Nobis
Engineering a Sustainable Future

EPA Region 1 RAC 2 Contract No. EP-S1-06-03

November 6, 2015
Nobis Project No. 80108

Via Electronic Submittal

U.S. Environmental Protection Agency
Attention: Mr. James Byrne, Task Order Project Officer
5 Post Office Square, Suite 100 (OSRR07-2)
Boston, Massachusetts 02109-3912

Subject: Transmittal of Draft Targeted Brownfields Assessment Report
Palmer Pointe, Barrington, Rhode Island
Targeted Brownfields Site Assessment
EPA Task Order No. 0108-SI-BZ-0100

Dear Mr. Byrne:

Enclosed is the Draft Targeted Brownfields Assessment Report for the above referenced Task Order.

Should you have any questions or comments, please contact me at (978) 703-6016, or dmcgrath@nobiseng.com.

Sincerely,

NOBIS ENGINEERING, INC.

Denis McGrath, C.H.M.M.
Project Manager

Enclosure

c: File 80108/MA

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Draft Targeted Brownfield Assessment Report

Palmer Pointe Site
Barrington, Rhode Island

Targeted Brownfields Site Assessment
EPA Task Order No. 0108-SI-BZ-0100

REMEDIAL ACTION CONTRACT
No. EP-S1-06-03

FOR

US Environmental Protection Agency
Region 1

BY

Nobis Engineering, Inc.

Nobis Project No. 80108

November 2015

U.S. Environmental Protection Agency

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BARRINGTON, RHODE ISLAND

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1.0 INTRODUCTION

This Targeted Brownfields Assessment (TBA) Report was prepared by Nobis Engineering, Inc. (Nobis) for the United States Environmental Protection Agency (EPA) under contract No. EP-S1-06-03, Task Order No. 0108-SI-BZ-0100. This TBA Report provides a summary of assessment and data collection activities conducted by Nobis at the Palmer Pointe Site (the Site), located at 91-97 Sowams Road in Barrington, Rhode Island. A Site Locus map is included as Figure 1.

This TBA Report was prepared in accordance with the EPA-approved Field Task Work Plan/Quality Assurance Project Plan Addendum (FTWP/QAPPA) for the Site, prepared by Nobis, submitted to EPA on September 18, 2015 and used to complete the Site activities. The objective of the TBA was to investigate Recognized Environmental Conditions (RECs) that were identified in a 2014 Phase I Environmental Site Assessment (ESA). The results of this TBA investigation were used to develop remedial recommendations and associated cost estimates.

2.0 KEY TEAM MEMBERS

This project team represents the individuals responsible for the stated tasks, but is subject to change. Jim Byrne is the EPA Task Order Project Officer (TOPO) and Cindy Gianfrancesco is the Principal Environmental Scientist for the Rhode Island Department of Environmental Management (RIDEM). Tracey Costa managed Nobis and subcontractor tasks and Heather Ford monitored project quality. Gail DeRuzzo coordinated with the analytical laboratories and managed data review activities. Adam Roy performed the implementation of all field activities as the Field Operations Leader (FOL). Spectrum Analytical, Inc. performed the soil and groundwater analyses. Drilex Environmental performed drilling services. TMD Services, Inc. provided private utility locating services.

3.0 BACKGROUND

The approximately 9.7-acre Site was formerly used as an agricultural nursery (from at least the 1980s through 2008). It is Nobis' understanding that the Site will be redeveloped in the near-future for residential housing.

3.1 Property Description

The property consists of six (6) contiguous parcels, identified by the Town of Barrington Assessor as Plat 28/Lots 72, 73, 246, 248, 249 and 263. The Site is located within a residential area of Barrington. The Site abuts residences to the north and south; Sowams Road to the west, with residences and an abandoned agricultural nursery beyond; and the Palmer River to the east. The Site contains a former office building in the western portion of the Site, and remnants of former greenhouse structures located throughout the Site. Access to the Palmer River is restricted by vegetative growth along the eastern portion of the Site, and by a gate located at the western entrance. Two (2) former irrigation wells are located in the western portion of the Site. Both metal and polyvinyl chloride (PVC) piping, which appear to have been used for irrigation, are present throughout the Site. A Site Plan showing soil and groundwater sampling locations is included as Figure 2.

3.2 Previous Environmental Assessment

Resource Control Associates, Inc. identified the following RECs in their 2014 Phase I ESA:

- Pesticides and/or herbicides were likely historically used and stored at the Site;
- Potential petroleum hydrocarbon impacts associated with above-ground storage tanks (ASTs) at residential buildings located at 91 and 97 Sowams Road. No records were located which suggest that a release of No. 2 fuel oil from these ASTs has occurred.

Based on the historical use of the property, the following are additional potential contaminant sources:

- Petroleum hydrocarbon storage and usage associated with nursery equipment.
- Lead arsenate may have been historically used as an herbicide. In addition, arsenic may be naturally-occurring.
- Solvents may have been used for equipment cleaning.
- Fertilizers historically used at the Site may have contained the following:

- Heavy metals.
- Fertilizers derived from tannery waste potentially contain chromium.
- Fertilizers derived from industrial waste may have contained polychlorinated biphenyls (PCBs).

Groundwater beneath the Site is classified as GA, which is to be suitable for drinking without treatment.

3.3 Contaminants of Concern

Based on historical site use and information presented in the Phase I ESA, the following contaminants of concern (COCs) were identified for this TBA investigation: volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), PCBs, and heavy metals.

4.0 SUMMARY OF INVESTIGATIONS

Nobis conducted a subsurface investigation at the Site from September 21 to October 1, 2015 to assess soil and groundwater conditions. Prior to drilling, Nobis marked proposed drilling locations with white spray paint pursuant to Massachusetts DIGSAFE requirements. Subsequently, Nobis contacted DIGSAFE for utility clearance. The DIGSAFE number assigned to this project was 20153705365.

A summary of soil and groundwater investigations performed by Nobis during the TBA is provided in the sections that follow.

4.1 Private Utility Survey

On September 21, 2015, TMD Services, Inc. conducted a survey of the Site to assess the presence of underground utilities. An underground electric utility was identified in the western portion of the Site (Figure 2).

4.2 Soil Boring Advancement and Soil Sampling

On September 22, 2015, Nobis located the proposed boring/well locations using a Trimble geographical positioning system (GPS) unit. The sample locations were positioned in accordance

with Section 8.10 of State of RIDEM Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, whereby, "A Performing Party may propose in the Remedial Action Work Plan to verify compliance by geometrically gridding the former Source Area and taking not less than twenty compliance samples for laboratory analysis at the intersecting points of the grid." Furthermore, the sampling design met Section 12 of the Regulations, Special Requirements for Managing Arsenic in Soil, *Subsection 12.02, Sampling Requirements.*

From September 28 to October 1, 2015, Nobis supervised the advancement of 24 soil borings at the Site (Figure 2). Drilex Environmental (Drilex) advanced the borings using a Geoprobe Model 6620 DT. Nobis collected continuous soil samples from the ground surface to the bottom of each boring using a 5-foot acetate sampler. The borings were advance to approximate depths ranging from 9.5 feet to 16 feet below grade surface (bgs) at which point refusal (probable bedrock) was encountered. Nobis classified the soils using the Modified Burmister method. The soils generally consisted of fine-to-coarse sand with varying amounts of silt and gravel. Nobis did not observe saturated overburden soils during overburden drilling activities, which suggests that overburden groundwater was not encountered during TBA investigation activities.

Nobis screened each soil sample for total VOCs (TVOCs) using a MiniRAE 3000 photoionization detector (PID) using the MassDEP soil headspace screening method. Soil classification and field-screening data were used to develop boring logs (Appendix A). Headspace readings did not exceed 1 part-per-million by volume (PPMV).

Nobis collected soil samples from shallow depths (0-2 feet bgs) to assess direct contact exposure, and at depth (5 to 16 feet bgs) from each boring (this interval was selected based on visual and olfactory evidence of contamination). Soil samples were placed into appropriate sample containers, stored on ice, and transported via courier under chain of custody to Eurofins Spectrum Analytical, Inc. (Spectrum) for laboratory analysis. The analytical methods used to analyze soil samples is summarized in the table below.

Analysis	Analytical Method
VOCs	SW-846 Method 8260C
SVOCs	SW-846 Method 8270D
Pesticides	SW-846 Method 8081B
PCBs	SW-846 Method 8082A
TPH-GRO, TPH-DRO	SW-846 Method 8015B Modified
Total Metals	SW-846 Methods 6010C/7471B
Hexavalent Chromium	SW-846 Methods 3060A/7196A
Cyanide	SW-846 Method 9012B

4.3 Temporary Monitoring Well Installation

On September 29, 2015, Drilex mobilized a truck-mounted drill rig (CME-75) to the site to advance borings into bedrock for the installation of temporary monitoring wells. Temporary monitoring well borings were advanced to the top of bedrock using 4¼-inch (inside diameter) hollow stem augers. From the top of bedrock, an air hammer was advanced to an approximate depth of 30 feet bgs (Figure 2). Bedrock groundwater was encountered in each temporary monitoring well location. A 2-inch diameter, schedule 40 poly vinyl chloride (PVC) monitoring well was installed in each borehole. Each well was constructed using 15 feet of 0.010-inch slotted PVC screen and 15 feet of solid PVC riser pipe. Temporary groundwater monitoring wells were allowed to equilibrate for 24-hours prior to collecting groundwater samples.

4.4 Groundwater Sampling

On September 28 and 29, 2015, Nobis collected groundwater samples from the two (2) former irrigation supply wells (Well-1 and Well-2). On September 30, 2015, Nobis collected groundwater samples from the temporary monitoring wells. Groundwater samples were collected using the EPA Region I Low Flow/Low Stress method as prescribed in the approved Quality Assurance Project Plan (QAPP). Nobis purged the temporary wells using a Geotech Model II peristaltic pump, and monitored groundwater depths and the thickness of non-aqueous phase liquids (NAPLs) (if present) using a Solinst® Model 122 electronic oil-water interface probe (0.01-foot accuracy). Depth to groundwater was measured at approximate depths ranging from 12.85 to 19.40 feet bgs. Nobis did not encounter NAPL in the wells from which samples were collected.

Groundwater purging rates varied between 100 to 400 milliliters per minute (ml/min). Discharge water was monitored for stabilization of field indicator parameters (i.e., pH, temperature, specific conductance, dissolved oxygen, and oxidation/reduction potential [ORP]) using a Yellow Springs

Instruments (YSI) multi-parameter sonde and flow-through cell. Turbidity was monitored using a HACH 2100Q turbidity meter.

Nobis recorded the geochemical data on data sheets (included in Appendix B). Upon completion of the well purging, Nobis disconnected the discharge line from the pump to the YSI flow cell, and samples were collected directly from the peristaltic pump discharge tube into pre-preserved containers provided by Spectrum. Following collection, Nobis placed the samples on ice in a cooler, logged on a chain-of-custody form, and transported to the laboratory by courier. Groundwater samples selected for dissolved metals analysis were field-filtered prior to filling the sample container. The analytical analysis performed on groundwater samples is summarized in the table below.

Analysis	Analytical Method
VOCs	SW-846 Method 8260C
Ethylene dibromide (EDB) and 1,2-dibromo-2chloropropane (DBCP)	SW-846 Method 8011
SVOCs	SW-846 Method 8270D
Pesticides	SW-846 Method 8081B
PCBs	SW-846 Method 8082A
TPH-GRO, TPH-DRO	SW-846 Method 8015B Modified
Total Metals	SW-846 Methods 6010C/7471B
Dissolved Metals	SW-846 Methods 6010C/7471B
Hexavalent Chromium	SW-846 Methods 3060A/7196A
Cyanide	SW-846 Method 9012B

4.5 Investigation Derived Wastes

No Investigation-derived wastes (IDW) were accumulated during Site activities. Excess solids extracted during soil boring advancement were used to backfill soil borings after sample collection activities, and excess liquid extracted during groundwater sampling was discharged to the ground adjacent to the monitoring well, in accordance with RIDEM Policy Memo 95-01, *Guidelines for the Management of Investigation Derived Wastes*.

5.0 SUMMARY OF SAMPLING RESULTS

This section provides a summary of the TBA soil and groundwater sampling results. Copies of laboratory analytical reports are included as Appendix C.

5.1 Soil Sample Results

Table 1 presents a complete summary of soil sample analytical results. Table 2 presents an evaluation of the soil sample arsenic analytical results. Nobis compared the soil sample results to RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure Criteria. To determine compliance with Section 12.03 of the RIDEM Remediation Regulations and assess if Site arsenic concentrations are deemed consistent with background levels (and be considered *non-jurisdictional* for arsenic), Nobis evaluated the following criteria:

a. No individual sample result from the data set shall be greater than 15 parts per million (ppm).
b. No greater than 10% of sample results from the data set shall exceed 7.0 ppm, and
c. The average of all sample results shall be 7.0 ppm or less.

The following is a summary of soil sample analytical results:

- **VOCs**: Referring to Table 1, low concentrations of acetone, 2-butanone, and methylene chloride (each common laboratory contaminants) were reported in several soil samples. None of the detections exceeded RIDEM criteria.

- **SVOCs**: Referring to Table 1, low concentrations of several SVOCs including polynuclear aromatic hydrocarbons (PAHs), benzoic acid, and phthalates were reported in soil samples. None of these concentrations exceeded RIDEM criteria.

- **Pesticides - Dieldrin**: Referring to Table 1 and Figure 4A, dieldrin was detected in ten (10) soil samples; however only samples from borings NOB-113, NOB-118, and NOB-121 located in the southern and southwestern portions of the Site, exceeded the RIDEM Residential Direct Exposure Criteria of 40 micrograms per kilogram (µg/kg) (at levels of 150 [µg/kg] and 97 µg/kg, respectively). The dieldrin exceedances appear limited to the shallow (e.g., 0-2 feet bgs) dataset, with lesser concentrations detected in deeper zones. Although these concentrations exceed the RIDEM Residential Direct Exposure criteria, the exceedances appear to be limited, and are relatively low. As such, they may not be indicative of a point source release, but rather from a former application of pesticides at the Site for agricultural purposes. The average dieldrin concentration across the entire soil

sample data set is 9.4 µg/kg (assuming full detection limit is calculated for non-detect results), which is less than 25 percent of the Residential Direct Exposure Criteria.

- **Other Pesticides**: Referring to Table 1, low concentrations of several pesticides including 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, chlordane, heptachlor epoxide, and delta-BHC were detected. Most of these additional pesticides do not have corresponding RIDEM criteria promulgated; however, these substances were detected below EPA Regional Screening Levels (RSL) for residential soil (where excess lifetime cancer risk is 1E-06 and the hazard index is 1.0).

- **PCBs**: Referring to Table 1, no PCBs were detected above reporting limits.

- **"Shallow" Data Set-Arsenic**: Referring to Tables 1 and 2 and Figure 3A, arsenic was prevalent throughout the Site in "shallow" soil (0-2 feet bgs), at concentrations ranging from non-detect to 11 milligrams per kilogram (mg/kg). The site-wide average arsenic concentration in shallow soil is 6.7 mg/kg, which is below the RIDEM Residential Direct Exposure Criteria threshold of 7.0 mg/kg. Ten (10) soil samples exceeded 7.0 ppm, which represent approximately 42% of the data set, indicating that the arsenic release to shallow soil may be considered *jurisdictional.* The following summary table presents criteria for evaluating compliance with Section 12.0 of the Rhode Island *Rules and Regulations for the Investigation and Remediation of Hazardous Materials*.

Compliance with RIDEM Remediation Regulations Section 12 – Shallow Soil Data Set	
Evaluation Criteria	**Compliance?**
No individual sample results from the data set shall be greater than 15 ppm	Yes
No greater than 10% of the sample results from the data set shall exceed 7.0 ppm.	No
The average of all sample results shall be 7.0 ppm or less.	Yes

- **"At Depth" Data Set-Arsenic**: Referring to Tables 1 and 2 and Figure 3B, arsenic was detected throughout the Site in "at depth" soil (5-15 feet bgs), at concentrations ranging from 3.7 to 11 mg/kg. The average arsenic concentration in at-depth soil is 8.1 mg/kg, which is above the RIDEM Residential Direct Exposure Criterion of 7.0 mg/kg. Fifteen (15) soil samples exceeded 7.0 ppm, which represents approximately 63% of the data set, indicating that the arsenic release to shallow soil may be considered *jurisdictional*. The following summary table presents criteria for evaluating compliance with Section 12.0 of

the Rhode Island *Rules and Regulations for the Investigation and Remediation of Hazardous Materials*.

Compliance with RIDEM Remediation Regulations Section 12 – At-Depth Soil Data Set	
Evaluation Criteria	**Compliance?**
No individual sample results from the data set shall be greater than 15 ppm	Yes
No greater than 10% of the sample results from the data set shall exceed 7.0 ppm.	No
The average of all sample results shall be 7.0 ppm or less.	No

- **Other Metals:** Referring to Table 1 and Figures 4A and 4B, concentrations of manganese were detected at levels ranging from 43 mg/kg to 2,500 mg/kg, with an average concentration of 279 mg/kg (across the entire soil data set). Seven (7) samples out of 51 exceeded the RIDEM Residential Direct Exposure Criterion of 390 mg/kg. These exceedances were detected along the middle-line of soil borings. Also, these exceedances were present at depths ranging between five (5) and 14 feet below grade. No exceedances were reported in near-surface soil samples.

5.2 Groundwater Sample Results

Referring to Table 2, all groundwater results were below State of Rhode Island and Providence RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 3, GA Groundwater Objectives. The samples represent only bedrock groundwater, as no overburden groundwater was encountered during the investigation.

Several metals were detected in groundwater samples at relatively low microgram per liter (µg/L) concentrations, with the exception of manganese. Manganese was detected in each of the groundwater samples at concentrations ranging from 67 µg/L in an unfiltered sample collected from temporary well NOB-121 to 4,500 µg/L in an unfiltered sample collected from Well-2. Neither RIDEM GA criteria nor EPA Primary Drinking Water Standards/Maximum Contaminant Levels (MCLs) have been promulgated. EPA has established a non-enforceable Secondary Drinking Water Standard for manganese of 50 µg/L. EPA established this secondary value to protect against poorly tasting, stained, or colored water. Additionally, the EPA RSL for manganese in tap water is 230 µg/L.

The highest manganese concentrations detected were collected from the 186-foot deep Well-2. A comparison of filtered and un-filtered groundwater samples did identify a significance difference

in concentrations, suggesting that much of the manganese is either soluble or colloidal. Although manganese concentrations in excess of RIDEM Residential Direct Exposure criteria were detected in subsurface soil (as deep as 14 feet below grade), no source of the manganese presence in bedrock could be readily identified. Another consideration may be that the soil and bedrock groundwater manganese concentrations may derive from host materials.

5.3 Data Validation

Nobis Engineering, Inc. performed a Tier I Modified data validation in accordance with the *Region I, EPA-NE Data Validation Functional Guidelines for Evaluating Environmental Analyses, December 1996 Criteria*, on the organic and inorganic analytical data for soil and groundwater samples collected at the Site by Nobis. A summary memorandum is included as Appendix D. A data validation report is being provided to EPA under separate cover. It has been determined that the data have achieved data quality objectives (DQO) and are deemed as usable.

6.0 REMEDIAL RECOMMENDATIONS AND COST ESTIMATE

Based on the findings of this investigation, Nobis concludes that:

- Organic compound contamination appears to be limited to discrete detections of dieldrin in near-surface soil at concentrations above RIDEM Residential Direct Exposure criteria;

- Inorganic substance contamination includes detections of arsenic and manganese in soil samples, and manganese detections in bedrock groundwater samples. The arsenic concentrations may be considered jurisdictional by RIDEM.

If the arsenic concentrations are determined to be jurisdictional, remedial options to address it are identified in Section 12.04 of the regulations, and are as-follows:

1. Excavation and removal of all contaminated soil with proposed confirmation sampling;

2. Encapsulation of existing soils with 6 inches minimum of clean soil that has arsenic levels less than 7.0 parts per million, preventing erosion with adequate vegetation and/or mulch, and recording of an appropriate Environmental Land Use Restriction (ELUR) to maintain said engineering controls;

3. Encapsulation of existing soils with a minimum of three (3) inches of asphalt or concrete, and recording of appropriate ELUR to maintain said engineering controls;

4. Soil blending or tilling of wet/damp soil, with re-sampling per Rule 12.02 to determine compliance with the standard;

5. Phytoremediation with re-sampling per Rule 12.02 to determine compliance with the standard; and a site-specific remediation plan that has been reviewed and approved in writing by the Department.

If the arsenic contamination is considered jurisdictional, Nobis recommends a combination of remedial options 2 and 3 such that the following is accomplished:

- In areas to be redeveloped as vegetated or landscaped open-space, a 6-inch layer of clean topsoil should be placed over existing Site soil;

- In areas proposed to contain structures, a minimum 3-inch thick concrete slab should be poured throughout the structure's basement to prevent direct contact with Site soil;

- In areas containing driveways, walkways, and streets, placement of at least three (3) inches of pavement or concrete in these areas to prevent direct contact with Site soil; and

- Placement of an ELUR on impacted property to prevent (without proper notification to regulators) excavation or exposure of Site soil, to prevent removal or other movement of engineering controls (e.g., floor slabs, paved roads, walkways, and driveways), and to prevent the drilling of drinking water supply wells on the property due to the presence of elevated manganese concentrations in bedrock groundwater.

Nobis recommends shallow excavation of dieldrin-impacted soil. The limit of the exaction is not known and additional investigation may be required to substantiate the nature and extent of this contamination; however, for estimating purposes Nobis assumes that a two (2) 25-foot by 25-foot by 3-foot deep excavations may be required.

The following provides an approximate remedial cost estimate (assuming state-implemented administrative filing/review fees are waived):

Work Phase	Cost Element	Quantity	Unit	Unit Cost	Extended Cost
Dieldrin Excavation	Nature & extent evaluation	1	Lump	$20,000	$20,000
	Mobilization/demobilization, excavation, stockpile, loading, transportation, disposal, backfill, and grading	250	Ton	$100	$25,000
	Waste characterization	1	Lump	$1,000	$1,000
	Backfill analysis (full suite)	1	Lump	$1,000	$1,000
	Field engineer oversight	2	Day	$1,000	$2,000
	Confirmation sampling (pesticides only)	10	Sample	$70	$700
Arsenic Remedy (1)	Cover material analysis	10	Ea.	$1,000	$10,000
	Cover material placement – includes topsoil, loader, small dozer, operators, superintendent, grade foreman, laborer	3,000	CY	$45	$135,000
	Field engineer oversight	7	Days	$1,000	$7,000
ELUR Establishment	Class I Survey (assumed completed as part of the development)	1	Lump	$5,000	$5,000
	ELUR Legal Preparation, Deed Filing/Registration - 1 parcel	1	Lump	$7,000	$7,000
Misc. Fees	RIDEM Remedial Action Work Plan Approval Application Fee	1	Lump	$1,000	$1,000
				SUBTOTAL:	$214,700
Engineering support	Engineering support to provide remedial action work plan, sampling/analysis plan or QAPP, soil management plan, documentation deliverables, and on-call engineering services – assume 15% of project costs	1	Lump	$32,205	$32,205
Scope Contingency	Assume 10% scope contingency and 10% bid contingency	1	Lump	$42,940	$42,940
				TOTAL:	**$289,845**

Notes:

1 - The placement of the 6-inch topsoil cover does not include placement of landscaping features such as mulch, or grass-seeding.

- The volume of cover material required is based on the conceptual design layout. Only areas designated as green or open-space were included in the cover-system analysis. Building slabs, paved roads, sidewalks, driveways, and walking paths were not included in the estimate as the regulation allows for these materials to serve as sufficient cover. No construction costs for building slabs, roads, sidewalks, driveways, or walking paths were included in this estimate.

Long-term operations, maintenance, and inspection costs are not included for this remedial action. It is expected that costs to maintain the engineering control systems and to periodically inspect it will be required until the contamination is in some way mitigated.

TABLES

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-101		NOB-101		NOB-115		NOB-115		NOB-114		NOB-114		NOB-116		NOB-116		NOB-117		NOB-117		NOB-118		NOB-118	
					Laboratory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D		P1453-10D		P1453-11D		P1453-12D	
					Sample Depth (ft bgs)	0-2		8-10		0-2		10-12		0-2		8-10		0-2		11-13		0-2		5-7		0-2		10-12	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Volatile Organic Compounds																													
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***5.0***	***U***	***3.3***	***U***	***4.4***	***U***	***3.9***	***U***	***3.4***	***U***	***4.6***	***U***	***3.4***	***U***	***3.8***	***U***	***3.6***	***U***	***3.3***	***U***	***3.7***	***U***	***3.0***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	4.6	
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-101		NOB-101		NOB-115		NOB-115		NOB-114		NOB-114		NOB-116		NOB-116		NOB-117		NOB-117		NOB-118		NOB-118	
					Laboratory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D		P1453-10D		P1453-11D		P1453-12D	
					Sample Depth (ft bgs)	0-2		8-10		0-2		10-12		0-2		8-10		0-2		11-13		0-2		5-7		0-2		10-12	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	CAS #	Method	Report Units	RIDEM Residential Direct Exposure Criteria[1]	RIDEM GA Leachability Criteria[2]																								
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	10	U	6.7	U	8.9	U	7.7	U	6.9	U	9.1	U	6.8	U	7.5	U	7.3	U	6.7	U	7.3	U	5.9	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U	3.3	U	3.7	U	3.0	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-101		NOB-101		NOB-115		NOB-115		NOB-114		NOB-114		NOB-116		NOB-116		NOB-117		NOB-117		NOB-118		NOB-118	
					Laboratory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D		P1453-10D		P1453-11D		P1453-12D	
					Sample Depth (ft bgs)	0-2		8-10		0-2		10-12		0-2		8-10		0-2		11-13		0-2		5-7		0-2		10-12	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Semivolatile Organic Compounds																													
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U	720	U	690	U	720	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U	720	U	690	U	720	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U	720	U	690	U	720	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U	720	U	690	U	720	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U	720	U	690	U	720	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U	720	U	690	U	720	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U	720	U	690	U	720	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	360	U	370	U	75	J	370	U	350	U	340	U	120	J	370	U	370	U	350	U	340	U	350	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	360	U	370	U	370	U	370	U	350	U	340	U	110	J	370	U	370	U	350	U	340	U	350	U
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	92	J	370	U	94	J	370	U	350	U	340	U	160	J	370	U	370	U	350	U	340	U	350	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	150	J	750	U	750	U	760	U	720	U	690	U	750	U	740	U	100	J	720	U	690	U	720	U
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-101		NOB-101		NOB-115		NOB-115		NOB-114		NOB-114		NOB-116		NOB-116		NOB-117		NOB-117		NOB-118		NOB-118	
					Laboratory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D		P1453-10D		P1453-11D		P1453-12D	
					Sample Depth (ft bgs)	0-2		8-10		0-2		10-12		0-2		8-10		0-2		11-13		0-2		5-7		0-2		10-12	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	86	J	370	U	110	J	370	U	350	U	340	U	140	J	370	U	370	U	350	U	340	U	350	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	170	J	130	J	120	J	190	J	130	J	340	U	370	U	110	J	140	J	84	J	130	J	170	J
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	120	J	370	U	160	J	370	U	350	U	340	U	190	J	370	U	77	J	350	U	340	U	350	U
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U	720	U	690	U	720	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	360	U	370	U	160	J	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U	350	U	340	U	350	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	120	J	370	U	190	J	370	U	350	U	340	U	200	J	370	U	76	J	350	U	340	U	350	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-101		NOB-101		NOB-115		NOB-115		NOB-114		NOB-114		NOB-116		NOB-116		NOB-117		NOB-117		NOB-118		NOB-118	
					Laboratory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D		P1453-10D		P1453-11D		P1453-12D	
					Sample Depth (ft bgs)	0-2		8-10		0-2		10-12		0-2		8-10		0-2		11-13		0-2		5-7		0-2		10-12	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Pesticides/PCBs																													
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	3.4	J	3.7	U	18		3.7	U	2.0	J	3.5	U	3.7	U	3.7	U	3.8	U	3.5	U	110		14	
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	16		3.7	U	46		3.7	U	16		3.5	U	7.5		3.7	U	4.4		3.5	U	39		3.6	J
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	6.8		3.7	U	15		3.7	U	4.0		3.5	U	2.8	J	3.7	U	2.7	J	3.5	U	35	U	7.1	U
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	18	U	3.7	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	18	U	3.7	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	2.8	J	1.9	U	15		1.9	U	2.0	J	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	270		37	
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	18	U	3.7	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	1.0	J	1.9	U	3.8	U	1.9	U	1.0	J	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	18	U	3.7	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U	3.5	U	**150**		19	
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	18	U	3.7	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U	3.5	U	35	U	7.1	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U	3.5	U	35	U	7.1	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U	3.5	U	35	U	7.1	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U	3.5	U	35	U	7.1	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U	3.5	U	35	U	7.1	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	18	U	3.7	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	1.0	J	1.9	U	3.9		1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	160		20	
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	18	U	3.7	U
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U	1.8	U	43		4.2	
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	18	U	19	U	38	U	19	U	19	U	18	U	19	U	19	U	19	U	18	U	180	U	37	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	180	U	190	U	380	U	190	U	190	U	180	U	190	U	190	U	190	U	180	U	1800	U	370	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U	35	U	35	U	36	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U	35	U	35	U	36	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U	35	U	35	U	36	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U	35	U	35	U	36	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U	35	U	35	U	36	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U	35	U	35	U	36	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U	35	U	35	U	36	U
Total Petroleum Hydrocarbons																													
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2800	U	2400	U	1800	U	2100	U	2000	U	2200	U	2100	U	2500	U	2900	U	2400	U	2000	U	2700	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/Kg	NE	NE	22		28		7.8	U	10		9.9		7.4	U	33		7.7	U	15		8.5		26		12	

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

Parameter	CAS #	Method	Report Units	RIDEM Residential Direct Exposure Criteria[1]	RIDEM GA Leachability Criteria[2]	NOB-101		NOB-101		NOB-115		NOB-115		NOB-114		NOB-114		NOB-116		NOB-116		NOB-117		NOB-117		NOB-118		NOB-118	
					Laboratory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D		P1453-10D		P1453-11D		P1453-12D	
					Sample Depth (ft bgs)	0-2		8-10		0-2		10-12		0-2		8-10		0-2		11-13		0-2		5-7		0-2		10-12	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Metals and Cyanide																													
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.59	J	1.4	J	0.57	J	1.2	J	0.77	J	1.6	J	0.59	J	1.3	J	0.82	J	0.76	J	0.94	J	0.87	J
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	6.6		**7.5**		**7.4**		**9.5**		**9.4**		**11**		6.8		**9.0**		**12**		5.9		**9.4**		**7.0**	
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	14	J	38	J	16	J	16	J	20	J	25	J	45	J	17	J	43	J	14	J	28	J	26	J
Beryllium	7440-41-7	SW6010	mg/Kg	1.5	NE	0.28		0.27		0.36		0.33		0.44		0.41		0.41		0.34		0.52		0.33		0.53		0.42	
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.054	J	0.24	U	0.064	J	0.26	U	0.077	J	0.14	J	0.11	J	0.029	J	0.70		0.079	J	0.12	J	0.031	J
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	4.7		8.7		5.7		9.7		6.3		17		9.0		9.8		7.5		5.6		7.4		14	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	8.7		16		13		30		11		51		11		25		15		8.3		12		13	
Lead	7439-92-1	SW6010	mg/Kg	150	NE	24		11		25		30		35		20		86		10		92		6.6		36		13	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	130		150		160		**500**		100		**2500**		100		310		160		300		180		310	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	4.2		8.2		4.7		19		4.3		27		3.7		16		5.8		8.5		5.1		9.8	
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	1.4	U	0.62	J	1.3	U	1.6	U	1.1	U	1.2	J	1.4	U	1.4	U	0.64	J	1.5	U	1.5	U	1.4	U
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.4	U	1.4	U	1.3	U	1.6	U	1.1	U	1.4	U	1.4	U	1.4	U	1.3	U	1.5	U	1.5	U	1.4	U
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	0.85	J	1.4		1.1		0.91	J	1.2		0.94	U	0.84	J	1.1		1.6		0.73	J	1.6		1.3	
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	8.6		8.6		11		9.3		14		11		12		9.1		15		8.4		15		11	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	22		25		32		51		24		63		39		42		160		62		28		28	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.3	U	4.5	U	4.5	U	4.5	U	4.4	U	4.2	U	4.5	U	4.4	U	4.6	U	4.3	U	4.2	U	4.3	U
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.098		0.0033	J	0.071		0.041	U	0.14		0.039	U	0.082		0.038	U	0.092		0.0063	J	0.056		0.013	J
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.474	U	0.471	U	0.559	U	0.432	U	0.498	U	0.504	U	0.537	U	0.533	U	0.555	U	0.524	U	0.479	U	0.513	U

Notes

1. State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, November, 2011, Table 1, Residential Direct Exposure Criteria.

2. RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA
3. **BOLD - Reporting Limit exceeds Table 1 Regulatory Limit**
4. **Bold /Shaded - Result exceeds Table 1 Regulatory Limit**
5. ***BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit***
6. ***Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit***
7. U: Analyte not detected above Regulatory Limit
8. NE: No Regulatory Limit for analyte
9. J: Analyte is J-qualified
10. Arsenic-No indvidual sample results exceeds 15 mg/kg (ppm)

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	TRIP BLANK-02		NOB-105		NOB-104		NOB-104		NOB-103		NOB-103		NOB-102		NOB-102		TRIP BLANK		NOB-113		NOB-113		NOB-121	
					Laboratory ID	P1453-13A		P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D		P1456-06D		P1456-07D		P1456-08A		P1456-09D		P1456-10D		P1456-11D	
					Sample Depth (ft bgs)			7-9		0-2		7-9		0-2		13-15		0-2		7-9				0-2		12-14		0-2	
					Sample Collection Date	09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Volatile Organic Compounds																													
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***5.0***	***U***	***3.9***	***U***	***4.1***	***U***	***3.7***	***U***	***3.4***	***U***	***3.9***	***U***	***5.6***	***U***	***3.7***	***U***	***5.0***	***U***	***4.2***	***U***	***3.5***	***U***	***3.8***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	TRIP BLANK-02		NOB-105		NOB-104		NOB-104		NOB-103		NOB-103		NOB-102		NOB-102		TRIP BLANK		NOB-113		NOB-113		NOB-121	
					Laboratory ID	P1453-13A		P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D		P1456-06D		P1456-07D		P1456-08A		P1456-09D		P1456-10D		P1456-11D	
					Sample Depth (ft bgs)			7-9		0-2		7-9		0-2		13-15		0-2		7-9				0-2		12-14		0-2	
					Sample Collection Date	09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	17		3.9	U	4.1	U	3.7	U	3.6		3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	10	U	7.8	U	8.2	U	7.3	U	6.9	U	7.9	U	11	U	7.5	U	10	U	8.4	U	7.0	U	7.5	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	TRIP BLANK-02	NOB-105		NOB-104		NOB-104		NOB-103		NOB-103		NOB-102		NOB-102		TRIP BLANK	NOB-113		NOB-113		NOB-121	
					Laboratory ID	P1453-13A	P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D		P1456-06D		P1456-07D		P1456-08A	P1456-09D		P1456-10D		P1456-11D	
					Sample Depth (ft bgs)		7-9		0-2		7-9		0-2		13-15		0-2		7-9			0-2		12-14		0-2	
					Sample Collection Date	09/29/2015	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/29/2015	09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																						
Semivolatile Organic Compounds																											
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000		360	U	**440**	U	330	U	340	U	**420**	U	400	U	350	U	--	370	U	340	U	370	U
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	TRIP BLANK-02	NOB-105		NOB-104		NOB-104		NOB-103		NOB-103		NOB-102		NOB-102		TRIP BLANK	NOB-113		NOB-113		NOB-121	
					Laboratory ID	P1453-13A	P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D		P1456-06D		P1456-07D		P1456-08A	P1456-09D		P1456-10D		P1456-11D	
					Sample Depth (ft bgs)		7-9		0-2		7-9		0-2		13-15		0-2		7-9			0-2		12-14		0-2	
					Sample Collection Date	09/29/2015	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/29/2015	09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																						
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE		360	U	**440**	U	330	U	340	U	**420**	U	400	U	350	U	--	370	U	340	U	370	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE		360	U	**440**	U	330	U	340	U	**420**	U	400	U	350	U	--	370	U	340	U	370	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE		200	J	160	J	140	J	130	J	100	J	140	J	110	J	--	130	J	140	J	190	J
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE		360	U	**440**	U	330	U	340	U	**420**	U	400	U	350	U	--	370	U	340	U	370	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100		740	U	900	U	670	U	680	U	850	U	820	U	710	U	--	760	U	700	U	750	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE		360	U	440	U	330	U	340	U	420	U	400	U	350	U	--	370	U	340	U	370	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	TRIP BLANK-02	NOB-105		NOB-104		NOB-104		NOB-103		NOB-103		NOB-102		NOB-102		TRIP BLANK	NOB-113		NOB-113		NOB-121	
					Laboratory ID	P1453-13A	P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D		P1456-06D		P1456-07D		P1456-08A	P1456-09D		P1456-10D		P1456-11D	
					Sample Depth (ft bgs)		7-9		0-2		7-9		0-2		13-15		0-2		7-9			0-2		12-14		0-2	
					Sample Collection Date	09/29/2015	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/29/2015	09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																						
Pesticides/PCBs																											
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE		3.8	U	4.4	U	3.4	U	3.5	U	4.3	U	4.2	U	3.6	U		4.9		3.5	U	62	
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE		3.8	U	37		3.4	U	12		4.3	U	14		3.6	U		16		3.5	U	22	J
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE		3.8	U	31		3.4	U	8.9		4.3	U	16		3.6	U		11		3.5	U	37	U
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE		1.9	U	2.3	U	1.7	U	1.8	U	2.2	U	2.1	U	1.9	U		1.9	U	1.8	U	19	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE		1.9	U	2.3	U	1.7	U	1.8	U	2.2	U	2.1	U	1.9	U		1.9	U	1.8	U	19	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400		1.9	U	8.6		1.7	U	2.7		2.2	U	3.2		1.9	U		3.6		1.8	U	130	J
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE		1.9	U	1.4	J	1.7	U	1.0	J	2.2	U	2.1	U	1.9	U		1.9	U	1.8	U	19	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE		1.9	U	2.3	U	1.7	U	1.8	U	2.2	U	2.1	U	1.9	U		1.4	J	1.8	U	19	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE		3.8	U	4.4	U	3.4	U	3.5	U	4.3	U	4.2	U	3.6	U		2.0	J	3.5	U	**97**	
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE		1.9	U	2.3	U	1.7	U	1.8	U	2.2	U	2.1	U	1.9	U		1.9	U	1.8	U	19	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE		3.8	U	4.4	U	3.4	U	3.5	U	4.3	U	4.2	U	3.6	U		3.7	U	3.5	U	37	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE		3.8	U	4.4	U	3.4	U	3.5	U	4.3	U	4.2	U	3.6	U		3.7	U	3.5	U	37	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE		3.8	U	5.2		3.4	U	3.5	U	4.3	U	2.1	J	3.6	U		3.7	U	3.5	U	37	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE		3.8	U	4.4	U	3.4	U	3.5	U	4.3	U	4.2	U	3.6	U		3.7	U	3.5	U	37	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE		3.8	U	4.4	U	3.4	U	3.5	U	4.3	U	4.2	U	3.6	U		3.7	U	3.5	U	37	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE		1.9	U	2.3	U	1.7	U	1.8	U	2.2	U	2.1	U	1.9	U		1.9	U	1.8	U	19	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400		1.9	U	4.8		1.7	U	2.2		2.2	U	1.9	J	1.9	U		2.1		1.8	U	85	
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE		1.9	U	2.3	U	1.7	U	1.8	U	2.2	U	2.1	U	1.9	U		1.9	U	1.8	U	19	U
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE		1.9	U	1.2	J	1.7	U	1.8	U	2.2	U	2.1	U	1.9	U		1.9	U	1.8	U	15	J
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE		19	U	23	U	17	U	18	U	22	U	21	U	19	U		19	U	18	U	190	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE		190	U	230	U	170	U	180	U	220	U	210	U	190	U		190	U	180	U	1900	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000		37	U	44	U	34	U	35	U	43	U	41	U	35	U		37	U	35	U	37	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000		37	U	44	U	34	U	35	U	43	U	41	U	35	U		37	U	35	U	37	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000		37	U	44	U	34	U	35	U	43	U	41	U	35	U		37	U	35	U	37	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000		37	U	44	U	34	U	35	U	43	U	41	U	35	U		37	U	35	U	37	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000		37	U	44	U	34	U	35	U	43	U	41	U	35	U		37	U	35	U	37	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000		37	U	44	U	34	U	35	U	43	U	41	U	35	U		37	U	35	U	37	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000		37	U	44	U	34	U	35	U	43	U	41	U	35	U		37	U	35	U	37	U
Total Petroleum Hydrocarbons																											
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE		2400	U	3100	U	2300	U	2100	U	3100	U	2800	U	2000	U		2600	U	2000	U	2000	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/Kg	NE	NE		20		22		11		13		13		20		12			35		15		19	

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	TRIP BLANK-02	NOB-105		NOB-104		NOB-104		NOB-103		NOB-103		NOB-102		NOB-102		TRIP BLANK	NOB-113		NOB-113		NOB-121	
					Laboratory ID	P1453-13A	P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D		P1456-06D		P1456-07D		P1456-08A	P1456-09D		P1456-10D		P1456-11D	
					Sample Depth (ft bgs)		7-9		0-2		7-9		0-2		13-15		0-2		7-9			0-2		12-14		0-2	
					Sample Collection Date	09/29/2015	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/29/2015	09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																						
Metals and Cyanide																											
Antimony	7440-36-0	SW6010	mg/Kg	10	NE		1.4	J	0.68	J	0.59	J	0.78	J	1.7	J	0.77	J	1.1	J		0.83	J	2.2	J	0.87	J
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE		**11**		5.5		3.7		4.9		**8.7**		**8.2**		6.6			**11**		**13**		**7.5**	
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE		21	J	12	J	10	J	11	J	44	J	15	J	20	J		20	J	20	J	19	J
Beryllium	7440-41-7	SW6010	mg/Kg	1.5	NE		0.22	J	0.40		0.26		0.35		0.71		0.40		0.38			0.47		0.32		0.44	
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE		0.26	U	0.23	U	0.23	U	0.26	U	0.27	U	0.023	J	0.23	U		0.036	J	0.14	J	0.074	J
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE		11		5.4		3.3		5.1		12		5.9		6.0			6.4		13		6.9	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE		14		5.1		5.2		6.9		14		9.3		12			9.0		30		9.0	
Lead	7439-92-1	SW6010	mg/Kg	150	NE		18		11		4.0		7.8		9.8		13		6.9			35		15		16	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE		170		98		120		190		330		280		210			120		**450**		170	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE		14	J	4.5	J	4.6	J	6.5	J	12	J	7.4	J	8.3	J		5.2	J	35	J	6.6	J
Selenium	7782-49-2	SW6010	mg/Kg	390	NE		1.6	U	1.4	U	1.4	U	1.6	U	0.70	J	1.3	U	1.4	U		1.6	U	1.5	U	0.59	J
Silver	7440-22-4	SW6010	mg/Kg	200	NE		1.6	U	1.4	U	1.4	U	1.6	U	1.6	U	1.3	U	1.4	U		1.6	U	1.5	U	1.2	U
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE		0.98	J	1.4		0.52	J	0.96	J	1.9		1.1		1.1			1.4		1.3		1.3	
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE		8.4		12		4.6		8.2		18		11		8.0			13		11		12	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE		31		16		14		18		35		23		25			24		72		26	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE		4.6	UJ	5.4	UJ	4.1	UJ	4.2	UJ	5.2	UJ	5.1	UJ	4.4	UJ		4.5	UJ	4.3	UJ	4.2	UJ
Mercury	7439-97-6	SW7471	mg/Kg	23	NE		0.0030	J	0.023	J	0.039	U	0.013	J	0.0034	J	0.020	J	0.041	U		0.12		0.0031	J	0.030	J
Cyanide	57-12-5	SW9012	mg/Kg	200	NE		0.517	U	0.557	U	0.593	U	0.532	U	0.575	U	0.525	U	0.535	U		0.550	U	0.522	U	0.575	U

Notes

1. State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, November, 2011, Table 1, Residential Direct Exposure Criteria.
2. RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA
3. **BOLD - Reporting Limit exceeds Table 1 Regulatory Limit**
4. **Bold /Shaded - Result exceeds Table 1 Regulatory Limit**
5. ***BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit***
6. ***Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit***
7. U: Analyte not detected above Regulatory Limit
8. NE: No Regulatory Limit for analyte
9. J: Analyte is J-qualified
10. Arsenic-No indvidual sample results exceeds 15 mg/kg (ppm)

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-121		NOB-106		NOB-106		FD-03		NOB-107		NOB-107		NOB-105		NOB-124		NOB-124		NOB-112		NOB-112		NOB-120	
					Laboratory ID	P1456-12D		P1456-13D		P1456-14D		P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Depth (ft bgs)	12-14		0-2		12-14				0-2		14-16		0-2		0-2		7-9		0-2		12-14		0-2	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Volatile Organic Compounds																													
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***4.2***	***U***	***4.0***	***U***	***4.7***	***U***	***3.7***	***U***	***4.0***	***U***	***4.3***	***U***	***4.5***	***U***	***3.7***	***U***	***3.3***	***U***	***4.0***	***U***	***4.4***	***U***	***4.1***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	3.9	J	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	3.0	J	4.1	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-121		NOB-106		NOB-106		FD-03		NOB-107		NOB-107		NOB-105		NOB-124		NOB-124		NOB-112		NOB-112		NOB-120	
					Laboratory ID	P1456-12D		P1456-13D		P1456-14D		P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Depth (ft bgs)	12-14		0-2		12-14				0-2		14-16		0-2		0-2		7-9		0-2		12-14		0-2	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	8.4	U	8.0	U	9.4	U	7.5	U	7.9	U	8.6	U	9.1	U	7.5	U	6.5	U	8.1	U	8.8	U	8.1	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	4.2	U	4.0	U	4.7	U	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-121		NOB-106		NOB-106		FD-03		NOB-107		NOB-107		NOB-105		NOB-124		NOB-124		NOB-112		NOB-112		NOB-120	
					Laboratory ID	P1456-12D		P1456-13D		P1456-14D		P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Depth (ft bgs)	12-14		0-2		12-14				0-2		14-16		0-2		0-2		7-9		0-2		12-14		0-2	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Semivolatile Organic Compounds																													
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	180	J	680	U	740	U
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-121		NOB-106		NOB-106		FD-03		NOB-107		NOB-107		NOB-105		NOB-124		NOB-124		NOB-112		NOB-112		NOB-120	
					Laboratory ID	P1456-12D		P1456-13D		P1456-14D		P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Depth (ft bgs)	12-14		0-2		12-14				0-2		14-16		0-2		0-2		7-9		0-2		12-14		0-2	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	400	U	360	U	390	U	360	U	360	U	74	J	370	U	350	U	330	U	370	U	340	U	360	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	190	J	180	J	180	J	100	J	200	J	110	J	140	J	280	J	390		310	J	530		250	J
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	820	U	730	U	790	U	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	400	U	360	U	390	U	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-121		NOB-106		NOB-106		FD-03		NOB-107		NOB-107		NOB-105		NOB-124		NOB-124		NOB-112		NOB-112		NOB-120	
					Laboratory ID	P1456-12D		P1456-13D		P1456-14D		P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Depth (ft bgs)	12-14		0-2		12-14				0-2		14-16		0-2		0-2		7-9		0-2		12-14		0-2	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Pesticides/PCBs																													
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	4.0	U	3.6	U	3.9	U	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	4.0	U	15		3.9	U	14		52		3.6	U	33		3.6	U	3.4	U	8.3		3.4	U	3.7	U
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	4.0	U	12		3.9	U	10		37		3.6	U	30		3.6	U	3.4	U	4.6		3.4	U	3.7	U
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	2.1	U	1.8	U	2.0	U	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	2.1	U	1.8	U	2.0	U	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	4.7		4.7		2.0	U	4.7		12		1.9	U	7.5		1.8	U	1.8	U	1.9	U	1.8	U	3.0	J
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	2.1	U	1.8	U	2.0	U	1.8	U	1.8	U	1.9	U	1.2	J	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	2.1	U	1.8	U	2.0	U	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.2	J	1.8	U	1.9	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	3.5	J	3.6	U	3.9	U	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	5.8	
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	2.1	U	1.8	U	2.0	U	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	4.0	U	3.6	U	3.9	U	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	4.0	U	3.6	U	3.9	U	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	4.0	U	2.3	J	3.9	U	2.6	J	7.4		3.6	U	4.4		3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	4.0	U	3.6	U	3.9	U	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	4.0	U	3.6	U	3.9	U	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	2.1	U	1.8	U	2.0	U	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	4.3		3.4		2.0	U	3.9		8.3		1.9	U	5.7		1.8	U	1.8	U	1.9	U	1.8	U	1.7	J
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	2.1	U	1.8	U	2.0	U	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	2.1	U	1.8	U	2.0	U	1.8	U	1.2	J	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	21	U	18	U	20	U	18	U	18	U	19	U	19	U	18	U	18	U	19	U	18	U	19	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	210	U	180	U	200	U	180	U	180	U	190	U	190	U	180	U	180	U	190	U	180	U	190	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	40	U	36	U	39	U	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	40	U	36	U	39	U	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	40	U	36	U	39	U	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	40	U	36	U	39	U	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	40	U	36	U	39	U	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	40	U	36	U	39	U	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	40	U	36	U	39	U	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Total Petroleum Hydrocarbons																													
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2800	U	2100	U	2300	U	2200	U	2100	U	2500	U	2900	U	1900	U	1900	U	2300	U	2300	U	2300	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/Kg	NE	NE	14		17		21		25		27		12		24		7.5	U	7.2	U	9.4		7.5		7.8	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

Parameter	CAS #	Method	Report Units	RIDEM Residential Direct Exposure Criteria[1]	RIDEM GA Leachability Criteria[2]	NOB-121		NOB-106		NOB-106		FD-03		NOB-107		NOB-107		NOB-105		NOB-124		NOB-124		NOB-112		NOB-112		NOB-120	
					Laboratory ID	P1456-12D		P1456-13D		P1456-14D		P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Depth (ft bgs)	12-14		0-2		12-14				0-2		14-16		0-2		0-2		7-9		0-2		12-14		0-2	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Metals and Cyanide																													
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	1.0	J	0.69	J	1.5	J	0.57	J	0.72	J	2.0	J	0.79	J	0.90	U	0.89	U	1.1	U	0.77	U	0.83	U
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	6.7		5.2		**11**		5.9		**7.1**		**11**		6.2		0.90	U	5.1		**9.5**		**8.0**		6.3	
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	18	J	9.6	J	15	J	9.3	J	15	J	9.3	J	11	J	13	J	25	J	19		15		14	
Beryllium	7440-41-7	SW6010	mg/Kg	1.5	NE	0.20	J	0.29		0.26		0.32		0.39		0.44		0.33		0.16	J	0.49		0.45		0.26		0.42	
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.22	U	0.24	U	0.017	J	0.24	U	0.025	J	0.28		0.24	U	0.026	J	0.22	U	0.27	U	0.19	U	0.21	U
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	9.7		5.0		12		5.1		6.0		22		5.9		2.6		8.6		8.3		7.2		7.7	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	12		7.4		27		6.8		9.2		49		7.0		6.4		15		19		23		12	
Lead	7439-92-1	SW6010	mg/Kg	150	NE	9.3		7.5		15		8.6		19		38		9.5		5.2		9.0		24		7.5		8.4	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	160		140		220		120		150		310		160		83		**400**		160		320		250	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	9.6	J	5.7	J	18	J	5.6	J	6.0	J	37	J	5.5	J	3.5		13		8.1		12		11	
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	1.3	U	1.5	U	1.5	U	1.5	U	1.3	U	1.4	U	1.4	U	4.0		1.3	U	1.6	U	1.1	U	1.2	U
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.3	U	1.5	U	1.5	U	1.5	U	1.3	U	1.4	U	1.4	U	0.56	J	1.3	U	1.6	U	1.1	U	1.2	U
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	0.67	J	0.66	J	0.88	J	1.2		1.2		0.53	J	1.0		0.25	J	0.89	U	1.1	U	0.77	U	0.83	U
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	6.6		8.0		9.2		8.7		11		14		8.9		4.8		11		16		8.3		12	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	25		17		44		17		21		95		19		12		33		26		29		25	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.9	UJ	4.3	UJ	4.5	UJ	4.3	UJ	4.3	UJ	4.4	UJ	4.4	UJ	4.0	UJ	4.1	UJ	4.3	UJ	4.0	UJ	4.3	UJ
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.0039	J	0.015	J	0.041	U	0.016	J	0.028	J	0.041	U	0.024	J	0.0055	J	0.040	U	0.046	J	0.039	U	0.011	J
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.528	U	0.596	U	0.437	U	0.494	U	0.509	U	0.545	U	0.547	U	0.460	U	0.462	U	0.472	U	0.448	U	0.479	U

Notes

1. State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, November, 2011, Table 1, Residential Direct Exposure Criteria.

2. RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA

3. **BOLD - Reporting Limit exceeds Table 1 Regulatory Limit**

4. **Bold /Shaded - Result exceeds Table 1 Regulatory Limit**

5. ***BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit***

6. ***Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit***

7. U: Analyte not detected above Regulatory Limit

8. NE: No Regulatory Limit for analyte

9. J: Analyte is J-qualified

10. Arsenic-No indvidual sample results exceeds 15 mg/kg (ppm)

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-120		NOB-119		NOB-119		NOB-122		NOB-122		DUP-02		NOB-123		NOB-123		NOB-108		NOB-108		NOB-109		NOB-109	
					Laboratory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D		P1467-15D		P1467-16D		P1467-17D	
					Sample Depth (ft bgs)	8-10		0-2		5-7		0-2		13-15				0-2		5-7		0-2		10-12		0-2		8-10	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Volatile Organic Compounds																													
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	UJ	4.6	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	UJ	4.6	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	UJ	4.6	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***4.3***	***U***	***3.4***	***U***	***3.9***	***U***	***4.4***	***U***	***3.9***	***U***	***4.8***	***U***	***4.1***	***U***	***3.6***	***U***	***3.6***	***U***	***2.8***	***U***	***3.8***	***U***	***4.6***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	UJ	4.6	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	14		2.8	U	3.8	U	4.6	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	48		3.6		3.8	U	4.6	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	UJ	4.6	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	UJ	4.6	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-120		NOB-119		NOB-119		NOB-122		NOB-122		DUP-02		NOB-123		NOB-123		NOB-108		NOB-108		NOB-109		NOB-109	
					Laboratory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D		P1467-15D		P1467-16D		P1467-17D	
					Sample Depth (ft bgs)	8-10		0-2		5-7		0-2		13-15				0-2		5-7		0-2		10-12		0-2		8-10	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	CAS #	Method	Report Units	RIDEM Residential Direct Exposure Criteria[1]	RIDEM GA Leachability Criteria[2]																								
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	8.6	U	6.8	U	7.7	U	8.9	U	7.8	U	9.7	U	8.2	U	7.2	U	7.2	U	5.7	U	7.7	U	9.2	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	UJ	4.6	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U	2.8	U	3.8	U	4.6	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-120		NOB-119		NOB-119		NOB-122		NOB-122		DUP-02		NOB-123		NOB-123		NOB-108		NOB-108		NOB-109		NOB-109	
					Laboratory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D		P1467-15D		P1467-16D		P1467-17D	
					Sample Depth (ft bgs)	8-10		0-2		5-7		0-2		13-15				0-2		5-7		0-2		10-12		0-2		8-10	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Semivolatile Organic Compounds																													
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U	780	U	710	U	730	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U	780	U	710	U	730	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U	780	U	710	U	730	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U	780	U	710	U	730	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U	780	U	710	U	730	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U	780	U	710	U	730	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U	780	U	710	U	730	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	370	U	350	U	340	U	370	U	**420**	U	370	U	**420**	U	370	U	400	U	390	U	350	U	360	U
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	750	U	180	J	82	J	750	U	860	U	180	J	210	J	740	U	140	J	780	U	130	J	130	J
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-120		NOB-119		NOB-119		NOB-122		NOB-122		DUP-02		NOB-123		NOB-123		NOB-108		NOB-108		NOB-109		NOB-109	
					Laboratory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D		P1467-15D		P1467-16D		P1467-17D	
					Sample Depth (ft bgs)	8-10		0-2		5-7		0-2		13-15				0-2		5-7		0-2		10-12		0-2		8-10	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	370	U	350	U	340	U	370	U	450		370	U	420	U	370	U	400	U	390	U	350	U	360	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	370	U	350	U	340	U	370	U	**420**	U	370	U	**420**	U	370	U	400	U	390	U	350	U	360	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	370	U	350	U	340	U	370	U	**420**	U	370	U	**420**	U	370	U	400	U	390	U	350	U	360	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	360	J	510		510		540		320	J	600		480		410		460		350	J	290	J	320	J
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	370	U	350	U	340	U	370	U	**420**	U	370	U	**420**	U	370	U	400	U	390	U	350	U	360	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U	780	U	710	U	730	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U	390	U	350	U	360	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-120		NOB-119		NOB-119		NOB-122		NOB-122		DUP-02		NOB-123		NOB-123		NOB-108		NOB-108		NOB-109		NOB-109	
					Laboratory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D		P1467-15D		P1467-16D		P1467-17D	
					Sample Depth (ft bgs)	8-10		0-2		5-7		0-2		13-15				0-2		5-7		0-2		10-12		0-2		8-10	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Pesticides/PCBs																													
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	3.7	U	3.5	U	3.5	U	2.2	J	4.2	U	3.1	J	16		3.7	U	4.0	U	3.9	U	2.4	J	3.7	U
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	3.7	U	3.5	UJ	3.5	U	3.7	U	4.2	U	3.8	U	10		3.7	U	2.9	J	3.9	U	7.0	J	3.7	U
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	3.7	U	3.5	U	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U	3.9	U	4.6	J	3.7	U
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	1.9	U	1.8	U	1.8	U	1.9	U	2.2	U	1.9	U	3.3	J	1.9	U	2.0	U	2.0	U	1.8	U	1.9	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	1.9	U	1.8	UJ	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U	2.0	U	1.8	UJ	1.9	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	1.9	U	1.8	UJ	1.8	U	5.0	J	2.2	U	6.0	J	55		1.9	U	1.5	J	2.0	U	2.3	J	1.9	U
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	1.9	U	1.8	U	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U	2.0	U	1.8	UJ	1.9	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	1.9	U	1.8	U	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U	2.0	U	1.8	UJ	1.9	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	3.7	U	3.5	UJ	3.5	U	5.0		4.2	U	4.8		38		3.7	U	4.0	U	3.9	U	3.5	UJ	3.7	U
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	1.9	U	1.8	U	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U	2.0	U	1.8	U	1.9	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	3.7	U	3.5	U	3.5	U	3.7	U	4.2	U	3.8	U	4.2	J	3.7	U	4.0	U	3.9	U	3.5	U	3.7	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	3.7	U	3.5	UJ	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U	3.9	U	3.5	UJ	3.7	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	3.7	U	3.5	UJ	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U	3.9	U	3.5	UJ	3.7	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	3.7	U	3.5	R	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U	3.9	U	3.5	R	3.7	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	3.7	U	3.5	UJ	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U	3.9	U	3.5	UJ	3.7	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	1.9	U	1.8	UJ	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U	2.0	U	1.8	UJ	1.9	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	1.9	U	1.8	UJ	1.8	U	2.5		2.2	U	3.1		29		1.9	U	2.0	U	2.0	U	1.2	J	1.9	U
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	1.9	U	1.8	UJ	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U	2.0	U	1.8	UJ	1.9	U
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	1.9	U	1.8	UJ	1.8	U	1.9	U	2.2	U	1.9	U	5.2		1.9	U	2.0	U	2.0	U	1.8	UJ	1.9	U
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	19	U	18	U	18	U	19	U	22	U	19	U	42	U	19	U	20	U	20	U	18	UJ	19	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	190	U	180	U	180	U	190	U	220	U	190	U	420	U	190	U	200	U	200	U	180	U	190	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U	39	U	35	U	37	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U	39	U	35	U	37	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U	39	U	35	U	37	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U	39	U	35	U	37	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U	39	U	35	U	37	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U	39	U	35	U	37	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U	39	U	35	U	37	U
Total Petroleum Hydrocarbons																													
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2200	U	2500	U	2100	U	2200	U	2700	U	2300	U	2800	U	2400	U	2300	U	2600	U	2200	U	2200	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/Kg	NE	NE	7.8	U	7.4	U	7.2	U	8.0	U	8.9	U	9.0		9.5		7.9	U	10		8.2	U	9.0	J	7.7	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-120		NOB-119		NOB-119		NOB-122		NOB-122		DUP-02		NOB-123		NOB-123		NOB-108		NOB-108		NOB-109		NOB-109	
					Laboratory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D		P1467-15D		P1467-16D		P1467-17D	
					Sample Depth (ft bgs)	8-10		0-2		5-7		0-2		13-15				0-2		5-7		0-2		10-12		0-2		8-10	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																								
Metals and Cyanide																													
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.88	U	0.80	U	0.88	U	0.97	U	0.91	U	1.0	U	1.1	U	0.87	U	1.1	U	0.85	U	0.75	U	1.0	U
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	**11**		5.4		5.9		6.6		5.0		**7.0**		5.6		6.6		1.1	U	**10**		**7.1**		**7.9**	
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	31		22		25		13		30		14		30		21		11		10		12		18	
Beryllium	7440-41-7	SW6010	mg/Kg	1.5	NE	0.46		0.56		0.40		0.29		0.31		0.31		0.37		0.26		0.10	J	0.16	J	0.34		0.33	
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.22	U	0.20	U	0.22	U	0.24	U	0.15	J	0.26	U	0.28	U	0.22	U	0.034	J	0.015	J	0.19	U	0.12	J
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	9.6		8.6		11		6.8		6.4		7.5		5.5		8.9		2.3		15		6.8		16	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	17		11		12		8.3		23		9.1		9.3		18		4.6		23		10		26	
Lead	7439-92-1	SW6010	mg/Kg	150	NE	13		7.9		8.8		5.1		9.9		5.9		20		13		9.2		5.5		12		13	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	250		300		340		170		290		180		140		**500**		43		290		180		**690**	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	11		11		11		8.5		21		9.6		5.1		17		2.2	J	29		8.3		26	
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	0.67	J	1.2	U	1.3	U	1.4	U	1.4	U	1.6	U	1.7	U	1.3	U	4.9		1.3	U	1.1	U	1.6	U
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.3	U	1.2	U	1.3	U	1.4	U	1.4	U	1.6	U	1.7	U	1.3	U	0.78	J	1.3	U	1.1	U	0.30	J
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	0.44	J	0.19	J	0.64	J	0.97	U	1.1		1.0	U	1.1	U	0.87	U	0.46	J	0.85	U	0.75	U	1.0	U
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	11		13		9.7		9.5		9.0		10		11		8.6		4.8		12		11		11	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	33		26		29		21		110		23		20		40		8.6		51		24		50	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.5	UJ	4.3	UJ	4.0	UJ	4.6	UJ	5.1	UJ	4.4	UJ	5.1	UJ	4.4	UJ	4.7	UJ	4.7	UJ	4.4	UJ	4.4	UJ
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.041	U	0.0078	J	0.039	U	0.0080	J	0.046	U	0.0094	J	0.033	J	0.039	U	0.015	J	0.044	U	0.017	J	0.043	U
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.533	U	0.426	U	0.392	U	0.480	U	0.494	U	0.549	U	0.549	U	0.576	U	0.506	U	0.468	U	0.450	U	0.451	U

Notes

1. State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, November, 2011, Table 1, Residential Direct Exposure Criteria.

2. RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA
3. **BOLD - Reporting Limit exceeds Table 1 Regulatory Limit**
4. **Bold /Shaded - Result exceeds Table 1 Regulatory Limit**
5. ***BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit***
6. ***Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit***
7. U: Analyte not detected above Regulatory Limit
8. NE: No Regulatory Limit for analyte
9. J: Analyte is J-qualified
10. Arsenic-No indvidual sample results exceeds 15 mg/kg (ppm)

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-110		NOB-110		NOB-111		DUP-01		NOB-111		TRIP BLANK-03	
					Laboratory ID	P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A	
					Sample Depth (ft bgs)	0-2		5-7		0-2				7-9			
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**												
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***3.7***	***U***	***3.9***	***U***	***3.7***	***U***	***3.5***	***U***	***4.3***	***U***	***5.0***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-110		NOB-110		NOB-111		DUP-01		NOB-111		TRIP BLANK-03	
					Laboratory ID	P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A	
					Sample Depth (ft bgs)	0-2		5-7		0-2				7-9			
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**												
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	18	
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	7.3	U	7.8	U	7.3	U	7.0	U	8.5	U	10	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-110		NOB-110		NOB-111		DUP-01		NOB-111		TRIP BLANK-03
					Laboratory ID	P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A
					Sample Depth (ft bgs)	0-2		5-7		0-2				7-9		
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**											
Semivolatile Organic Compounds																
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	390	U	350	U	340	U	330	U	380	U	
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	390	U	350	U	340	U	330	U	380	U	
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	390	U	350	U	340	U	330	U	380	U	
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	390	U	350	U	340	U	330	U	380	U	
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	390	U	350	U	340	U	330	U	380	U	
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	790	U	710	U	690	U	680	U	760	U	
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	390	U	350	U	340	U	330	U	380	U	
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	390	U	350	U	340	U	330	U	380	U	
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	390	U	350	U	340	U	330	U	380	U	
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	790	U	710	U	690	U	680	U	760	U	
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	390	U	350	U	340	U	330	U	380	U	
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	390	U	350	U	340	U	330	U	380	U	
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	390	U	350	U	340	U	330	U	380	U	
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	790	U	710	U	690	U	680	U	760	U	
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	390	U	350	U	340	U	330	U	380	U	
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	790	U	710	U	690	U	680	U	760	U	
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	790	U	710	U	690	U	680	U	760	U	
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	390	U	350	U	340	U	330	U	380	U	
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	790	U	710	U	690	U	680	U	760	U	
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	790	U	710	U	690	U	680	U	760	U	
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	390	U	350	U	340	U	330	U	380	U	
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	390	U	350	U	340	U	330	U	380	U	
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	390	U	350	U	340	U	330	U	380	U	
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	390	U	350	U	340	U	330	U	380	U	
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	390	U	350	U	340	U	330	U	380	U	
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	390	U	350	U	340	U	330	U	380	U	
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	390	U	350	U	340	U	330	U	380	U	
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	390	U	350	U	340	U	330	U	380	U	
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	790	U	89	J	110	J	680	U	110	J	
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-110		NOB-110		NOB-111		DUP-01		NOB-111		TRIP BLANK-03
					Laboratory ID	P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A
					Sample Depth (ft bgs)	0-2		5-7		0-2				7-9		
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**											
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	390	U	350	U	340	U	330	U	380	U	
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	390	U	350	U	340	U	330	U	380	U	
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	390	U	350	U	340	U	330	U	380	U	
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	390	U	350	U	340	U	330	U	380	U	
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	390	U	350	U	340	U	330	U	380	U	
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	390	U	350	U	340	U	330	U	380	U	
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	260	J	320	J	370		280	J	360	J	
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	390	U	350	U	340	U	330	U	380	U	
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	390	U	350	U	340	U	330	U	380	U	
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	390	U	350	U	340	U	330	U	380	U	
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	390	U	350	U	340	U	330	U	380	U	
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	390	U	350	U	340	U	330	U	380	U	
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	390	U	350	U	340	U	330	U	380	U	
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	390	U	350	U	340	U	330	U	380	U	
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	390	U	350	U	340	U	330	U	380	U	
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	790	U	710	U	690	U	680	U	760	U	
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	390	U	350	U	340	U	330	U	380	U	
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	390	U	350	U	340	U	330	U	380	U	
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	390	U	350	U	340	U	330	U	380	U	

Table 1
Summary of Soil Analytical Results
Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-110		NOB-110		NOB-111		DUP-01		NOB-111		TRIP BLANK-03
					Laboratory ID	P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A
					Sample Depth (ft bgs)	0-2		5-7		0-2				7-9		
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**											
Pesticides/PCBs																
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	8.4		3.5	U	3.9		2.6	J	3.7	U	
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	17		3.5	U	3.6		3.3	J	3.7	U	
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	15		3.5	U	3.5		2.7	J	3.7	U	
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	19	J	1.8	U	8.5	J	7.8	J	1.9	U	
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	2.2	J	3.5	U	3.4	U	3.4	U	3.7	U	
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	9.3		1.8	U	4.8		4.5		1.9	U	
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	2.1	J	1.8	U	0.98	J	1.3	J	1.9	U	
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	20	U	18	U	18	U	18	U	19	U	
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	200	U	180	U	180	U	180	U	190	U	
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	38	U	35	U	34	U	34	U	37	U	
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	38	U	35	U	34	U	34	U	37	U	
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	38	U	35	U	34	U	34	U	37	U	
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	38	U	35	U	34	U	34	U	37	U	
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	38	U	35	U	34	U	34	U	37	U	
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	38	U	35	U	34	U	34	U	37	U	
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	38	U	35	U	34	U	34	U	37	U	
Total Petroleum Hydrocarbons																
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2600	U	2700	U	1900	U	2000	U	2200	U	
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/Kg	NE	NE	9.3		7.4	U	7.3	U	7.2	U	8.0	U	

Table 1
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Palmer Pointe, Sowams Road
Barrington, RI.

					Sample ID	NOB-110		NOB-110		NOB-111		DUP-01		NOB-111		TRIP BLANK-03
					Laboratory ID	P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A
					Sample Depth (ft bgs)	0-2		5-7		0-2				7-9		
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**											
Metals and Cyanide																
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.87	U	0.96	U	0.87	U	0.93	U	0.92	U	
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	6.4		5.5		4.6		4.8		**8.2**		
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	14		20		8.7	J	11		13		
Beryllium	7440-41-7	SW6010	mg/Kg	1.5	NE	0.28		0.40		0.31		0.23	J	0.31		
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.071	J	0.20	J	0.15	J	0.23	U	0.23	U	
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	8.4		9.4		8.6		8.0		17		
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	13		17		12		9.7		31		
Lead	7439-92-1	SW6010	mg/Kg	150	NE	21		13		7.6		6.8		12		
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	190		**390**		190		220		370		
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	7.6		12		9.6		10		25		
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	0.76	J	1.4	U	1.3	U	1.4	U	1.4	U	
Silver	7440-22-4	SW6010	mg/Kg	200	NE	0.062	J	0.15	J	0.11	J	1.4	U	1.4	U	
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	0.87	U	0.96	U	0.87	U	0.23	J	0.73	J	
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	11		8.6		8.9		9.7		14		
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	23		30		24		26		61		
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.5	UJ	4.1	UJ	4.1	UJ	4.0	UJ	4.6	UJ	
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.057	J	0.039	U	0.0035	J	0.0058	J	0.040	U	
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.489	U	0.452	U	0.481	U	0.492	U	0.549	U	

Notes

1. State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, November, 2011, Table 1, Residential Direct Exposure Criteria.

2. RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA
3. **BOLD - Reporting Limit exceeds Table 1 Regulatory Limit**
4. **Bold /Shaded - Result exceeds Table 1 Regulatory Limit**
5. ***BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit***
6. ***Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit***
7. U: Analyte not detected above Regulatory Limit
8. NE: No Regulatory Limit for analyte
9. J: Analyte is J-qualified
10. Arsenic-No indvidual sample results exceeds 15 mg/kg (ppm)

Table 2
Summary of Soil Analytical Results-Arsenic
Palmer Pointe, Sowams Road
Barrington, RI.

RIDEM Residential Direct Exposure Criteria				7	
RIDEM GA Leachability Criteria				NE	
Arsenic Average Concentration-Shallow (mg/kg)				6.7	
Arsenic Average Concentration (At Depth)				**8.1**	
Arsenic Average Concentration (All Samples)				**7.4**	
# Shallow Samples				24	
# At Depth Samples				24	
Percent of Shallow Sample Results >/= to 7.0 ppm				*42%*	
Percent of At Depth Sample Results >/= to 7.0 ppm				*63%*	
Sample ID	**Lab ID**	**Depth (ft bgs)**	**Sample Date**	**Result (mg/kg)**	
Shallow Samples (0-2 feet bgs)					
NOB-101	P1453-01D	0-2	09/29/2015	6.6	
NOB-102	P1456-06D	0-2	09/28/2015	**8.2**	
NOB-103	P1456-04D	0-2	09/28/2015	4.9	
NOB-104	P1456-02D	0-2	09/28/2015	5.5	
NOB-105	P1456-18D	0-2	09/28/2015	6.2	
NOB-106	P1456-13D	0-2	09/28/2015	5.2	
NOB-107	P1456-16D	0-2	09/28/2015	**7.1**	
NOB-108	P1467-14D	0-2	09/30/2015	1.1	U
NOB-109	P1467-16D	0-2	09/30/2015	**7.1**	
NOB-110	P1467-18D	0-2	09/30/2015	6.4	
NOB-111	P1467-20D	0-2	09/30/2015	4.6	
NOB-112	P1467-03D	0-2	09/30/2015	**9.5**	
NOB-113	P1456-09D	0-2	09/28/2015	**11**	
NOB-114	P1453-05D	0-2	09/29/2015	**9.4**	
NOB-115	P1453-03D	0-2	09/29/2015	**7.4**	
NOB-116	P1453-07D	0-2	09/29/2015	6.8	
NOB-117	P1453-09D	0-2	09/29/2015	**12**	
NOB-118	P1453-11D	0-2	09/29/2015	**9.4**	
NOB-119	P1467-07D	0-2	09/30/2015	5.4	
NOB-120	P1467-05D	0-2	09/30/2015	6.3	
NOB-121	P1456-11D	0-2	09/28/2015	**7.5**	
NOB-122	P1467-09D	0-2	09/30/2015	6.6	
NOB-123	P1467-12D	0-2	09/30/2015	5.6	
NOB-124	P1467-01D	0-2	09/30/2015	0.9	U
At Depth Samples feet (5-16 ft bgs)					
NOB-101	P1453-02D	8-10	09/29/2015	**7.5**	
NOB-102	P1456-07D	7-9	09/28/2015	6.6	
NOB-103	P1456-05D	13-15	09/28/2015	**8.7**	
NOB-104	P1456-03D	7-9	09/28/2015	3.7	
NOB-105	P1456-01D	7-9	09/28/2015	**11**	
NOB-106	P1456-14D	12-14	09/28/2015	**11**	
NOB-107	P1456-17D	14-16	09/28/2015	**11**	
NOB-108	P1467-15D	10-12	09/30/2015	**10**	
NOB-109	P1467-17D	8-10	09/30/2015	**7.9**	

Table 2
Summary of Soil Analytical Results-Arsenic
Palmer Pointe, Sowams Road
Barrington, RI.

RIDEM Residential Direct Exposure Criteria	7
RIDEM GA Leachability Criteria	NE
Arsenic Average Concentration-Shallow (mg/kg)	6.7
Arsenic Average Concentration (At Depth)	**8.1**
Arsenic Average Concentration (All Samples)	**7.4**
# Shallow Samples	24
# At Depth Samples	24
Percent of Shallow Sample Results >/= to 7.0 ppm	*42%*
Percent of At Depth Sample Results >/= to 7.0 ppm	*63%*

Sample ID	Lab ID	Depth (ft bgs)	Sample Date	Result (mg/kg)
Shallow Samples (0-2 feet bgs)				
NOB-110	P1467-19D	5-7	09/30/2015	5.5
NOB-111	P1467-22D	7-9	09/30/2015	**8.2**
NOB-112	P1467-04D	12-14	09/30/2015	**8**
NOB-113	P1456-10D	12-14	09/28/2015	**13**
NOB-114	P1453-06D	8-10	09/29/2015	**11**
NOB-115	P1453-04D	10-12	09/29/2015	**9.5**
NOB-116	P1453-08D	11-13	09/29/2015	**9**
NOB-117	P1453-10D	5-7	09/29/2015	5.9
NOB-118	P1453-12D	10-12	09/29/2015	**7**
NOB-119	P1467-08D	5-7	09/30/2015	5.9
NOB-120	P1467-06D	8-10	09/30/2015	**11**
NOB-121	P1456-12D	12-14	09/28/2015	6.7
NOB-122	P1467-10D	13-15	09/30/2015	5
NOB-123	P1467-13D	5-7	09/30/2015	6.6
NOB-124	P1467-02D	7-9	09/30/2015	5.1

Notes

1. Arsenic-No indvidual sample results exceeds 15 mg/kg (ppm)
2. RIDEM Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure Criteria.
3. RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA Leachability Criteria.
4. **Bold /Shaded - Result exceeds Table 1 Regulatory Limit**
5. U: Analyte not detected above Regulatory Limit
6. NE: No Regulatory Limit for analyte
7. For averaging, laboratory detection limit used for non-detect results

Table 3
Summary of Groundwater Results
Palmer Pointe, Sowams Road
Barrington, Rhode Island

				Sample ID	WELL-2		TRIP BLANK-02		WELL-2-F		WELL-1		DUP-01-GW		TRIP BLANK		WELL-1-F		DUP-01-GW-F		NOB-113-GW		NOB-121-GW	
				Laboraory ID	P1454-01F		P1454-02A		P1454-03A		P1457-01E		P1457-02E		P1457-03A		P1457-04A		P1457-05A		P1465-01E		P1465-02E	
				Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**																				
Volatile Organic Compounds																								
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/L	200	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1-Dichloroethane	75-34-3	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1-Dichloroethene	75-35-4	SW8260	ug/L	7	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1-Dichloropropene	563-58-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/L	0.2	**5.0**	U	**5.0**	U			**5.0**	U	**5.0**	U	**5.0**	U					**5.0**	U	**5.0**	U
1,2-Dibromoethane	106-93-4	SW8260	ug/L	0.05	**5.0**	U	**5.0**	U			**5.0**	U	**5.0**	U	**5.0**	U					**5.0**	U	**5.0**	U
1,2-Dichlorobenzene	95-50-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2-Dichloroethane	107-06-2	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2-Dichloropropane	78-87-5	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,3-Dichloropropane	142-28-9	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
2,2-Dichloropropane	594-20-7	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
2-Butanone	78-93-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
2-Chlorotoluene	95-49-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
2-Hexanone	591-78-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
4-Chlorotoluene	106-43-4	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
4-Isopropyltoluene	99-87-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Acetone	67-64-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Benzene	71-43-2	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromobenzene	108-86-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromochloromethane	74-97-5	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromodichloromethane	75-27-4	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromoform	75-25-2	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromomethane	74-83-9	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Carbon disulfide	75-15-0	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Carbon tetrachloride	56-23-5	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Chlorobenzene	108-90-7	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Chloroethane	75-00-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Chloroform	67-66-3	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Chloromethane	74-87-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/L	70	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Dibromochloromethane	124-48-1	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Dibromomethane	74-95-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Diethyl ether	60-29-7	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Ethylbenzene	100-41-4	SW8260	ug/L	700	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Hexachlorobutadiene	87-68-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Isopropylbenzene	98-82-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
m,p-Xylene	179601-23-1	SW8260	ug/L	10,000	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/L	40	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Methylene chloride	75-09-2	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
n-Butylbenzene	104-51-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

Table 3
Summary of Groundwater Results
Palmer Pointe, Sowams Road
Barrington, Rhode Island

				Sample ID	WELL-2		TRIP BLANK-02		WELL-2-F		WELL-1		DUP-01-GW		TRIP BLANK		WELL-1-F		DUP-01-GW-F		NOB-113-GW		NOB-121-GW	
				Laboraory ID	P1454-01F		P1454-02A		P1454-03A		P1457-01E		P1457-02E		P1457-03A		P1457-04A		P1457-05A		P1465-01E		P1465-02E	
				Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**																				
n-Propylbenzene	103-65-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Naphthalene	91-20-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
o-Xylene	95-47-6	SW8260	ug/L	10,000	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
sec-Butylbenzene	135-98-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Styrene	100-42-5	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
tert-Butylbenzene	98-06-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Tetrachloroethene	127-18-4	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Tetrahydrofuran	109-99-9	SW8260	ug/L	NE	10	U	10	U			10	U	10	U	10	U					10	U	10	U
Toluene	108-88-3	SW8260	ug/L	1	**5.0**	U	**5.0**	U			**5.0**	U	**5.0**	U	**5.0**	U					**5.0**	U	**5.0**	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Trichloroethene	79-01-6	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Trichlorofluoromethane	75-69-4	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Vinyl chloride	75-01-4	SW8260	ug/L	2	**5.0**	U	**5.0**	U			**5.0**	U	**5.0**	U	**5.0**	U					**5.0**	U	**5.0**	U
Xylene (Total)	1330-20-7	SW8260	ug/L	10,000	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8011	ug/L	0.2	0.021	U					0.021	U	0.020	U							0.020	U	0.021	U
1,2-Dibromoethane	106-93-4	SW8011	ug/L	0.05	0.021	U					0.021	U	0.020	U							0.020	U	0.021	U
Semivolatile Organic Compounds																								
1,1´-Biphenyl	92-52-4	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/L	70	10	U					10	U	10	U							10	U	10	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/L	600	10	U					10	U	10	U							10	U	10	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/L	600	10	U					10	U	10	U							10	U	10	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/L	75	10	U					10	U	10	U							10	U	10	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Chloronaphthalene	91-58-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Chlorophenol	95-57-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Methylnaphthalene	91-57-6	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Methylphenol	95-48-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Nitroaniline	88-74-4	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
2-Nitrophenol	88-75-5	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
3-Nitroaniline	99-09-2	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Chloroaniline	106-47-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Methylphenol	106-44-5	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Nitroaniline	100-01-6	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
4-Nitrophenol	100-02-7	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
Acenaphthene	83-32-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Acenaphthylene	208-96-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Acetophenone	98-86-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Aniline	62-53-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Anthracene	120-12-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Azobenzene	103-33-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzidine	92-87-5	SW8270	ug/L	NE	10	UJ					10	U	10	U							10	U	10	U

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

Table 3
Summary of Groundwater Results
Palmer Pointe, Sowams Road
Barrington, Rhode Island

				Sample ID	WELL-2		TRIP BLANK-02		WELL-2-F		WELL-1		DUP-01-GW		TRIP BLANK		WELL-1-F		DUP-01-GW-F		NOB-113-GW		NOB-121-GW	
				Laboraory ID	P1454-01F		P1454-02A		P1454-03A		P1457-01E		P1457-02E		P1457-03A		P1457-04A		P1457-05A		P1465-01E		P1465-02E	
				Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**																				
Benzo(a)anthracene	56-55-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzo(a)pyrene	50-32-8	SW8270	ug/L	0.2	**10**	U					**10**	U	**10**	U							**10**	U	**10**	U
Benzo(b)fluoranthene	205-99-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzoic acid	65-85-0	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
Benzyl alcohol	100-51-6	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/L	6	2.5	J					4.4	J	**10**	U							**10**	U	1.6	J
Butylbenzylphthalate	85-68-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Carbazole	86-74-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Chrysene	218-01-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Di-n-butylphthalate	84-74-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Di-n-octylphthalate	117-84-0	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Dibenzofuran	132-64-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Diethylphthalate	84-66-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Dimethylphthalate	131-11-3	SW8270	ug/L	NE	2.1	J					2.7	J	1.9	J							1.6	J	3.2	J
Fluoranthene	206-44-0	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Fluorene	86-73-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Hexachlorobenzene	118-74-1	SW8270	ug/L	1	**10**	U					**10**	U	**10**	U							**10**	U	**10**	U
Hexachlorobutadiene	87-68-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Hexachloroethane	67-72-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Isophorone	78-59-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Naphthalene	91-20-3	SW8270	ug/L	20	10	U					10	U	10	U							10	U	10	U
Nitrobenzene	98-95-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Pentachlorophenol	87-86-5	SW8270	ug/L	1	**20**	U					**20**	U	**20**	U							**20**	UJ	**20**	UJ
Phenanthrene	85-01-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Phenol	108-95-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Pyrene	129-00-0	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Pesticides/PCBs																								
4,4´-DDD	72-54-8	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
4,4´-DDE	72-55-9	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
4,4´-DDT	50-29-3	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Aldrin	309-00-2	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
alpha-BHC	319-84-6	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
alpha-Chlordane	5103-71-9	SW8081	ug/L	2	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
beta-BHC	319-85-7	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
delta-BHC	319-86-8	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Dieldrin	60-57-1	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endosulfan I	959-98-8	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Endosulfan II	33213-65-9	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endosulfan sulfate	1031-07-8	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endrin	72-20-8	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endrin aldehyde	7421-93-4	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endrin ketone	53494-70-5	SW8081	ug/L	NE	0.10	UJ					0.10	U	0.10	U							0.10	U	0.10	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

Table 3
Summary of Groundwater Results
Palmer Pointe, Sowams Road
Barrington, Rhode Island

				Sample ID	WELL-2		TRIP BLANK-02		WELL-2-F		WELL-1		DUP-01-GW		TRIP BLANK		WELL-1-F		DUP-01-GW-F		NOB-113-GW		NOB-121-GW	
				Laboraory ID	P1454-01F		P1454-02A		P1454-03A		P1457-01E		P1457-02E		P1457-03A		P1457-04A		P1457-05A		P1465-01E		P1465-02E	
				Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**																				
gamma-Chlordane	5103-74-2	SW8081	ug/L	2	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Heptachlor	76-44-8	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Heptachlor epoxide	1024-57-3	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Methoxychlor	72-43-5	SW8081	ug/L	NE	0.50	U					0.50	U	0.50	U							0.50	U	0.50	U
Toxaphene	8001-35-2	SW8081	ug/L	NE	5.0	U					5.0	U	5.0	U							5.0	U	5.0	U
Aroclor-1016	12674-11-2	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1221	11104-28-2	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1232	11141-16-5	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1242	53469-21-9	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1248	12672-29-6	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1254	11097-69-1	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1260	11096-82-5	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Total Petroleum Hydrocarbons																								
Gasoline Range Organics	8888-88-88	GRO	ug/L	NE	100	U					100	U	100	U							100	U	100	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/L	NE	0.20	U					0.20	U	0.20	U							0.20	U	0.20	U
Metals and Cyanide																								
Antimony	7440-36-0	SW6020	ug/L	6	2.0	U			2.0	U	2.0	U	2.0	U			2.0	U	2.0	U	2.0	U	2.0	U
Arsenic	7440-38-2	SW6020	ug/L	NE	0.23	J			0.22	J	0.24	J	2.0	U			2.0	U	2.0	U	0.53	J	0.31	J
Barium	7440-39-3	SW6020	ug/L	2,000	8.0	J			8.1	J	8.6	J	8.2	J			7.8	J	7.8	J	62		17	
Beryllium	7440-41-7	SW6020	ug/L	4	1.0	U			1.0	U	1.0	U	1.0	U			1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	7440-43-9	SW6020	ug/L	5	0.77	J			0.63	J	1.0	U	1.0	U			1.0	U	1.0	U	1.0	U	1.0	U
Chromium	7440-47-3	SW6020	ug/L	100	2.0	U			3.4		2.0	U	2.0	U			2.0	U	2.0	U	0.48	J	0.78	J
Copper	7440-50-8	SW6020	ug/L	NE	1.1	J			1.0	J	1.8	J	1.4	J			0.47	J	0.32	J	1.3	J	1.1	J
Lead	7439-92-1	SW6020	ug/L	15	0.19	J			1.0	U	1.2		0.76	J			1.0	U	1.0	U	0.43	J	0.28	J
Manganese	7439-96-5	SW6020	ug/L	NE	4500				3500		570		550				540		540		340		67	
Nickel	7440-02-0	SW6020	ug/L	100	9.5				11		0.87	J	0.79	J			0.51	J	0.59	J	2.5		2.5	
Selenium	7782-49-2	SW6020	ug/L	50	5.0	U			5.0	U	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U	5.0	U
Silver	7440-22-4	SW6020	ug/L	NE	1.0	U			1.0	U	1.0	U	1.0	U			1.0	U	1.0	U	1.0	U	1.0	U
Thallium	7440-28-0	SW6020	ug/L	2	0.38	J			1.0	U	1.0	U	0.14	J			1.0	U	1.0	U	1.0	U	1.0	U
Vanadium	7440-62-2	SW6020	ug/L	NE	5.0	U			5.0	U	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U	5.0	U
Zinc	7440-66-6	SW6020	ug/L	NE	24				22		14	J	9.4	J			4.0		2.0		6.1		4.7	
Mercury	7439-97-6	SW7470	ug/L	2	0.20	U			0.20	U	0.20	U	0.20	U			0.20	U	0.20	U	0.20	U	0.20	U
Cyanide	57-12-5	SW9012	ug/L	200	5	U					5	U	5	U							5	U	5	U

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 3, GA Groundwater Objectives.
BOLD - Reporting Limit exceeds Regulatory Limit
Bold /Shaded - Result exceeds Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

Table 3
Summary of Groundwater Results
Palmer Pointe, Sowams Road
Barrington, Rhode Island

				Sample ID	NOB-105-GW		TRIP BLANK-03		NOB-113-GW-F		NOB-121-GW-F		NOB-105-GW-F	
				Laboraory ID	P1465-03E		P1465-04A		P1465-05A		P1465-06A		P1465-07A	
				Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**										
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/L	NE	5.0	U	5.0	U						
1,1,1-Trichloroethane	71-55-6	SW8260	ug/L	200	5.0	U	5.0	U						
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/L	NE	5.0	U	5.0	U						
1,1,2-Trichloroethane	79-00-5	SW8260	ug/L	5	5.0	U	5.0	U						
1,1-Dichloroethane	75-34-3	SW8260	ug/L	5	5.0	U	5.0	U						
1,1-Dichloroethene	75-35-4	SW8260	ug/L	7	5.0	U	5.0	U						
1,1-Dichloropropene	563-58-6	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2,3-Trichloropropane	96-18-4	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/L	0.2	**5.0**	U	**5.0**	U						
1,2-Dibromoethane	106-93-4	SW8260	ug/L	0.05	**5.0**	U	**5.0**	U						
1,2-Dichlorobenzene	95-50-1	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2-Dichloroethane	107-06-2	SW8260	ug/L	5	5.0	U	5.0	U						
1,2-Dichloropropane	78-87-5	SW8260	ug/L	5	5.0	U	5.0	U						
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/L	NE	5.0	U	5.0	U						
1,3-Dichlorobenzene	541-73-1	SW8260	ug/L	NE	5.0	U	5.0	U						
1,3-Dichloropropane	142-28-9	SW8260	ug/L	NE	5.0	U	5.0	U						
1,4-Dichlorobenzene	106-46-7	SW8260	ug/L	NE	5.0	U	5.0	U						
2,2-Dichloropropane	594-20-7	SW8260	ug/L	NE	5.0	U	5.0	U						
2-Butanone	78-93-3	SW8260	ug/L	NE	5.0	U	5.0	U						
2-Chlorotoluene	95-49-8	SW8260	ug/L	NE	5.0	U	5.0	U						
2-Hexanone	591-78-6	SW8260	ug/L	NE	5.0	U	5.0	U						
4-Chlorotoluene	106-43-4	SW8260	ug/L	NE	5.0	U	5.0	U						
4-Isopropyltoluene	99-87-6	SW8260	ug/L	NE	5.0	U	5.0	U						
4-Methyl-2-pentanone	108-10-1	SW8260	ug/L	NE	5.0	U	5.0	U						
Acetone	67-64-1	SW8260	ug/L	NE	5.0	U	5.0	U						
Benzene	71-43-2	SW8260	ug/L	5	5.0	U	5.0	U						
Bromobenzene	108-86-1	SW8260	ug/L	NE	5.0	U	5.0	U						
Bromochloromethane	74-97-5	SW8260	ug/L	NE	5.0	U	5.0	U						
Bromodichloromethane	75-27-4	SW8260	ug/L	100	5.0	U	5.0	U						
Bromoform	75-25-2	SW8260	ug/L	100	5.0	U	5.0	U						
Bromomethane	74-83-9	SW8260	ug/L	NE	5.0	U	5.0	U						
Carbon disulfide	75-15-0	SW8260	ug/L	NE	5.0	U	5.0	U						
Carbon tetrachloride	56-23-5	SW8260	ug/L	5	5.0	U	5.0	U						
Chlorobenzene	108-90-7	SW8260	ug/L	100	5.0	U	5.0	U						
Chloroethane	75-00-3	SW8260	ug/L	NE	5.0	U	5.0	U						
Chloroform	67-66-3	SW8260	ug/L	100	5.0	U	5.0	U						
Chloromethane	74-87-3	SW8260	ug/L	NE	5.0	U	5.0	U						
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/L	70	5.0	U	5.0	U						
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/L	NE	5.0	U	5.0	U						
Dibromochloromethane	124-48-1	SW8260	ug/L	100	5.0	U	5.0	U						
Dibromomethane	74-95-3	SW8260	ug/L	NE	5.0	U	5.0	U						
Dichlorodifluoromethane	75-71-8	SW8260	ug/L	NE	5.0	U	5.0	U						
Diethyl ether	60-29-7	SW8260	ug/L	NE	5.0	U	5.0	U						
Ethylbenzene	100-41-4	SW8260	ug/L	700	5.0	U	5.0	U						
Hexachlorobutadiene	87-68-3	SW8260	ug/L	NE	5.0	U	5.0	U						
Isopropylbenzene	98-82-8	SW8260	ug/L	NE	5.0	U	5.0	U						
m,p-Xylene	179601-23-1	SW8260	ug/L	10,000	5.0	U	5.0	U						
Methyl tert-butyl ether	1634-04-4	SW8260	ug/L	40	5.0	U	5.0	U						
Methylene chloride	75-09-2	SW8260	ug/L	5	5.0	U	5.0	U						
n-Butylbenzene	104-51-8	SW8260	ug/L	NE	5.0	U	5.0	U						

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

Table 3
Summary of Groundwater Results
Palmer Pointe, Sowams Road
Barrington, Rhode Island

				Sample ID	NOB-105-GW		TRIP BLANK-03		NOB-113-GW-F	NOB-121-GW-F	NOB-105-GW-F
				Laboraory ID	P1465-03E		P1465-04A		P1465-05A	P1465-06A	P1465-07A
				Sample Collection Date	09/30/2015		09/30/2015		09/30/2015	09/30/2015	09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**							
n-Propylbenzene	103-65-1	SW8260	ug/L	NE	5.0	U	5.0	U			
Naphthalene	91-20-3	SW8260	ug/L	NE	5.0	U	5.0	U			
o-Xylene	95-47-6	SW8260	ug/L	10,000	5.0	U	5.0	U			
sec-Butylbenzene	135-98-8	SW8260	ug/L	NE	5.0	U	5.0	U			
Styrene	100-42-5	SW8260	ug/L	NE	5.0	U	5.0	U			
tert-Butylbenzene	98-06-6	SW8260	ug/L	NE	5.0	U	5.0	U			
Tetrachloroethene	127-18-4	SW8260	ug/L	NE	5.0	U	5.0	U			
Tetrahydrofuran	109-99-9	SW8260	ug/L	NE	10	U	10	U			
Toluene	108-88-3	SW8260	ug/L	1	**5.0**	U	**5.0**	U			
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/L	100	5.0	U	5.0	U			
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/L	NE	5.0	U	5.0	U			
Trichloroethene	79-01-6	SW8260	ug/L	5	5.0	U	5.0	U			
Trichlorofluoromethane	75-69-4	SW8260	ug/L	NE	5.0	U	5.0	U			
Vinyl chloride	75-01-4	SW8260	ug/L	2	**5.0**	U	**5.0**	U			
Xylene (Total)	1330-20-7	SW8260	ug/L	10,000	5.0	U	5.0	U			
1,2-Dibromo-3-chloropropane	96-12-8	SW8011	ug/L	0.2	0.020	U					
1,2-Dibromoethane	106-93-4	SW8011	ug/L	0.05	0.020	U					
Semivolatile Organic Compounds											
1,1´-Biphenyl	92-52-4	SW8270	ug/L	NE	10	U					
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/L	70	10	U					
1,2-Dichlorobenzene	95-50-1	SW8270	ug/L	600	10	U					
1,3-Dichlorobenzene	541-73-1	SW8270	ug/L	600	10	U					
1,4-Dichlorobenzene	106-46-7	SW8270	ug/L	75	10	U					
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/L	NE	20	U					
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/L	NE	10	U					
2,4-Dichlorophenol	120-83-2	SW8270	ug/L	NE	10	U					
2,4-Dimethylphenol	105-67-9	SW8270	ug/L	NE	10	U					
2,4-Dinitrophenol	51-28-5	SW8270	ug/L	NE	20	U					
2,4-Dinitrotoluene	121-14-2	SW8270	ug/L	NE	10	U					
2,6-Dinitrotoluene	606-20-2	SW8270	ug/L	NE	10	U					
2-Chloronaphthalene	91-58-7	SW8270	ug/L	NE	10	U					
2-Chlorophenol	95-57-8	SW8270	ug/L	NE	10	U					
2-Methylnaphthalene	91-57-6	SW8270	ug/L	NE	10	U					
2-Methylphenol	95-48-7	SW8270	ug/L	NE	10	U					
2-Nitroaniline	88-74-4	SW8270	ug/L	NE	20	U					
2-Nitrophenol	88-75-5	SW8270	ug/L	NE	10	U					
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/L	NE	10	U					
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/L	NE	10	U					
3-Nitroaniline	99-09-2	SW8270	ug/L	NE	20	U					
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/L	NE	20	U					
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/L	NE	10	U					
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/L	NE	10	U					
4-Chloroaniline	106-47-8	SW8270	ug/L	NE	10	U					
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/L	NE	10	U					
4-Methylphenol	106-44-5	SW8270	ug/L	NE	10	U					
4-Nitroaniline	100-01-6	SW8270	ug/L	NE	20	U					
4-Nitrophenol	100-02-7	SW8270	ug/L	NE	20	U					
Acenaphthene	83-32-9	SW8270	ug/L	NE	10	U					
Acenaphthylene	208-96-8	SW8270	ug/L	NE	10	U					
Acetophenone	98-86-2	SW8270	ug/L	NE	10	U					
Aniline	62-53-3	SW8270	ug/L	NE	10	U					
Anthracene	120-12-7	SW8270	ug/L	NE	10	U					
Azobenzene	103-33-3	SW8270	ug/L	NE	10	U					
Benzidine	92-87-5	SW8270	ug/L	NE	10	U					

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

Table 3
Summary of Groundwater Results
Palmer Pointe, Sowams Road
Barrington, Rhode Island

				Sample ID	NOB-105-GW		TRIP BLANK-03	NOB-113-GW-F	NOB-121-GW-F	NOB-105-GW-F
				Laboraory ID	P1465-03E		P1465-04A	P1465-05A	P1465-06A	P1465-07A
				Sample Collection Date	09/30/2015		09/30/2015	09/30/2015	09/30/2015	09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**						
Benzo(a)anthracene	56-55-3	SW8270	ug/L	NE	10	U				
Benzo(a)pyrene	50-32-8	SW8270	ug/L	0.2	**10**	U				
Benzo(b)fluoranthene	205-99-2	SW8270	ug/L	NE	10	U				
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/L	NE	10	U				
Benzo(k)fluoranthene	207-08-9	SW8270	ug/L	NE	10	U				
Benzoic acid	65-85-0	SW8270	ug/L	NE	20	U				
Benzyl alcohol	100-51-6	SW8270	ug/L	NE	10	U				
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/L	NE	10	U				
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/L	NE	10	U				
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/L	NE	10	U				
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/L	6	**10**	U				
Butylbenzylphthalate	85-68-7	SW8270	ug/L	NE	10	U				
Carbazole	86-74-8	SW8270	ug/L	NE	10	U				
Chrysene	218-01-9	SW8270	ug/L	NE	10	U				
Di-n-butylphthalate	84-74-2	SW8270	ug/L	NE	10	U				
Di-n-octylphthalate	117-84-0	SW8270	ug/L	NE	10	U				
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/L	NE	10	U				
Dibenzofuran	132-64-9	SW8270	ug/L	NE	10	U				
Diethylphthalate	84-66-2	SW8270	ug/L	NE	10	U				
Dimethylphthalate	131-11-3	SW8270	ug/L	NE	1.6	J				
Fluoranthene	206-44-0	SW8270	ug/L	NE	10	U				
Fluorene	86-73-7	SW8270	ug/L	NE	10	U				
Hexachlorobenzene	118-74-1	SW8270	ug/L	1	**10**	U				
Hexachlorobutadiene	87-68-3	SW8270	ug/L	NE	10	U				
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/L	NE	10	U				
Hexachloroethane	67-72-1	SW8270	ug/L	NE	10	U				
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/L	NE	10	U				
Isophorone	78-59-1	SW8270	ug/L	NE	10	U				
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/L	NE	10	U				
N-Nitrosodimethylamine	62-75-9	SW8270	ug/L	NE	10	U				
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/L	NE	10	U				
Naphthalene	91-20-3	SW8270	ug/L	20	10	U				
Nitrobenzene	98-95-3	SW8270	ug/L	NE	10	U				
Pentachlorophenol	87-86-5	SW8270	ug/L	1	**20**	UJ				
Phenanthrene	85-01-8	SW8270	ug/L	NE	10	U				
Phenol	108-95-2	SW8270	ug/L	NE	10	U				
Pyrene	129-00-0	SW8270	ug/L	NE	10	U				
Pesticides/PCBs										
4,4´-DDD	72-54-8	SW8081	ug/L	NE	0.10	U				
4,4´-DDE	72-55-9	SW8081	ug/L	NE	0.10	U				
4,4´-DDT	50-29-3	SW8081	ug/L	NE	0.10	U				
Aldrin	309-00-2	SW8081	ug/L	NE	0.050	U				
alpha-BHC	319-84-6	SW8081	ug/L	NE	0.050	U				
alpha-Chlordane	5103-71-9	SW8081	ug/L	2	0.050	U				
beta-BHC	319-85-7	SW8081	ug/L	NE	0.050	U				
delta-BHC	319-86-8	SW8081	ug/L	NE	0.050	U				
Dieldrin	60-57-1	SW8081	ug/L	NE	0.10	U				
Endosulfan I	959-98-8	SW8081	ug/L	NE	0.050	U				
Endosulfan II	33213-65-9	SW8081	ug/L	NE	0.10	U				
Endosulfan sulfate	1031-07-8	SW8081	ug/L	NE	0.10	U				
Endrin	72-20-8	SW8081	ug/L	NE	0.10	U				
Endrin aldehyde	7421-93-4	SW8081	ug/L	NE	0.10	U				
Endrin ketone	53494-70-5	SW8081	ug/L	NE	0.10	U				
gamma-BHC (Lindane)	58-89-9	SW8081	ug/L	NE	0.050	U				

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

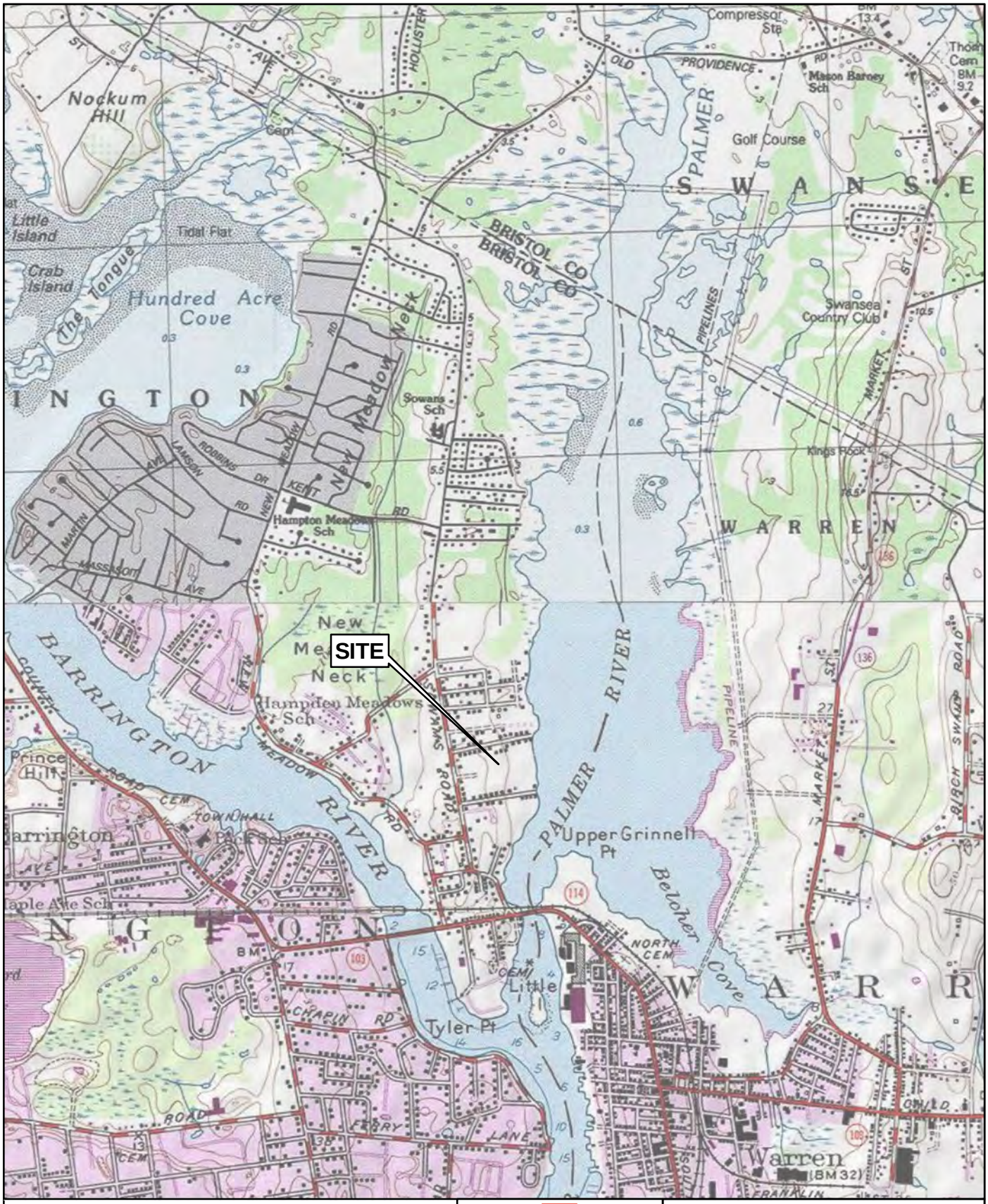
Table 3
Summary of Groundwater Results
Palmer Pointe, Sowams Road
Barrington, Rhode Island

				Sample ID	NOB-105-GW		TRIP BLANK-03		NOB-113-GW-F		NOB-121-GW-F		NOB-105-GW-F	
				Laboraory ID	P1465-03E		P1465-04A		P1465-05A		P1465-06A		P1465-07A	
				Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**										
gamma-Chlordane	5103-74-2	SW8081	ug/L	2	0.050	U								
Heptachlor	76-44-8	SW8081	ug/L	NE	0.050	U								
Heptachlor epoxide	1024-57-3	SW8081	ug/L	NE	0.050	U								
Methoxychlor	72-43-5	SW8081	ug/L	NE	0.50	U								
Toxaphene	8001-35-2	SW8081	ug/L	NE	5.0	U								
Aroclor-1016	12674-11-2	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1221	11104-28-2	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1232	11141-16-5	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1242	53469-21-9	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1248	12672-29-6	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1254	11097-69-1	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1260	11096-82-5	SW8082	ug/L	0.5	**1.0**	U								
Total Petroleum Hydrocarbons														
Gasoline Range Organics	8888-88-88	GRO	ug/L	NE	100	U								
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/L	NE	0.20	U								
Metals and Cyanide														
Antimony	7440-36-0	SW6020	ug/L	6	2.0	U			2.0	U	2.0	U	2.0	U
Arsenic	7440-38-2	SW6020	ug/L	NE	0.40	J			0.74	J	0.61	J	0.34	J
Barium	7440-39-3	SW6020	ug/L	2,000	21				63		16		21	
Beryllium	7440-41-7	SW6020	ug/L	4	1.0	U			1.0	U	1.0	U	1.0	U
Cadmium	7440-43-9	SW6020	ug/L	5	0.17	J			1.0	U	1.0	U	0.17	J
Chromium	7440-47-3	SW6020	ug/L	100	0.54	J			0.87	J	0.53	J	0.38	J
Copper	7440-50-8	SW6020	ug/L	NE	3.1				2.2		1.6	J	3.2	
Lead	7439-92-1	SW6020	ug/L	15	0.44	J			0.64	J	0.20	J	0.20	J
Manganese	7439-96-5	SW6020	ug/L	NE	950				350		72		1200	
Nickel	7440-02-0	SW6020	ug/L	100	7.5				2.9		2.9		7.2	
Selenium	7782-49-2	SW6020	ug/L	50	5.0	U			5.0	U	5.0	U	5.0	U
Silver	7440-22-4	SW6020	ug/L	NE	1.0	U			1.0	U	1.0	U	1.0	U
Thallium	7440-28-0	SW6020	ug/L	2	1.0	U			1.0	U	1.0	U	1.0	U
Vanadium	7440-62-2	SW6020	ug/L	NE	5.0	U			5.0	U	5.0	U	5.0	U
Zinc	7440-66-6	SW6020	ug/L	NE	9.9				5.9		5.5		9.2	
Mercury	7439-97-6	SW7470	ug/L	2	0.20	U			0.20	U	0.20	U	0.20	U
Cyanide	57-12-5	SW9012	ug/L	200	5	U								

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 3, GA Groundwater Objectives.
BOLD - Reporting Limit exceeds Regulatory Limit
Bold /Shaded - Result exceeds Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

FIGURES



USGS Topographic Map

Providence, Rhode Island-Massachusetts;
Revised 1987
Bristol, R.I.-Mass.; Revised 1970

0 500 1,000 2,000
Feet
1 inch = 2,000 feet

N

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FIGURE 1

LOCUS MAP
91 - 97 SOWAMS ROAD
BARRINGTON, RHODE ISLAND

PREPARED BY: JH	CHECKED BY: TC
PROJECT NO. 80108.02	DATE: AUGUST 2015

Path: R:\80000 Task Orders\80108 Brownfields Multi-Site\GIS\Figures\Figure 1 Palmer Point Locus.mxd **Date Printed:** 8/27/2015

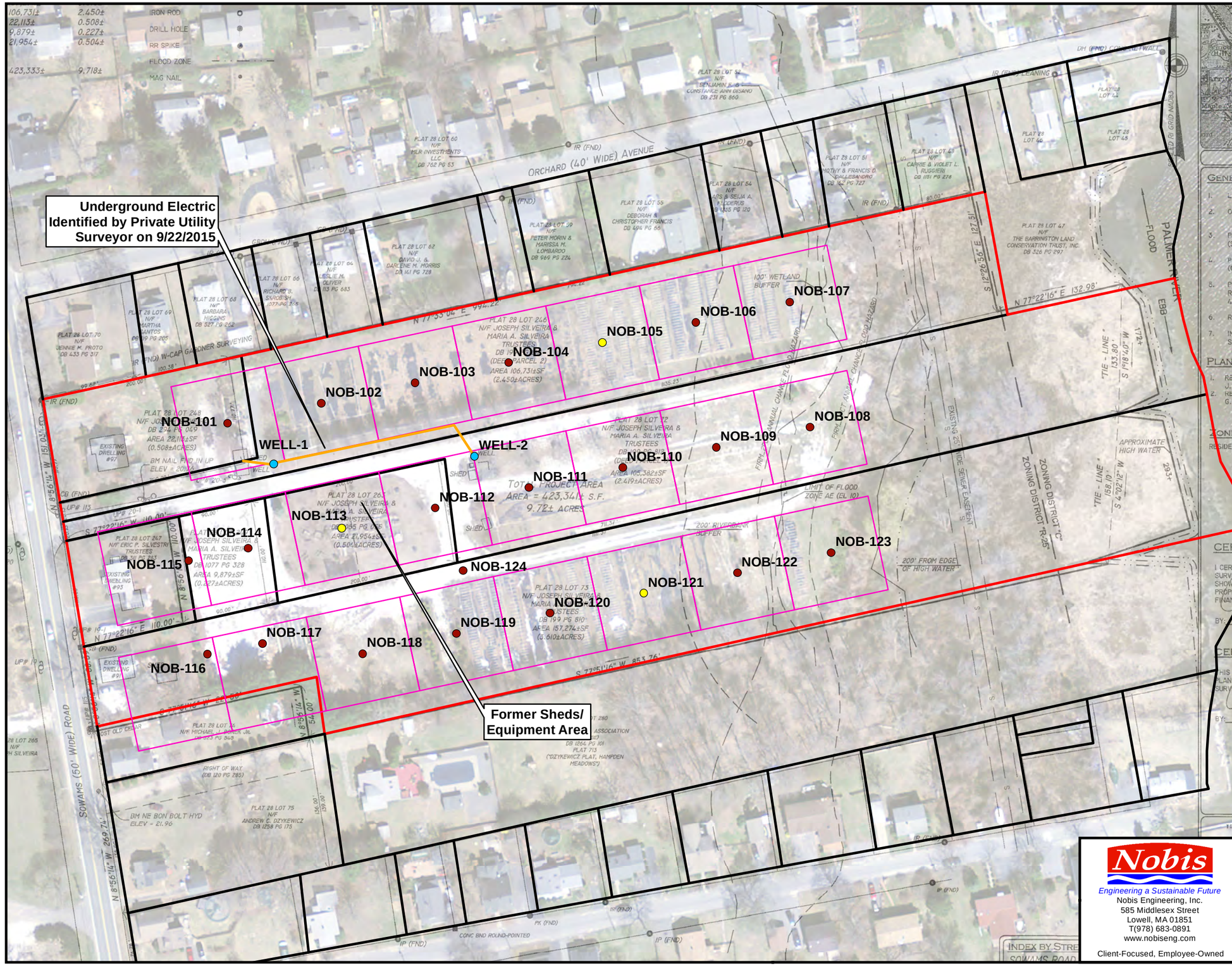

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FIGURE 2

SITE PLAN
91 - 97 SOWAMS ROAD
BARRINGTON, RHODE ISLAND

PREPARED BY: JH	CHECKED BY: TC
PROJECT NO. 80108.02	DATE: OCTOBER 2015

Path: R:\80000 Task Orders\80108 Brownfields Multi-Site\GIS\Palmer Pointe\Figures\Figure 2 Palmer Point Overlay.mxd Date Printed: 11/5/2015

Notes:

1. Soil samples were collected from 9/28/15 - 9/30/15.

2. Exceedances are based on State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure.

3. Location of site features depicted hereon is approximate and given for illustrative purposes only.

Legend

- Arsenic Exceeds RIDEM Residential Direct Exposure Criteria (7 mg/Kg)
- Arsenic Less Than RIDEM Residential Direct Exposure Criteria (7 mg/Kg)
- Site Boundary
- Other Property Lines

0 50 100 200
Feet
1 inch = 100 feet

N

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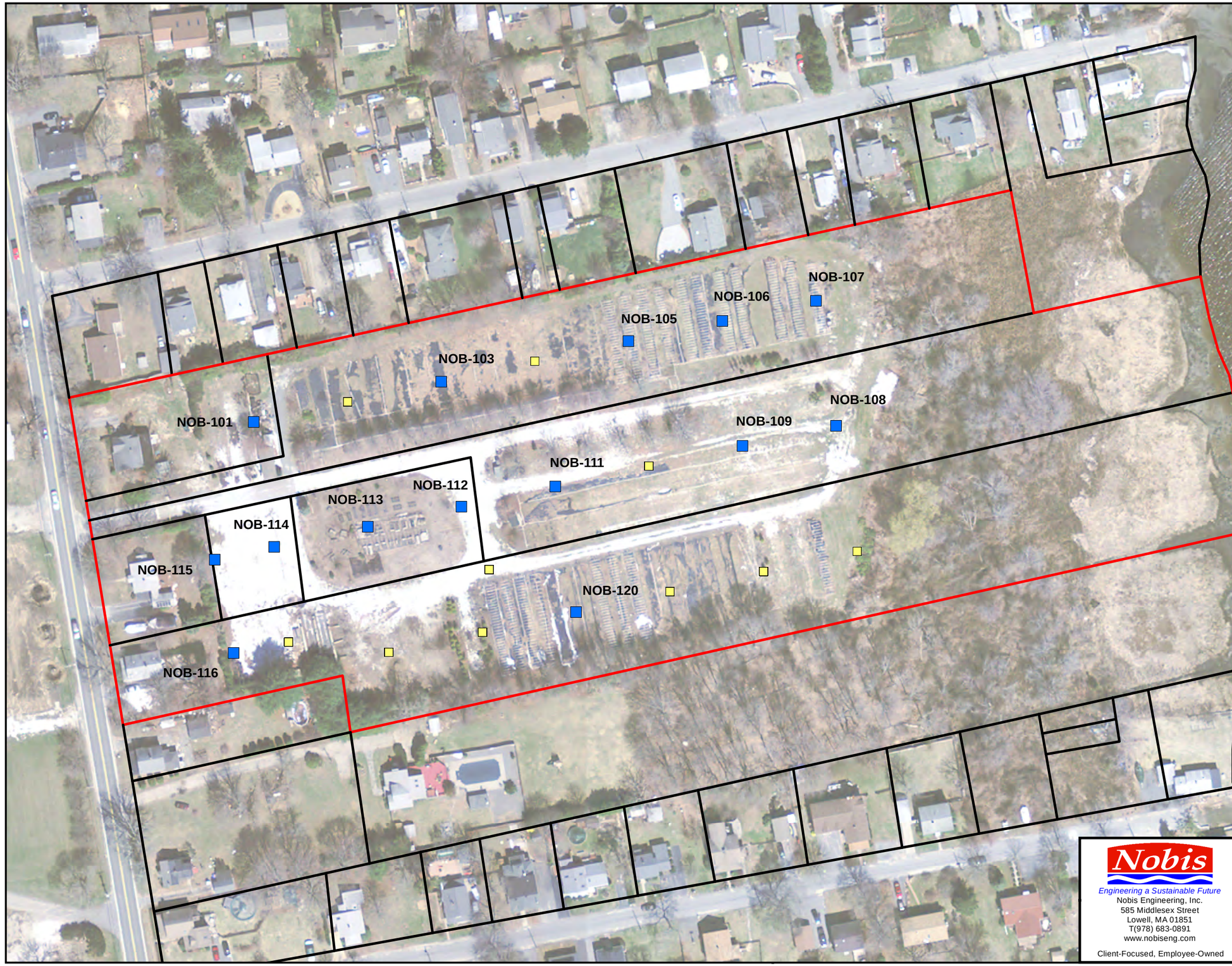
FIGURE 3A

ARSENIC IMPACTS TO
SHALLOW SOIL (0-2 FEET BGS)
91 - 97 SOWAMS ROAD
BARRINGTON, RHODE ISLAND

PREPARED BY: JH	CHECKED BY: TC
PROJECT NO. 80108.02	DATE: OCTOBER 2015

Path: R:\80000 Task Orders\80108 Brownfields Multi-Site\GIS\Palmer Pointe\Figures\Figure 3A Palmer Point As 0-2.mxd Date Printed: 11/3/2015



Notes:

1. Soil samples were collected from 9/28/15 - 9/30/15.

2. Exceedances are based on State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure.

3. Location of site features depicted hereon is approximate and given for illustrative purposes only.

Legend

- Arsenic Exceeds RIDEM Residential Direct Exposure Criteria (7 mg/Kg)
- Arsenic Less Than RIDEM Residential Direct Exposure Criteria (7 mg/Kg)
- Site Boundary
- Other Property Lines

0 50 100 200
Feet
1 inch = 100 feet

N

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FIGURE 3B

ARSENIC IMPACTS TO
SOIL AT DEPTH (5-16 FEET BGS)
91 - 97 SOWAMS ROAD
BARRINGTON, RHODE ISLAND

PREPARED BY: JH	CHECKED BY: TC
PROJECT NO. 80108.02	DATE: OCTOBER 2015

Path: R:\80000 Task Orders\80108 Brownfields Multi-Site\GIS\Palmer Pointe\Figures\Figure 3B Palmer Point As 05-16.mxd Date Printed: 11/3/2015

Notes:

1. Soil samples were collected from 9/28/15 - 9/30/15.

2. Exceedances are based on State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure.

3. Location of site features depicted hereon is approximate and given for illustrative purposes only.

4. No metals exceedances reported in shallow soil.

Legend

- Dieldrin Less Than RIDEM Residential Direct Exposure Criteria (40 µg/Kg)
- Dieldrin Exceeds RIDEM Residential Direct Exposure Criteria (40 µg/Kg)
- Site Boundary
- Other Property Line

0 50 100 200
Feet
1 inch = 100 feet

N

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FIGURE 4A

PESTICIDE AND METALS IMPACTS TO SHALLOW SOIL (0-2 FEET BGS)
91 - 97 SOWAMS ROAD
BARRINGTON, RHODE ISLAND

PREPARED BY: JH	CHECKED BY: TC
PROJECT NO. 80108.02	DATE: OCTOBER 2015

Path: R:\80000 Task Orders\80108 Brownfields Multi-Site\GIS\Palmer Pointe\Figures\Figure 4A Palmer Point Pest 0-2.mxd Date Printed: 11/3/2015

Notes:

1. Soil samples were collected from 9/28/15 - 9/30/15.

2. Exceedances are based on State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure.

3. There were no exceedances of pesticides at depth 5-16 ft bgs.

4. Location of site features depicted hereon is approximate and given for illustrative purposes only.

Legend

- Manganese Exceeds RIDEM Residential Direct Exposure Criteria (390 mg/Kg)
- Manganese Less Than RIDEM Residential Direct Exposure Criteria (390 mg/Kg)
- Site Boundary
- Other Property Lines

0 50 100 200
Feet
1 inch = 100 feet

N

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FIGURE 4B

PESTICIDE AND METALS (EXCEPT As)
IMPACTS TO SOIL AT DEPTH (5-16 FEET BGS)
91 - 97 SOWAMS ROAD
BARRINGTON, RHODE ISLAND

PREPARED BY: JH	CHECKED BY: TC
PROJECT NO. 80108.02	DATE: OCTOBER 2015

Path: R:\80000 Task Orders\80108 Brownfields Multi-Site\GIS\Palmer Pointe\Figures\Figure 4B Palmer Point Pest 5-16.mxd **Date Printed:** 11/3/2015

APPENDIX A

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-101**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 29, 2015

Date Finish: September 29, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
1	S-1	40	0-5						S-1A (18"): Orange-brown, fine SAND, some Silt, trace coarse Sand and Gravel. dry.	1
2										
3					0.0				S-1B (22"): Light brown, fine SAND, some Silt, little medium Sand, trace medium Sand and Gravel. dry. Approx. depth is 22.	
4										
5					0.0					
6	S-2	60	5-10						S-2A (12"): Light brown, fine silty sand, little fine Sand, trace medium Sand and Gravel. dry.	
7					0.0					
8									S-2B (48"): Dark gray, SILT, trace fine to coarse Sand, trace Gravel. moist.	
9					0.0					2
10										
11									S-3: Dark gray, SILT, trace fine to coarse Sand, trace Gravel. moist.	
12	S-3	47	11-15		0.0					
13										
14					0.0					
15									Probe refusal. Boring terminated at 14 feet.	
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 8-10 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-102**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 28, 2015

Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	44	0-5		0.1				S-1: Brown, fine to coarse SAND, some Silt. dry.	
1										1
2										
3										
4										
5										
	S2	50	5-9						S-2: Tan, fine to medium SAND, trace Silt, light gray rock fragments (2").	
6					0.1					
7										
8										2
9										
10									Probe refusal. Boring terminated at 9 feet.	
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 7-9 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-103**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 28, 2015

Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
	S1	47	0-5		0.1				S-1A (23"): Brown to tan, SILT. dry.	
1										1
2										
3									S-1B (23"): Tan, SAND & SILT, little Rock Fragments. dry.	
4										
5					0.1					
	S2	60	5-10						S-2A (39"): Tan, SAND & SILT, little Rock Fragments. dry.	
6										
7										
8					0.1					
9									S-2B (9"): Grey, rock fragments. dry.	
10									S-2C (12"): Tan, Clayey SILT, little Rock Fragments. dry.	
	S3	30	10-13		0.1				S-3A (14"): Tan, silty sand, Rock Fragments. dry.	
11										
12					0.1				S-3B (14"): Tan, Sandy SILT. dry.	
13										
14									Probe refusal. S-3C (2"): Grey, rock fragments. dry. Boring terminated at 13 feet.	2
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 13-15 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-104**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 28, 2015

Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	48	0-5		0.1				S-1A (30"): Brown, SAND & SILT. dry.	
1										1
2										
3										
4										
5									S-1B (18"): Tan, SAND & SILT. dry.	
	S2	52	5-9							
6					0.1				S-2A (35"): Tan, fine to coarse SAND.	
7										
8										2
9									S-2B (17"): Tan, medium to coarse SAND.	
									Probe refusal. Boring terminated at 9 feet.	
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 7-9 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-105**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 28, 2015
Date Finish: September 29, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	43	0-5		0.1				S-1A (21"): Brown, SAND & SILT, trace Gravel. dry.	
1										
										1
2										
3										
					0.1				S-1B (22"): Olive brown, SAND & SILT. dry.	
4										
5										
									S-2A (48"): Olive brown, SAND & SILT. dry.	
6										
	S2	60	6-11							
7										
					0.1					2
8										
9										
					0.1				S-2B (12"): Gray, weathered rock fragments.	
10										
									S-3: Gray, weathered rock fragments.	
11										
	S3	57	11-16							
12										
					0.1					
13										
14										
15										
									Advance air hammer from 15 to 30 feet bgs and install temporary monitoring well.	
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 7-9 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
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Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-105**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 28, 2015

Date Finish: September 29, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
23										
24										
25										
26										
27										
28										
29										
30									Boring terminated at 30 feet.	
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 7-9 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-106**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 28, 2015
Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S1	60	0-5		0.1				S-1 (60"): Brown, SAND & SILT, trace Gravel.	
1										1
2										
3										
4										
5										
	S2	47	5-10						S-2 (47"): Gray, SAND & SILT, weathered rock fragments.	
6										
7										
8					0.1					
9										
10					0.1					
	S3	56	10-15						S-3A (28"): Gray, SAND & SILT, weathered rock fragments.	
11										
12					0.1					
13										2
14					0.1				S-3B (28"): Gray, weathered rock fragments.	
15										
16									Reached target depth. Boring terminated at 15 feet.	
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 12-14 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-107**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 28, 2015
Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	39	0-5		0.1				S-1: Brown, SAND & SILT, trace Gravel.	
1										1
2										
3										
4										
5										
	S-2	51	5-10		0.1				S-2A (25"): Tan, Sandy SILT, little Rock Fragments, trace Gravel. dry.	
6										
7										
8										
9										
10									S-2B (25"): Light gray, Clayey SILT. dry.	
	S-3	55	10-15		0.1					
11									S-3: Tan, Sandy SILT, little Rock Fragments, little Gravel. dry.	
12										
13										
14										
15										2
	S-4	26	15-17		0.1				S-4: Tan, Sandy SILT, little Gravel. dry.	
16										
17										
18									Boring terminated at 17 feet.	
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 14-16 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-108**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 30, 2015

Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
1	S-1	42	0-5		0.0				S-1 (42"): Brown, fine SAND, some Silt, little medium to coarse Sand, little gravel. dry.	1
2										
3										
4										
5										
6	S-2	60	5-10		0.0				S-2 (60"): Brown, fine SAND, some Silt, little medium to coarse Sand, little gravel. dry.	
7										
8										
9										
10										
11	S-3	21	10-12		0.0				S-3A (9"): Brown, fine SAND, some Silt, little medium to coarse Sand, little gravel. dry.	2
12									S-3B (12"): Weathered rock. dry.	
13									Probe refusal. Boring terminated at 12 feet.	
14										
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 10-12 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-109**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 30, 2015
Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	40	0-5					S-1 (40"): Brown, fine SAND, some Silt, little fine to coarse Sand, little gravel. moist.	
1									1
2									
3									
4									
5									
	S-2	58	5-10					S-2 (58"): Light gray, fine SAND, some Silt, little fine to coarse Sand, little gravel. dry.	
6									
7									
8									
9									2
10									
	S-3	30	10-12.5					S-3 (30"): Light grey, fine SAND, some Silt, little fine to coarse Sand, little gravel. Weathered rock noted in bottom 4 inches..	
11									
12									
13								Probe refusal. Boring terminated at 12.5 feet.	
14									
15									
16									
17									
18									
19									
20									
21									
22									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from8-10 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-110**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 30, 2015
Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	45	0-5		0.0				S-1 (45"): Brown, fine SAND, some Silt, little fine to coarse Sand, little gravel.	1
1										
2										
3										
4										
5										
	S-2	48	5-9.5		0.0				S-2 (48"): Brown, fine SAND, some Silt, little medium to coarse Sand, little gravel.	2
6										
7										
8										
9										
10									Probe refusal. Boring terminated at 9.5 feet.	
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 5-7 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-111**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 30, 2015

Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	42	0-5		0.0				S-1 (42"): Brown, fine SAND, little medium to coarse Sand, little Silt. dry.	
1										1
2										
3										
4										
5										
	S-2	27	5-7.5		0.0				S-2 (27"): Light brown to light gray, fine SAND & SILT, little medium to coarse Sand, little Gravel. dry.	
6										
7										
8					0.0					2
9										
10									Probe refusal. Boring terminated at 9.5 feet.	
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 7-9 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-112**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 30, 2015

Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
	S-1	48	0-5					S-1: Brown, fine to medium SAND, some coarse Sand, little Silt, little Gravel. dry.	1
1									
2									
3									
4									
5									
	S-2	60	5-10					S-2: Brown, fine to medium SAND, some coarse Sand. dry.	
6									
7									
8									
9									
10									
	S-3	60	10-15					S-3: Brown, fine to coarse SAND, some Gravel. dry.	
11									
12									
13									
14									
15									
16								Reached target depth. Boring terminated at 15 feet.	
17									
18									
19									
20									
21									
22									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 12-14 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-113**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 28, 2015

Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
1	S-1	49	0-5		0.0				S-1A (32"): White, seashells, Mulch.	1
2										
3										
4									S-1B (2"): Brown, fine SAND, little Silt, little Gravel. dry. S-1C (3"): Grey, rock fragments.	
5									S-1D (6"): Brown, Clayey SILT, little Gravel. S-1E (6"): Tan, fine to medium SAND, little Gravel. dry.	
6	S-2	37	5-10		0.0				S-2A (6"): White, rock fragments, Pink rock fragments.	
7					0.0				S-2B (31"): Brown, SAND & SILT, little Gravel.	
8										
9					0.0					
10										
11	S-3	48	10-14						S-3: Gray, SAND & SILT, weathered rock and rock in sample tip.	
12					0.0					
13										2
14										
15					0.0				Advance air hammer from 14 to 30 feet bgs and install temporary monitoring well.	
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 12-14 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-113**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 28, 2015

Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
23										
24										
25									Possible fracture noted at approximately 25 feet.	
26										
27										
28										
29										
30									Boring terminated at 30 feet.	
31										
32										
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 12-14 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-114**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 28, 2015
Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	48	0-5		0.0				S-1A (12"): Dark brown, fine SAND, some Silt, trace medium to coarse Sand, trace gravel. dry.	
1									S-1B (36"): Light brown, fine SAND, little medium to coarse Sand, little Gravel. dry.	1
2										
3										
4										
5					0.0					
	S-2	56	5-10						S-2A (12"): Light brown, fine SAND, little medium to coarse Sand, little Gravel. dry.	
6										
									S-2B (12"): Crushed cobbles.	
7										
					0.0				S-2C (32"): Brown, fine SAND, some medium to coarse Sand, some Gravel. dry.	
8										
9										
10										
	S-3	24	10-12						S-3: Brown, fine SAND, some medium to coarse Sand, some Gravel. dry.	2
11										
					0.0					
12										
									Probe refusal.	
13									Boring terminated at 12 feet.	
14										
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 10-12 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-115**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 29, 2015

Date Finish: September 29, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	44	0-5		0.0				S-1A (12"): Dark brown, fine SAND, some Silt, trace medium to coarse Sand, trace Gravel. dry.	1
1										
2										
3										
					0.0				S-1B (32"): Light brown, fine SAND, little medium Sand, little Silt, trace coarse Sand, trace Gravel. dry.	
4										
5										
					0.0					
6										
	S-2	58	6-11						S-2A (12"): Light brown, fine SAND, little medium Sand, little Silt, trace coarse Sand, trace Gravel. dry.	
7										
					0.0					
8										
9									S-2B (20"): Light brown, fine SAND, some Silt, little medium to coarse Sand. dry.	
					0.0					
10										
11									S-2C (36"): Dark grey and brown, fine to coarse SILT, trace Gravel. moist.	2
	S-3	48	11-15		0.0					
12										
13									S-3: Dark grey and brown, fine to coarse SILT, trace Gravel. moist.	
					0.1					
14										
15									Probe refusal. Boring terminated at 14 feet.	
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 10-12 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-116**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 29, 2015
Date Finish: September 29, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	42	0-5		0.0				S-1A (12"): Dark brown, fine SAND, some Silt,trace of coarse Sand, trace Gravel. dry.	
1										
2										
3										
					0.0				S-1B (30"): Orange brown, fine SAND, some medium to coarse Sand, little Silt, little Gravel. dry.	
4										
5										
	S-2	60	5-10							
6										
									S-2A (24"): Orange brown, fine SAND, some medium to coarse Sand, little Silt, little Gravel. dry.	
7										
					0.0					
8										
									S-2B (36"): Light brown to light gray, SILT, some Silt, some fine Sand, little medium to coarse Sand. dry.	
9										
					0.0					
10										
	S-3	36	10-12.7						S-3 (36"): Light brown to light gray, SILT, some Silt, some fine Sand, little medium to coarse Sand, weathered rock noted at bottom of sample. dry.	
11										
12										
13										
									Probe refusal. Boring terminated at 13 feet.	
14										
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
) Sample collected from 0-2 feet for lab analysis.
) Sample collected from 11-13 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-117**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 29, 2015

Date Finish: September 29, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	32	0-5		0.0				S-1A (12"): Dark brown, fine SAND, little Silt, trace medium to coarse Sand. dry.	
1										1
2										
3										
					0.0				S-1B (20"): Light brown, fine SAND, little Silt, trace medium to coarse Sand,little Gravel. dry.	
4										
5										
					0.0					2
6										
	S-2	42	6-11						S-2: Light brown, fine SAND, little medium to coarse Sand, little Gravel.	
7										
					0.0					
8										
9										
10										
	S-3	46	10-14		0.0				S-3: Light brown, fine SAND, little medium to coarse Sand, little Gravel.	
11										
12										
13										
									Probe refusal.	
14										
									Boring terminated at 14 feet.	
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 5-7 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-118**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 29, 2015

Date Finish: September 29, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	40	0-5		0.0				S-1A (12"): Dark brown, fine SAND, little Silt, trace medium to coarse Sand. dry.	
1										1
2										
3										
					0.0				S-1B (28"): Light brown, fine SAND, little Silt, little medium to coarse Sand, little Gravel. dry.	
4										
5										
6										
	S-2	60	6-11		0.0				S-2: Light brown, fine SAND, some Silt, little medium to coarse Sand, little Gravel.	
7										
8										
9										
10										
11										2
	S-3	36	11-13.7		0.0				S-3: Light brown, fine SAND, some Silt, little medium to coarse Sand, little Gravel.	
12										
13										
14										
15									Probe refusal. Boring terminated at 13 feet.	
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 10-12 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-119**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 30, 2015
Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	50	0-5					S-1: Brown, fine SAND, some medium to coarse Sand, little Gravel, trace Silt. dry.	
1									1
2									
3									
4									
5									
	S-2	55	5-10					S-2A (30"): Brown, fine SAND, some medium to coarse Sand, little Gravel, trace Silt. dry.	2
6									
7									
								S-2B (25"): Brown, fine SAND, trace medium Sand, trace Silt. dry.	
8									
9									
10									
	S-3	48	10-14					S-3: Brown, fine SAND, some medium to coarse Sand, little Gravel, trace Silt. dry.	
11									
12									
13									
14									
15								Probe refusal. Boring terminated at 14 feet.	
16									
17									
18									
19									
20									
21									
22									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 5-7 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-120**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 30, 2015

Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Sample Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	Sample Description and Remarks (Classification System: Modified Burmister)	Notes
	S-1	40	0-5		0.0				S-1: Brown, fine to coarse SAND, some Gravel, trace Silt. dry.	
1										1
2										
3										
4										
5					0.0					
	S-2	52	5-10						S-2: Brown, fine to coarse SAND, some Gravel, trace Silt. dry.	
6										
7					0.0					
8										
9					0.0					2
10										
11					0.0					
12										
13										
14					0.0					
15									Probe refusal. Boring terminated at 14 feet.	
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 8-10 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-121**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 28, 2015
Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	48	0-5					S-1A (24"): Brown, fine SAND & SILT, trace Gravel. dry.	
1									1
2									
3									
4								S-1B (24"): Brown, fine to medium SAND, little Silt, little Gravel.	
5									
	S-2	52	5-10					S-2: Grey, SAND & SILT, little Gravel, weathered rock fragments noted.	
6									
7									
8									
9									
10									
	S-3	48	10-14						
11									
12								S-3A (45"): Brown and grey, SAND & SILT, little Gravel.	
13									2
14									
15								S-3B (3"): Grey, fine to medium SAND, little Gravel, little Silt, weathered rock noted.	
16								Air hammer advanced from 14 to 30 feet bgs and install temporary monitoring well.	
17									
18									
19									
20									
21									
22									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 12-14 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-121**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 28, 2015

Date Finish: September 28, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
23									
24									
25									
26									
27									
28									
29									
30								Boring terminated at 30 feet.	
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 12-14 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point
Location: Barrington RI
Nobis Project No.: 80108.02

Boring No.: **NOB-122**
Boring Location: See Site Plan
Checked by: T. Costa
Date Start: September 30, 2015
Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.
Driller: C. Hogan
Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT
Hammer Type: Hydraulic Hammer
Hammer Hoist: Hydraulic

Ground Surface Elev.:
Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	50	0-5		0.0				S-1: Light brown, fine SAND, some medium to coarse Sand, little Silt, little Gravel. dry.	1
1										
2										
3										
4					0.0					
5										
	S-2	54	5-10						S-2: Light brown and light grey, fine SAND & SILT, little medium to coarse Sand, little Gravel. dry.	
6										
7					0.0					
8										
9					0.0					
10										
	S-3	50	10-15		0.0				S-3: Light brown, SILT, some fine Sand, trace medium to coarse Sand, trace Gravel. dry.	
11										
12										
13										
14										2
15										
16									Reached target depth. Boring terminated at 15 feet.	
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:
1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 13-15 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis
Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-123**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 30, 2015

Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	52	0-5		0.0				S-1: Brown, fine SAND, some medium to coarse Sand, little Silt, little Gravel. moist.	1
1										
2										
3										
4										
5										
	S-2	40	5-10		0.0				S-2: Brown, fine SAND, some medium to coarse Sand, little Silt, little Gravel. moist.	1
6										
7										
8										
9										
10										
	S-3	46	10-14		0.0				S-3: Light brown, SILT, little fine Sand, trace medium to coarse Sand, trace Gravel. moist.	
11										
12										
13										
14										
15									Probe refusal. Boring terminated at 14 feet.	
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
1) Sample collected from 5-7 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

BORING LOG

Nobis — Engineering a Sustainable Future

Project: Palmer Point

Location: Barrington RI

Nobis Project No.: 80108.02

Boring No.: **NOB-124**

Boring Location: See Site Plan

Checked by: T. Costa

Date Start: September 30, 2015

Date Finish: September 30, 2015

Contractor: Drilex Environmental, Inc.

Driller: C. Hogan

Nobis Rep.: A.Roy

Rig Type / Model: Geoprobe 6620DT

Hammer Type: Hydraulic Hammer

Hammer Hoist: Hydraulic

Ground Surface Elev.:

Datum:

	Drilling Method	Sampler
Type	Geoprobe	Macro-Core Liners
Size ID (in.)		2
Advancement	Direct Push	Push

Groundwater Observations

Date	Time	Depth Below Ground (ft.)	Depth of Casing (ft.)	Depth to Bottom of Hole (ft.)	Stabilization Time

Depth (ft.)	SAMPLE INFORMATION Type & No.	Rec (in.)	Depth (ft.)	Blows/ 6 in.	PID (ppm)	Ground Water	LITHOLOGY Graphic	Stratum Elev. / Depth (ft.)	SAMPLE DESCRIPTION AND REMARKS (Classification System: Modified Burmister)	NOTES
	S-1	56	0-5		0.0				S-1 (56"): Brown, fine to coarse SAND, little Silt, little Gravel. dry.	
1										1
2										
3										
4										
5										
6									S-2 (40"): Brown, fine to coarse SAND, little Silt, little Gravel. dry.	
	S-2	40	6-10							
7										
8					0.0					2
9										
10									Probe refusal. Boring terminated at 9 feet.	
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										

Soil	Percentage	Non-Soil
trace	5 - 10	very few
little	10 - 20	few
some	20 - 35	several
and	35 - 50	numerous

NOTES:

1) Sample collected from 0-2 feet for lab analysis.
2) Sample collected from 7-9 feet for lab analysis.

Soil descriptions are based on visual classifications and should be considered approximate. Stratification lines are approximate boundaries between stratums; transitions may be gradual.

ENVIRONMENTAL LOG - NOBIS GINT DATA TEMPLATE OCT 7 2011.GDT - 10/7/15 14:02 - R:\80000 TASK ORDERS\80108 BROWNFIELDS MULTI-SITE\TECHNICAL\PALMER POINTE BARRINGTON\BORING LOGS.GPJ

APPENDIX B

Nobis
Engineering a Sustainable Future

Low-Flow Field Log

Site Name: Palmer Pointe
Job Number: 80108.02
Sampler: ACA

Date: 9/30/15
Page: ___ of ___
Well ID: NOB-105
Sample ID: NOB-105-GW
Reviewed By:

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 15.20 (ft from MP)
Depth to Bottom: 30 (ft from MP)
Pump Intake Depth: 25 (ft from MP)
Well depth as installed: 30 (ft bgs)
Screen interval (range): ___ (ft bgs)

Purging start time: 1445
Parameter stabalization (Y/N): yes
Two hour time limit reached (Y/N): yes
Sample time: 1610
Total volume purged (gals): 6.5
Time at purge completion: 1608

Equipment Vendor: US Environmental
Pump Type: Geri
Turbidity Meter: HACH 2100Q
Serial #: 15040090472
Multimeter: 556 MPS YSI
Serial #: 06K1082

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses: PCB/Pest/VOC/TPH/EDB/Metals/SVOCs/cyanide

QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec, or setting	ml/min	ft. below MP	ft.	ft.	°C	µS/cm°		mV	mg/L	NTU		
0:00													
1450	~~22~~	220	15.20	0.0	0.0								
1455		220	15.21	0.01	0.01	15.03	412	6.13	325.0	3.22	138		
1500		220	15.21	0.0	0.01	15.03	403	5.59	295.2	3.76	85.1		
1505		220	15.21	0.0	0.01	14.88	400	5.68	272.8	4.00	46.2		
1510		220	15.21	0.0	0.01	14.97	386	5.70	264.1	4.90	23.4		
1515		220	15.21	0.0	0.01	14.92	368	5.70	258.4	5.76	21.1		
1520		220	15.21	0.0	0.01	14.75	355	5.60	258.8	6.50	15.0		
1525		220	15.21	0.0	0.01	14.76	347	5.54	258.5	6.82	12.9		
1530		220	15.22	0.01	0.02	14.84	349	5.65	249.8	6.12	—		
1535		220	15.22	0.00	0.02	14.77	336	5.47	255.3	7.41	9.21		
1540		220	15.22	0.00	0.02	14.78	332	5.38	257.6	7.70	9.53		
1545		220	15.22	0.00	0.02	14.82	330	5.33	257.9	8.02	8.96		
1550		220	15.23	0.01	0.03	14.89	328	5.32	256.9	8.34	5.77		
1555		220	15.23	0.01	0.03	14.68	327	5.30	256.1	8.38	5.52		
1600		220	15.23	0.01	0.03	14.84	325	5.28	255.5	8.77	5.88		

SOP No: SA-003 Draft Revision: 4

Nobis
Engineering a Sustainable Future

Low-Flow Field Log

Site Name: Palmer Pointe
Job Number: 80108.02
Sampler: DM

Date: 9/30/15
Page: ___ of ___
Well ID: NOB-12.1
Sample ID:
Reviewed By:

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 12.85' (ft from MP)
Depth to Bottom: ___ (ft from MP)
Pump Intake Depth: ___ (ft from MP)
Well depth as installed: 30 (ft bgs)
Screen interval (range): ___ (ft bgs)

Purging start time: 1130 1130
Parameter stabalization (Y/N): No
Two hour time limit reached (Y/N): yes
Sample time: 1340
Total volume purged (gals): 5
Time at purge completion: 1440

Equipment Vendor: US Environmental
Pump Type: Rev i
Turbidity Meter: HACH 2100Q Serial #: 15040C04 0972
Multimeter: 556 MPS, YSI Serial #: 06K1082

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses: PCBs/Pest/VOC/EBP/TPH/SVOC/Metals/Cyanide
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	°C	µS/cm°		mV	mg/L	NTU		
0:00													
1130		120	12.89	0.04	0.04	~~0.43~~	—	—	—	—	—		
1140		120	12.89	0.0	0.04		—	—		—	—		
1145		120	12.89	0.0	0.04	16.43	210	6.97	393.1	12.16	78.2		
1150		120	12.91	0.02	0.06	16.44	205	6.63	322.5	11.77	96.2		
1155		120	12.91	0.0	0.06	16.36	~~+6~~ 203	6.09	329.5	11.60	93.6		
1200		120	12.91	0.0	0.06	16.20	200	6.28	307.5	11.38	121		
1205		120	12.93	0.02	0.08	16.36	196	6.31	296.4	11.41	138		
1210	DM	120	12.94	0.01	0.09	16.55	191	6.37	282.6	11.34	134		
1215		120	12.94	0.0	0.09	16.31	186	6.32	277.5	11.40	129		
1220		120	12.95	0.01	0.10	16.29	183	6.26	274.4	11.39	133		
1225		120	12.96	0.01	0.11	16.42	178	6.20	271.6	11.13	135		
1230		120	12.96	0.0	0.11	16.58	174	6.16	269.9	11.12	131		
1235		120	12.96	0.0	0.11	17.00	171	6.12	267.4	11.00	123.2		
1240		120	12.96	0.0	0.11	16.88	169	6.11	266.0	11.05	110		
1245		120	12.97	0.01	0.12	16.10	167	6.07	269.4	11.31	88.9		
1250		120	12.97	0.0	0.12	16.09	164	5.95	271.4	11.22	65.8		

SOP No: SA-003 Draft Revision: 4

Nobis
Engineering a Sustainable Future

Low-Flow Field Log

Site Name: Palmer Pointe
Job Number: 80108.02
Sampler: AG

Date: 9/30/15
Page: ___ of ___
Well ID: NOB-121
Sample ID:
Reviewed By:

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 12.85 (ft from MP)
Depth to Bottom: ___ (ft from MP)
Pump Intake Depth: ___ (ft from MP)
Well depth as installed: 30 (ft bgs)
Screen interval (range): ___ (ft bgs)

Purging start time: 1130
Parameter stabalization (Y/N): No
Two hour time limit reached (Y/N): yes
Sample time: 1340
Total volume purged (gals): 5
Time at purge completion: 1440

Equipment Vendor: US Environmental
Pump Type: Persi
Turbidity Meter: HACH 2100 Q
Serial #: 15040C040472
Multimeter: 556 MPS USI
Serial #: 06K1082

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses: PCBs/Pest/VOC/EBD/TPH/SVOC/metals/cyanide
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	°C	µS/cm[c]		mV	mg/L	NTU		
0:00													
1255		120	12.97	0.0	0.12	16.28	163	5.91	272.1	11.16	61.3		
1300		120	12.98	0.01	0.13	16.53	161	5.89	271.2	11.05	50.0		
1305		120	12.98	0.0	0.13	16.52	160	5.88	271.2	11.18	50.7		
1310		120	12.99	0.01	0.14	16.15	159	5.85	270.0	11.32	36.2		
1315		120	12.99	0.0	0.14	15.95	156	5.80	271.1	11.33	33.9		
1320		120	12.99	0.0	0.14	15.90	155	5.73	271.1	11.35	31.5		
1325		120	12.99	0.0	0.14	15.90	153	5.67	272.8	11.26	28.7		
1						15.93	151	5.63	273.1	11.22	29.0		

AG

SOP No: SA-003 Draft Revision: 4

Nobis
Engineering a Sustainable Future

Low-Flow Field Log

Site Name: Palmer Pointe
Job Number: 80108.02
Sampler: AG

Date: 9/23/15
Page: 1 of 2
Well ID: WELL-1
Sample ID: WELL-1 + DUP-01-GW
Reviewed By:

Measurement Reference Point (MP): Casing (PVC, Casing, Ground, etc.)
Depth to GW: 17.19 (ft from MP)
Depth to Bottom: 186.1 (ft from MP)
Pump Intake Depth: 35.2 (ft from MP)
Well depth as installed: _____ (ft bgs)
Screen interval (range): _____ (ft bgs)

Purging start time: 1055
Parameter stabalization (Y/N): Yes
Two hour time limit reached (Y/N): No Yes
Sample time: 12:55
Total volume purged (gals): 7
Time at purge completion: 1427

Equipment Vendor: US Environmental
Pump Type: Peri Pump
Turbidity Meter: NA
Serial #: NA
Multimeter: 556 MPS
Serial #: 06K1082

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses: Diss. Metals/Metals/VOCs/Pest/PCB/TPH/EDB/Cyanide
QC Info (Duplicate, MS/MSD) Dup-01-GW

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	°C	µS/cm°		mV	mg/L	NTU		
0:00													
1058		220	17.20	0.06	0.06								
1106		200	17.21	0.01	0.07	14.98	540	7.96	228.3	0.19			
1111		200	17.21	0.0	0.07	14.99	514	7.79	200.0	0.39			
1121		200	17.21	0.0	0.07	15.06	634	7.17	187.3	0.27			
1126		220	17.24	0.03	0.10	14.56	635	7.31	152.3	0.24			
1131		220	17.24	0.0	0.10	14.99	633	7.35	134.4	0.22			
1136		220	17.24	0.0	0.10	15.01	633	7.47	116.6	0.22			
1141		220	17.24	0.0	0.10	14.95	634	7.52	100.9	0.21			
1146		220	17.24	0.0	0.10	15.09	634	7.55	86.9	0.21			
1151		220	17.24	0.0	0.10	14.91	635	7.60	73.3	0.21			
1156		220	17.24	0.0	0.10	14.98	636	7.63	60.2	0.20			
1201	AG	220	17.24	0.0	0.10	14.90	636	7.66	46.9	0.19		AG	
1206		220	17.24	0.0	0.10	14.98	636	7.69	43.2	0.19			
1211		220	17.24	0.0	0.10	14.81	636	7.72	36.3	0.19			
1216		240	17.24	0.0	0.10	14.79	635	7.73	17.2	0.16			
1221		240	17.24	0.0	0.10	15.09	634	7.72	11.9	0.16			

Note: U.S environmental brought colorimeter instead of turbidity meter. will take turb. readings when they deliver

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Nobis
Engineering a Sustainable Future

Low-Flow Field Log

Site Name: Palmer Pointe
Job Number: 80108.02
Sampler: AG

Date: 9/28/15
Page: 2 of 2
Well ID: WELL-1
Sample ID: WELL-1 + DUP-01-GW
Reviewed By:

Measurement Reference Point (MP): casing (PVC, Casing, Ground, etc.)
Depth to GW: 17.14 (ft from MP)
Depth to Bottom: 186.1 (ft from MP)
Pump Intake Depth: 35.2 (ft from MP)
Well depth as installed: 1 (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 1055
Parameter stabalization (Y/N): yes
Two hour time limit reached (Y/N): ~~no~~ yes
Sample time: 1255
Total volume purged (gals): 7
Time at purge completion: 1422

Equipment Vendor: U.S Environmental
Pump Type: peristaltic pump
Turbidity Meter: NA
Serial #: NA
Multimeter: 556 MPS
Serial #: 06K1082

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses: Diss. Metals/Tot. Metals/VOCs/Pest/PCB/EDB/cyanide
QC Info (Duplicate, MS/MSD): Dup-01-GW

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	°C	µS/cm[c]		mV	mg/L	NTU		
0:00													
1239		240	17.24	0.0	0.10	15.15	636	7.72	-9.5	0.15			
1242 ~~1239~~		240	17.24	0.0	0.10	15.21	636	7.72	-6.6	0.16			
1247		240	17.24	0.0	0.10	15.26	636	7.70	-4.3	0.15			
		Stabilization											

AG

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Engineering a Sustainable Future

Low-Flow Field Log

Site Name: Palmer Pointe
Job Number: 80108.02
Sampler: AG

Date: 9/29/15
Page: of
Well ID: WELL-2
Sample ID:
Reviewed By:

Measurement Reference Point (MP): casing (PVC, Casing, Ground, etc.)
Depth to GW: 19.40 (ft from MP)
Depth to Bottom: ~~23.0~~ 59.8 (ft from MP)
Pump Intake Depth: 23.0 (ft from MP)
Well depth as installed: (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 1138
Parameter stabalization (Y/N): yes
Two hour time limit reached (Y/N): NO
Sample time: 1310
Total volume purged (gals): 12
Time at purge completion: 1230

Equipment Vendor: US Environmental with
Pump Type: Peri
Turbidity Meter: YSI 556 MPS
Serial #: 06K1082
Turb. Multimeter: HACH 2100Q
Serial #: 15040C040472

Notes (Initial PID reading, SOP deviations, etc.):
Lab Analyses: AG
QC Info (Duplicate, MS/MSD): MS/MSD

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	°C	µS/cm		mV	mg/L	NTU		
0:00													
1143		400	19.42	0.02	0.02								
1206		400	19.43	0.01	0.03	13.88	4.09	6.53	275.1	2.04	4.17		
1215		400	19.44	0.00	0.04	13.34	338	4.24	288.5	0.49	4.18		
1220		400	19.44	0.0	0.04	13.38	339	4.28	271.0	0.61	2.15		
1225		400	19.45	0.01	0.05	13.28	339	4.55	251.2	0.50	3.01		
1230		400	19.45	0.0	0.05	13.56	339	4.72	238.4	0.41	4.54		
1235		400	19.46	0.01	0.06	13.45	340	4.86	228.5	0.42	3.05		
1240		400	19.46	0.0	0.06	13.41	340	4.99	220.3	0.41	4.86		
1245		400	19.46	0.0	0.06	13.41	342	5.08	214.2	0.42	3.41		
1250		400	19.46	0.0	0.06	13.31	343	5.16	209.1	0.42	2.22		
1255		400	19.46	0.0	0.06	13.38	344	5.18	207.2	0.49	3.22		
1300		400	19.46	0.0	0.06	13.41	345	5.23	204.5	0.45	4.75		

AG

STABILIZE

AG

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Nobis
Engineering a Sustainable Future

Low-Flow Field Log

Site Name: Palmer Pointe
Job Number: 8010B.02
Sampler: AG

Date: 9/30/15
Page: of
Well ID: NOB-113
Sample ID:
Reviewed By:

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 15.89 (ft from MP)
Depth to Bottom: 30 (ft from MP)
Pump Intake Depth: 25 (ft from MP)
Well depth as installed: 30 (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 0821
Parameter stabalization (Y/N):
Two hour time limit reached (Y/N):
Sample time:
Total volume purged (gals):
Time at purge completion:

Equipment Vendor: US Environmental
Pump Type: Peri

Turbidity Meter: ~~15040~~ HACH 2100Q
Serial #: 15040C090172

Multimeter: 556 MPS YSI
Serial #:

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	°C	µS/cm°		mV	mg/L	NTU		
0:00													
0839		120	16.37	0.48	0.48								
0846		120	16.42	0.05	0.53	15.97	569	6.03	197.1	8.53	61.1		
0851		140	16.44	0.02	0.55	15.77	545	5.06	228.9	7.11	45.2		
0856		140	16.47	0.03	0.58	15.57	539	5.09	226.5	6.92	56.6		
0901		140	16.49	0.02	0.60	15.72	537	5.20	219.3	6.07	45.1		
0906		140	16.49	0.0	0.60	15.79	534	5.26	216.1	5.97	43.1		
0911		140	16.50	0.01	0.61	15.75	530	5.15	219.2	5.63	36.4		
0916		140	16.50	0.0	0.61	15.18	526	5.26	213.7	5.31	31.8		
0921		160	16.51	0.01	0.62	15.48	522	5.33	208.2	4.94			
0926		160	16.51	0.0	0.62	15.77	523	5.38	208.9	4.57	29.4		
0931		160	16.51	0.0	0.62	15.84	522	5.41	204.5	4.35	21.5		
0936		160	16.51	0.0	0.62	15.66	521	5.42	201.1	4.04	22.0		
0941		160	16.52	0.01	0.63	15.62	522	5.41	199.9	3.89	17.6		
0946		160	16.53	0.01	0.69	15.60	519	5.39	198.6	3.62	19.2		
0951		160	16.54	0.01	0.70	15.51	518	5.40	197.9	3.50	21.5		
0956		160	16.57	0.03	0.73	15.56	517	5.40	197.5	3.44	22.5		

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19.1

Nobis
Engineering a Sustainable Future

Low-Flow Field Log

Site Name: Palmer Pointe
Job Number: 80108.02
Sampler: AG

Date:
Page: of
Well ID: NOB-11B
Sample ID:
Reviewed By:

Measurement Reference Point (MP): PVC (PVC, Casing, Ground, etc.)
Depth to GW: 15.89 (ft from MP)
Depth to Bottom: 30 (ft from MP)
Pump Intake Depth: 25 (ft from MP)
Well depth as installed: 30 (ft bgs)
Screen interval (range): (ft bgs)

Purging start time: 0821
Parameter stabalization (Y/N): yes
Two hour time limit reached (Y/N): yes
Sample time: 1010
Total volume purged (gals): 5
Time at purge completion: 1003

Equipment Vendor:
Pump Type:
Turbidity Meter:
Serial #:
Multimeter:
Serial #:

Notes (Initial PID reading, SOP deviations, etc.):

Lab Analyses:
QC Info (Duplicate, MS/MSD)

Clock Time	Bladder Pump Discharge/ Refill	Purge Rate	Depth to Water	Draw down	Cum. Draw down	Temp ±3%	Spec. Cond. ±3%	pH ±0.1	ORP ±10	DO ±10% if >0.5 mg/L	Turbidity ±10% if >5 NTU	Comments/Gas Pressure/Observations	Stability Calculator (auto)
HHMM	sec./sec. or setting	ml/min	ft. below MP	ft.	ft.	°C	µS/cm°		mV	mg/L	NTU		
0:00													
0910		100	16.59	0.02	0.75	15.52	518	5.40	197.3	3.40	22.7		

SOP No: SA-003 Draft Revision: 4

APPENDIX C

Report Date:
13-Oct-15 13:32

eurofins | Spectrum Analytical

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Nobis Engineering, Inc
585 Middlesex Street
Lowell, MA 01851

Attn: Gail DeRuzzo

Work Order: P1453
Project : Barrington, RI site
Project #:

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P1453-01	NOB-101-00002	Soil	29-Sep-15 13:50	30-Sep-15 13:00
P1453-02	NOB-101-0810	Soil	29-Sep-15 14:10	30-Sep-15 13:00
P1453-03	NOB-115-0002	Soil	29-Sep-15 14:25	30-Sep-15 13:00
P1453-04	NOB-115-1012	Soil	29-Sep-15 14:40	30-Sep-15 13:00
P1453-05	NOB-114-0002	Soil	29-Sep-15 15:00	30-Sep-15 13:00
P1453-06	NOB-114-0810	Soil	29-Sep-15 15:05	30-Sep-15 13:00
P1453-07	NOB-116-0002	Soil	29-Sep-15 15:30	30-Sep-15 13:00
P1453-08	NOB-116-1113	Soil	29-Sep-15 15:40	30-Sep-15 13:00
P1453-09	NOB-117-0002	Soil	29-Sep-15 16:00	30-Sep-15 13:00
P1453-10	NOB-117-0507	Soil	29-Sep-15 16:10	30-Sep-15 13:00
P1453-11	NOB-118-0002	Soil	29-Sep-15 16:30	30-Sep-15 13:00
P1453-12	NOB-118-1012	Soil	29-Sep-15 16:40	30-Sep-15 13:00
P1453-13	TRIP BLANK-02	Soil	29-Sep-15 17:30	30-Sep-15 13:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Eurofins Spectrum Analytical (ESA-RI) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1453

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

NOB-116-0002 (P1453-07C), recovery is above criteria for 1,2-Dichloroethane-d4 at 111% with criteria of (88-110).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integration was performed on the following:

VSTD0501H 2,2-Dichloropropane due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1453

SW846 8015D GRO, Gasoline Range Organic (GRO) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D GRO

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V4
Instrument Type: GC-FID/PID

Description: HP5890 A
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [um thickness] RTX-502.2 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

NA--Supervisor needs to explain why no internal standards were detected during the generation of this narrative.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data

quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1453

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi

Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes

are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integrations were performed on the following:

LCS-83199 Benzoic acid , Pentachlorophenol due to M6

SSTD0056T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid, Pentachlorophenol due to M6

SSTD0106T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid due to M6

SSTD0406T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0606T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0806T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Indeno(1,2,3-cd)pyrene due to M6

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Signed:_____ _____

Date:_____10/8/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1453

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.
GC Column used: 30 m X 0.53 mm ID [0.42 um thickness] CLPPestII capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

NOB-101-00002 (P1453-01A), recovery is below criteria for Decachlorobiphenyl on front column at 37% with criteria of (55-130).

NOB-115-1012 (P1453-04A), recovery is below criteria for Decachlorobiphenyl on front column at 44% with criteria of (55-130).

NOB-114-0002 (P1453-05A), recovery is below criteria for Decachlorobiphenyl on front column at 46% with criteria of (55-130).

NOB-116-0002 (P1453-07A), recovery is below criteria for Decachlorobiphenyl on front column at 54% with criteria of (55-130).

NOB-116-1113 (P1453-08A), recovery is below criteria for Decachlorobiphenyl on front column at 46% with criteria of (55-130).

NOB-117-0002 (P1453-09A), recovery is below criteria for Decachlorobiphenyl on front column at 44% with criteria of (55-130).

NOB-117-0507 (P1453-10A), recovery is below criteria for Decachlorobiphenyl on front column at 46% with criteria of (55-130).

NOB-118-1012 (P1453-12A) Surrogate outside of QC limit due to dilution, recovery is below criteria for Decachlorobiphenyl on front column at 49% with criteria of (55-130).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

The following samples were analyzed at dilution:

NOB-115-0002 (P1453-03A) : Dilution Factor: 2
NOB-118-0002 (P1453-11A) : Dilution Factor: 10
NOB-118-1012 (P1453-12A) : Dilution Factor: 2

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

The following samples were manually integrated:

PEMEI Tetrachloro-m-xylene on front column due to M3

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Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1453

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard

Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

NOB-101-00002 (P1453-01A), recovery is below criteria for Decachlorobiphenyl on rear column at 55% with criteria of (60-125) and Decachlorobiphenyl on front column at 58% with criteria of (60-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1453

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D TPH

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.32 mm ID [0.25 um thickness] Rtx-5MS capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1453

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6010C, SW846 7471B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B
Soil Samples were prepared following procedures in laboratory test code: SW7471B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA2
Instrument Type: ICP
Description: Optima 3100 XL
Manufacturer: Perkin-Elmer
Model: 3100 XL

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: NOB-118-1012 (P1453-12AMS).

Percent recoveries were within the QC limits with the following exceptions:

NOB-118-1012 (P1453-12AMS), recovery is below criteria for Antimony at 67% with criteria of (80-120).

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: NOB-118-1012 (P1453-12APDS).

NOB-118-1012 (P1453-12APDS) for Antimony due to recovery of this element outside of QC limits in the matrix spike.

E. **Duplicate sample:**

Duplicate analyses were performed on sample: NOB-118-1012 (P1453-12ADUP).

Relative percent differences were within the QC limits.

F. **Serial Dilution (SD):**

Serial Dilution analyses were performed on sample: NOB-118-1012 (P1453-12ASD).

Percent differences were within the QC limits with the exception of the following:

NOB-118-1012 (P1453-12ASD), Serial Dilution analysis not within control limit for Barium.

G. **Samples:**

No other unusual occurrences were noted during sample analysis.

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Signed: Shawn B Lawler

Date: 10/13/2015

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1453

SW846 7196A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 7196A

IV. PREPARATION

Samples were prepared following procedures in laboratory test code: SW846 7196A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: SPEC2
Instrument Type: SP
Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

VI. ANALYSIS

A. **Calibration:**

Calibrations met the method/SOP acceptance criteria.

B. **Blanks:**

All method blanks were within the acceptance criteria.

C. **Spikes:**

1. **Laboratory Control Spikes (LCS/LCSi):**

   Percent recoveries for lab control samples were within the QC limits.

2. **Matrix Spike / Matrix Spike Duplicate (MS/MSD/MSi/MSiD):**

   No client-requested MS/MSD analyses were included in this SDG.

D. **Duplicate sample:**

No client-requested laboratory duplicate analyses were included in this SDG.

E. **Dilutions:**

No sample required dilution in this SDG.

F. **Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: Shawn B Lawler

Date: 10/12/2015

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Chloromethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Vinyl chloride	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Bromomethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Chloroethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Trichlorofluoromethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,1-Dichloroethene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Acetone	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Carbon disulfide	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Methylene chloride	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
trans-1,2-Dichloroethene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Methyl tert-butyl ether	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,1-Dichloroethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
2-Butanone	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
cis-1,2-Dichloroethene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
2,2-Dichloropropane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Bromochloromethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Chloroform	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,1,1-Trichloroethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,1-Dichloropropene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Carbon tetrachloride	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2-Dichloroethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Benzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Trichloroethene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2-Dichloropropane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Dibromomethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Bromodichloromethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
cis-1,3-Dichloropropene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
4-Methyl-2-pentanone	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Toluene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
trans-1,3-Dichloropropene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,1,2-Trichloroethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,3-Dichloropropane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Tetrachloroethene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
2-Hexanone	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Dibromochloromethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2-Dibromoethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Chlorobenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Ethylbenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
m,p-Xylene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
o-Xylene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Xylene (Total)	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Styrene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Bromoform	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Isopropylbenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Bromobenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2,3-Trichloropropane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
n-Propylbenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
2-Chlorotoluene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
4-Chlorotoluene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
tert-Butylbenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
sec-Butylbenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
4-Isopropyltoluene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,3-Dichlorobenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,4-Dichlorobenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
n-Butylbenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2-Dichlorobenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2-Dibromo-3-chloropropane	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Hexachlorobutadiene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Naphthalene	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Diethyl ether	ND		5.0	ug/Kg	1	10/03/2015 2:42	83210
Tetrahydrofuran	ND		10	ug/Kg	1	10/03/2015 2:42	83210
Surrogate: Dibromofluoromethane	101		76-128	%REC	1	10/03/2015 2:42	83210
Surrogate: 1,2-Dichloroethane-d4	106		88-110	%REC	1	10/03/2015 2:42	83210
Surrogate: Toluene-d8	107		85-115	%REC	1	10/03/2015 2:42	83210
Surrogate: Bromofluorobenzene	94.0		85-120	%REC	1	10/03/2015 2:42	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Chloromethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Vinyl chloride	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Bromomethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Chloroethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Trichlorofluoromethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,1-Dichloroethene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Acetone	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Carbon disulfide	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Methylene chloride	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
trans-1,2-Dichloroethene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Methyl tert-butyl ether	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,1-Dichloroethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
2-Butanone	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
cis-1,2-Dichloroethene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
2,2-Dichloropropane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Bromochloromethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Chloroform	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,1,1-Trichloroethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,1-Dichloropropene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Carbon tetrachloride	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2-Dichloroethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Benzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Trichloroethene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2-Dichloropropane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Dibromomethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Bromodichloromethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
cis-1,3-Dichloropropene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
4-Methyl-2-pentanone	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Toluene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
trans-1,3-Dichloropropene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,1,2-Trichloroethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,3-Dichloropropane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Tetrachloroethene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
2-Hexanone	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Dibromochloromethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2-Dibromoethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Chlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Ethylbenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
m,p-Xylene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
o-Xylene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Xylene (Total)	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Styrene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Bromoform	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Isopropylbenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,1,2,2-Tetrachloroethane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Bromobenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2,3-Trichloropropane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
n-Propylbenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
2-Chlorotoluene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,3,5-Trimethylbenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
4-Chlorotoluene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
tert-Butylbenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2,4-Trimethylbenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
sec-Butylbenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
4-Isopropyltoluene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,3-Dichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,4-Dichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
n-Butylbenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2-Dichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2-Dibromo-3-chloropropane	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2,4-Trichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Hexachlorobutadiene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
1,2,3-Trichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Naphthalene	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Diethyl ether	ND		3.3	ug/Kg	1	10/03/2015 3:07	83210
Tetrahydrofuran	ND		6.7	ug/Kg	1	10/03/2015 3:07	83210
Surrogate: Dibromofluoromethane	96.9		76-128	%REC	1	10/03/2015 3:07	83210
Surrogate: 1,2-Dichloroethane-d4	94.3		88-110	%REC	1	10/03/2015 3:07	83210
Surrogate: Toluene-d8	106		85-115	%REC	1	10/03/2015 3:07	83210
Surrogate: Bromofluorobenzene	97.3		85-120	%REC	1	10/03/2015 3:07	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Chloromethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Vinyl chloride	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Bromomethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Chloroethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Trichlorofluoromethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,1-Dichloroethene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Acetone	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Carbon disulfide	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Methylene chloride	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
trans-1,2-Dichloroethene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Methyl tert-butyl ether	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,1-Dichloroethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
2-Butanone	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
cis-1,2-Dichloroethene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
2,2-Dichloropropane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Bromochloromethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Chloroform	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,1,1-Trichloroethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,1-Dichloropropene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Carbon tetrachloride	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2-Dichloroethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Benzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Trichloroethene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2-Dichloropropane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Dibromomethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Bromodichloromethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
cis-1,3-Dichloropropene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
4-Methyl-2-pentanone	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Toluene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
trans-1,3-Dichloropropene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,1,2-Trichloroethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,3-Dichloropropane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Tetrachloroethene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
2-Hexanone	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Dibromochloromethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2-Dibromoethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Chlorobenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Ethylbenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
m,p-Xylene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
o-Xylene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Xylene (Total)	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Styrene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Bromoform	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Isopropylbenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,1,2,2-Tetrachloroethane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Bromobenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2,3-Trichloropropane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
n-Propylbenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
2-Chlorotoluene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,3,5-Trimethylbenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
4-Chlorotoluene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
tert-Butylbenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2,4-Trimethylbenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
sec-Butylbenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
4-Isopropyltoluene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,3-Dichlorobenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,4-Dichlorobenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
n-Butylbenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2-Dichlorobenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2-Dibromo-3-chloropropane	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2,4-Trichlorobenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Hexachlorobutadiene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
1,2,3-Trichlorobenzene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Naphthalene	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Diethyl ether	ND		4.4	ug/Kg	1	10/03/2015 3:32	83210
Tetrahydrofuran	ND		8.9	ug/Kg	1	10/03/2015 3:32	83210
Surrogate: Dibromofluoromethane	99.7		76-128	%REC	1	10/03/2015 3:32	83210
Surrogate: 1,2-Dichloroethane-d4	104		88-110	%REC	1	10/03/2015 3:32	83210
Surrogate: Toluene-d8	105		85-115	%REC	1	10/03/2015 3:32	83210
Surrogate: Bromofluorobenzene	98.2		85-120	%REC	1	10/03/2015 3:32	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Chloromethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Vinyl chloride	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Bromomethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Chloroethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Trichlorofluoromethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,1-Dichloroethene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Acetone	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Carbon disulfide	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Methylene chloride	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Methyl tert-butyl ether	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,1-Dichloroethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
2-Butanone	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
2,2-Dichloropropane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Bromochloromethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Chloroform	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,1,1-Trichloroethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,1-Dichloropropene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Carbon tetrachloride	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2-Dichloroethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Benzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Trichloroethene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2-Dichloropropane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Dibromomethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Bromodichloromethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
4-Methyl-2-pentanone	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Toluene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,1,2-Trichloroethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,3-Dichloropropane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Tetrachloroethene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
2-Hexanone	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Dibromochloromethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2-Dibromoethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Chlorobenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Ethylbenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
m,p-Xylene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
o-Xylene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Xylene (Total)	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Styrene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Bromoform	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Isopropylbenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Bromobenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2,3-Trichloropropane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
n-Propylbenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
2-Chlorotoluene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
4-Chlorotoluene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
tert-Butylbenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
sec-Butylbenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
4-Isopropyltoluene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,3-Dichlorobenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,4-Dichlorobenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
n-Butylbenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2-Dichlorobenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2-Dibromo-3-chloropropane	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Hexachlorobutadiene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Naphthalene	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Diethyl ether	ND		3.9	ug/Kg	1	10/03/2015 3:57	83210
Tetrahydrofuran	ND		7.7	ug/Kg	1	10/03/2015 3:57	83210
Surrogate: Dibromofluoromethane	92.6		76-128	%REC	1	10/03/2015 3:57	83210
Surrogate: 1,2-Dichloroethane-d4	100		88-110	%REC	1	10/03/2015 3:57	83210
Surrogate: Toluene-d8	107		85-115	%REC	1	10/03/2015 3:57	83210
Surrogate: Bromofluorobenzene	99.3		85-120	%REC	1	10/03/2015 3:57	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Chloromethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Vinyl chloride	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Bromomethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Chloroethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Trichlorofluoromethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,1-Dichloroethene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Acetone	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Carbon disulfide	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Methylene chloride	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
trans-1,2-Dichloroethene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Methyl tert-butyl ether	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,1-Dichloroethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
2-Butanone	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
cis-1,2-Dichloroethene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
2,2-Dichloropropane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Bromochloromethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Chloroform	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,1,1-Trichloroethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,1-Dichloropropene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Carbon tetrachloride	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2-Dichloroethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Benzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Trichloroethene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2-Dichloropropane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Dibromomethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Bromodichloromethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
cis-1,3-Dichloropropene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
4-Methyl-2-pentanone	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Toluene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
trans-1,3-Dichloropropene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,1,2-Trichloroethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,3-Dichloropropane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Tetrachloroethene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
2-Hexanone	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Dibromochloromethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2-Dibromoethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Chlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Ethylbenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
m,p-Xylene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
o-Xylene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Xylene (Total)	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Styrene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Bromoform	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Isopropylbenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,1,2,2-Tetrachloroethane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Bromobenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2,3-Trichloropropane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
n-Propylbenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
2-Chlorotoluene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,3,5-Trimethylbenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
4-Chlorotoluene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
tert-Butylbenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2,4-Trimethylbenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
sec-Butylbenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
4-Isopropyltoluene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,3-Dichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,4-Dichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
n-Butylbenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2-Dichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2-Dibromo-3-chloropropane	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2,4-Trichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Hexachlorobutadiene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
1,2,3-Trichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Naphthalene	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Diethyl ether	ND		3.4	ug/Kg	1	10/03/2015 4:22	83210
Tetrahydrofuran	ND		6.9	ug/Kg	1	10/03/2015 4:22	83210
Surrogate: Dibromofluoromethane	99.1		76-128	%REC	1	10/03/2015 4:22	83210
Surrogate: 1,2-Dichloroethane-d4	108		88-110	%REC	1	10/03/2015 4:22	83210
Surrogate: Toluene-d8	104		85-115	%REC	1	10/03/2015 4:22	83210
Surrogate: Bromofluorobenzene	96.0		85-120	%REC	1	10/03/2015 4:22	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Chloromethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Vinyl chloride	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Bromomethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Chloroethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Trichlorofluoromethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,1-Dichloroethene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Acetone	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Carbon disulfide	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Methylene chloride	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
trans-1,2-Dichloroethene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Methyl tert-butyl ether	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,1-Dichloroethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
2-Butanone	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
cis-1,2-Dichloroethene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
2,2-Dichloropropane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Bromochloromethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Chloroform	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,1,1-Trichloroethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,1-Dichloropropene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Carbon tetrachloride	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2-Dichloroethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Benzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Trichloroethene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2-Dichloropropane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Dibromomethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Bromodichloromethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
cis-1,3-Dichloropropene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
4-Methyl-2-pentanone	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Toluene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
trans-1,3-Dichloropropene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,1,2-Trichloroethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,3-Dichloropropane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Tetrachloroethene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
2-Hexanone	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Dibromochloromethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2-Dibromoethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Chlorobenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Ethylbenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
m,p-Xylene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
o-Xylene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Xylene (Total)	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Styrene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Bromoform	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Isopropylbenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,1,2,2-Tetrachloroethane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Bromobenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2,3-Trichloropropane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
n-Propylbenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
2-Chlorotoluene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,3,5-Trimethylbenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
4-Chlorotoluene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
tert-Butylbenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2,4-Trimethylbenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
sec-Butylbenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
4-Isopropyltoluene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,3-Dichlorobenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,4-Dichlorobenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
n-Butylbenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2-Dichlorobenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2-Dibromo-3-chloropropane	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2,4-Trichlorobenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Hexachlorobutadiene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
1,2,3-Trichlorobenzene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Naphthalene	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Diethyl ether	ND		4.6	ug/Kg	1	10/03/2015 4:47	83210
Tetrahydrofuran	ND		9.1	ug/Kg	1	10/03/2015 4:47	83210
Surrogate: Dibromofluoromethane	98.6		76-128	%REC	1	10/03/2015 4:47	83210
Surrogate: 1,2-Dichloroethane-d4	102		88-110	%REC	1	10/03/2015 4:47	83210
Surrogate: Toluene-d8	107		85-115	%REC	1	10/03/2015 4:47	83210
Surrogate: Bromofluorobenzene	96.0		85-120	%REC	1	10/03/2015 4:47	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Chloromethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Vinyl chloride	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Bromomethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Chloroethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Trichlorofluoromethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,1-Dichloroethene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Acetone	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Carbon disulfide	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Methylene chloride	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
trans-1,2-Dichloroethene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Methyl tert-butyl ether	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,1-Dichloroethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
2-Butanone	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
cis-1,2-Dichloroethene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
2,2-Dichloropropane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Bromochloromethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Chloroform	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,1,1-Trichloroethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,1-Dichloropropene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Carbon tetrachloride	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2-Dichloroethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Benzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Trichloroethene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2-Dichloropropane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Dibromomethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Bromodichloromethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
cis-1,3-Dichloropropene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
4-Methyl-2-pentanone	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Toluene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
trans-1,3-Dichloropropene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,1,2-Trichloroethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,3-Dichloropropane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Tetrachloroethene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
2-Hexanone	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Dibromochloromethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2-Dibromoethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Chlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Ethylbenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
m,p-Xylene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
o-Xylene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Xylene (Total)	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Styrene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Bromoform	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Isopropylbenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,1,2,2-Tetrachloroethane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Bromobenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2,3-Trichloropropane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
n-Propylbenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
2-Chlorotoluene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,3,5-Trimethylbenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
4-Chlorotoluene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
tert-Butylbenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2,4-Trimethylbenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
sec-Butylbenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
4-Isopropyltoluene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,3-Dichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,4-Dichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
n-Butylbenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2-Dichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2-Dibromo-3-chloropropane	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2,4-Trichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Hexachlorobutadiene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
1,2,3-Trichlorobenzene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Naphthalene	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Diethyl ether	ND		3.4	ug/Kg	1	10/03/2015 5:12	83210
Tetrahydrofuran	ND		6.8	ug/Kg	1	10/03/2015 5:12	83210
Surrogate: Dibromofluoromethane	99.2		76-128	%REC	1	10/03/2015 5:12	83210
Surrogate: 1,2-Dichloroethane-d4	111	S	88-110	%REC	1	10/03/2015 5:12	83210
Surrogate: Toluene-d8	108		85-115	%REC	1	10/03/2015 5:12	83210
Surrogate: Bromofluorobenzene	98.3		85-120	%REC	1	10/03/2015 5:12	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Chloromethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Vinyl chloride	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Bromomethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Chloroethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Trichlorofluoromethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,1-Dichloroethene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Acetone	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Carbon disulfide	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Methylene chloride	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
trans-1,2-Dichloroethene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Methyl tert-butyl ether	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,1-Dichloroethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
2-Butanone	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
cis-1,2-Dichloroethene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
2,2-Dichloropropane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Bromochloromethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Chloroform	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,1,1-Trichloroethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,1-Dichloropropene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Carbon tetrachloride	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2-Dichloroethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Benzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Trichloroethene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2-Dichloropropane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Dibromomethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Bromodichloromethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
cis-1,3-Dichloropropene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
4-Methyl-2-pentanone	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Toluene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
trans-1,3-Dichloropropene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,1,2-Trichloroethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,3-Dichloropropane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Tetrachloroethene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
2-Hexanone	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Dibromochloromethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2-Dibromoethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Chlorobenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Ethylbenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
m,p-Xylene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
o-Xylene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Xylene (Total)	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Styrene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Bromoform	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Isopropylbenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,1,2,2-Tetrachloroethane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Bromobenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2,3-Trichloropropane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
n-Propylbenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
2-Chlorotoluene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,3,5-Trimethylbenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
4-Chlorotoluene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
tert-Butylbenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2,4-Trimethylbenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
sec-Butylbenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
4-Isopropyltoluene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,3-Dichlorobenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,4-Dichlorobenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
n-Butylbenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2-Dichlorobenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2-Dibromo-3-chloropropane	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2,4-Trichlorobenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Hexachlorobutadiene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
1,2,3-Trichlorobenzene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Naphthalene	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Diethyl ether	ND		3.8	ug/Kg	1	10/03/2015 5:37	83210
Tetrahydrofuran	ND		7.5	ug/Kg	1	10/03/2015 5:37	83210
Surrogate: Dibromofluoromethane	95.0		76-128	%REC	1	10/03/2015 5:37	83210
Surrogate: 1,2-Dichloroethane-d4	99.7		88-110	%REC	1	10/03/2015 5:37	83210
Surrogate: Toluene-d8	105		85-115	%REC	1	10/03/2015 5:37	83210
Surrogate: Bromofluorobenzene	95.1		85-120	%REC	1	10/03/2015 5:37	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Chloromethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Vinyl chloride	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Bromomethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Chloroethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Trichlorofluoromethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,1-Dichloroethene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Acetone	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Carbon disulfide	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Methylene chloride	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Methyl tert-butyl ether	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,1-Dichloroethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
2-Butanone	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
cis-1,2-Dichloroethene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
2,2-Dichloropropane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Bromochloromethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Chloroform	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,1,1-Trichloroethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,1-Dichloropropene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Carbon tetrachloride	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2-Dichloroethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Benzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Trichloroethene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2-Dichloropropane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Dibromomethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Bromodichloromethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
4-Methyl-2-pentanone	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Toluene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,1,2-Trichloroethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,3-Dichloropropane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Tetrachloroethene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
2-Hexanone	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Dibromochloromethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2-Dibromoethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Chlorobenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Ethylbenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
m,p-Xylene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
o-Xylene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Xylene (Total)	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Styrene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Bromoform	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Isopropylbenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Bromobenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2,3-Trichloropropane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
n-Propylbenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
2-Chlorotoluene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,3,5-Trimethylbenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
4-Chlorotoluene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
tert-Butylbenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2,4-Trimethylbenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
sec-Butylbenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
4-Isopropyltoluene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,3-Dichlorobenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,4-Dichlorobenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
n-Butylbenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2-Dichlorobenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2-Dibromo-3-chloropropane	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Hexachlorobutadiene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
1,2,3-Trichlorobenzene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Naphthalene	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Diethyl ether	ND		3.6	ug/Kg	1	10/03/2015 6:02	83210
Tetrahydrofuran	ND		7.3	ug/Kg	1	10/03/2015 6:02	83210
Surrogate: Dibromofluoromethane	99.6		76-128	%REC	1	10/03/2015 6:02	83210
Surrogate: 1,2-Dichloroethane-d4	105		88-110	%REC	1	10/03/2015 6:02	83210
Surrogate: Toluene-d8	107		85-115	%REC	1	10/03/2015 6:02	83210
Surrogate: Bromofluorobenzene	96.0		85-120	%REC	1	10/03/2015 6:02	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Chloromethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Vinyl chloride	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Bromomethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Chloroethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Trichlorofluoromethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,1-Dichloroethene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Acetone	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Carbon disulfide	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Methylene chloride	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
trans-1,2-Dichloroethene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Methyl tert-butyl ether	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,1-Dichloroethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
2-Butanone	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
cis-1,2-Dichloroethene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
2,2-Dichloropropane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Bromochloromethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Chloroform	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,1,1-Trichloroethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,1-Dichloropropene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Carbon tetrachloride	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2-Dichloroethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Benzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Trichloroethene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2-Dichloropropane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Dibromomethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Bromodichloromethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
cis-1,3-Dichloropropene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
4-Methyl-2-pentanone	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Toluene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
trans-1,3-Dichloropropene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,1,2-Trichloroethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,3-Dichloropropane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Tetrachloroethene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
2-Hexanone	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Dibromochloromethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2-Dibromoethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Chlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Ethylbenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
m,p-Xylene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
o-Xylene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Xylene (Total)	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Styrene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Bromoform	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Isopropylbenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,1,2,2-Tetrachloroethane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Bromobenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2,3-Trichloropropane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
n-Propylbenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
2-Chlorotoluene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,3,5-Trimethylbenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
4-Chlorotoluene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
tert-Butylbenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2,4-Trimethylbenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
sec-Butylbenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
4-Isopropyltoluene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,3-Dichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,4-Dichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
n-Butylbenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2-Dichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2-Dibromo-3-chloropropane	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2,4-Trichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Hexachlorobutadiene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
1,2,3-Trichlorobenzene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Naphthalene	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Diethyl ether	ND		3.3	ug/Kg	1	10/03/2015 6:27	83210
Tetrahydrofuran	ND		6.7	ug/Kg	1	10/03/2015 6:27	83210
Surrogate: Dibromofluoromethane	94.9		76-128	%REC	1	10/03/2015 6:27	83210
Surrogate: 1,2-Dichloroethane-d4	95.0		88-110	%REC	1	10/03/2015 6:27	83210
Surrogate: Toluene-d8	104		85-115	%REC	1	10/03/2015 6:27	83210
Surrogate: Bromofluorobenzene	93.1		85-120	%REC	1	10/03/2015 6:27	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Chloromethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Vinyl chloride	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Bromomethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Chloroethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Trichlorofluoromethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,1-Dichloroethene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Acetone	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Carbon disulfide	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Methylene chloride	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Methyl tert-butyl ether	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,1-Dichloroethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
2-Butanone	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
2,2-Dichloropropane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Bromochloromethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Chloroform	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,1,1-Trichloroethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,1-Dichloropropene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Carbon tetrachloride	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2-Dichloroethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Benzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Trichloroethene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2-Dichloropropane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Dibromomethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Bromodichloromethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
4-Methyl-2-pentanone	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Toluene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,1,2-Trichloroethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,3-Dichloropropane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Tetrachloroethene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
2-Hexanone	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Dibromochloromethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2-Dibromoethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Chlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Ethylbenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
m,p-Xylene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
o-Xylene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Xylene (Total)	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Styrene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Bromoform	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Isopropylbenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Bromobenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2,3-Trichloropropane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
n-Propylbenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
2-Chlorotoluene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
4-Chlorotoluene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
tert-Butylbenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
sec-Butylbenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
4-Isopropyltoluene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,3-Dichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,4-Dichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
n-Butylbenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2-Dichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2-Dibromo-3-chloropropane	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Hexachlorobutadiene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Naphthalene	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Diethyl ether	ND		3.7	ug/Kg	1	10/05/2015 10:59	83214
Tetrahydrofuran	ND		7.3	ug/Kg	1	10/05/2015 10:59	83214
Surrogate: Dibromofluoromethane	96.3		76-128	%REC	1	10/05/2015 10:59	83214
Surrogate: 1,2-Dichloroethane-d4	96.2		88-110	%REC	1	10/05/2015 10:59	83214
Surrogate: Toluene-d8	103		85-115	%REC	1	10/05/2015 10:59	83214
Surrogate: Bromofluorobenzene	95.2		85-120	%REC	1	10/05/2015 10:59	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Chloromethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Vinyl chloride	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Bromomethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Chloroethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Trichlorofluoromethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,1-Dichloroethene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Acetone	4.6		3.0	ug/Kg	1	10/05/2015 11:24	83214
Carbon disulfide	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Methylene chloride	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
trans-1,2-Dichloroethene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Methyl tert-butyl ether	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,1-Dichloroethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
2-Butanone	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
cis-1,2-Dichloroethene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
2,2-Dichloropropane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Bromochloromethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Chloroform	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,1,1-Trichloroethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,1-Dichloropropene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Carbon tetrachloride	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2-Dichloroethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Benzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Trichloroethene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2-Dichloropropane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Dibromomethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Bromodichloromethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
cis-1,3-Dichloropropene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
4-Methyl-2-pentanone	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Toluene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
trans-1,3-Dichloropropene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,1,2-Trichloroethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,3-Dichloropropane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Tetrachloroethene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
2-Hexanone	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Dibromochloromethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2-Dibromoethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Chlorobenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Ethylbenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
m,p-Xylene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
o-Xylene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Xylene (Total)	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Styrene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Bromoform	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Isopropylbenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,1,2,2-Tetrachloroethane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Bromobenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2,3-Trichloropropane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
n-Propylbenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
2-Chlorotoluene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,3,5-Trimethylbenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
4-Chlorotoluene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
tert-Butylbenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2,4-Trimethylbenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
sec-Butylbenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
4-Isopropyltoluene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,3-Dichlorobenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,4-Dichlorobenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
n-Butylbenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2-Dichlorobenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2-Dibromo-3-chloropropane	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2,4-Trichlorobenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Hexachlorobutadiene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
1,2,3-Trichlorobenzene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Naphthalene	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Diethyl ether	ND		3.0	ug/Kg	1	10/05/2015 11:24	83214
Tetrahydrofuran	ND		5.9	ug/Kg	1	10/05/2015 11:24	83214
Surrogate: Dibromofluoromethane	95.5		76-128	%REC	1	10/05/2015 11:24	83214
Surrogate: 1,2-Dichloroethane-d4	102		88-110	%REC	1	10/05/2015 11:24	83214
Surrogate: Toluene-d8	105		85-115	%REC	1	10/05/2015 11:24	83214
Surrogate: Bromofluorobenzene	98.1		85-120	%REC	1	10/05/2015 11:24	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK-02 **Project:** Barrington, RI site
Lab ID: P1453-13 **Collection Date:** 09/29/15 17:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Chloromethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Vinyl chloride	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Bromomethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Chloroethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Trichlorofluoromethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,1-Dichloroethene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Acetone	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Carbon disulfide	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Methylene chloride	17		5.0	ug/Kg	1	10/05/2015 10:33	83214
trans-1,2-Dichloroethene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Methyl tert-butyl ether	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,1-Dichloroethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
2-Butanone	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
cis-1,2-Dichloroethene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
2,2-Dichloropropane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Bromochloromethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Chloroform	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,1,1-Trichloroethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,1-Dichloropropene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Carbon tetrachloride	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2-Dichloroethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Benzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Trichloroethene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2-Dichloropropane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Dibromomethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Bromodichloromethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
cis-1,3-Dichloropropene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
4-Methyl-2-pentanone	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Toluene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
trans-1,3-Dichloropropene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,1,2-Trichloroethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,3-Dichloropropane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Tetrachloroethene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
2-Hexanone	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Dibromochloromethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2-Dibromoethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Chlorobenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK-02 **Project:** Barrington, RI site
Lab ID: P1453-13 **Collection Date:** 09/29/15 17:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Ethylbenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
m,p-Xylene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
o-Xylene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Xylene (Total)	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Styrene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Bromoform	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Isopropylbenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Bromobenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2,3-Trichloropropane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
n-Propylbenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
2-Chlorotoluene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
4-Chlorotoluene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
tert-Butylbenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
sec-Butylbenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
4-Isopropyltoluene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,3-Dichlorobenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,4-Dichlorobenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
n-Butylbenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2-Dichlorobenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2-Dibromo-3-chloropropane	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Hexachlorobutadiene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Naphthalene	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Diethyl ether	ND		5.0	ug/Kg	1	10/05/2015 10:33	83214
Tetrahydrofuran	ND		10	ug/Kg	1	10/05/2015 10:33	83214
Surrogate: Dibromofluoromethane	93.1		76-128	%REC	1	10/05/2015 10:33	83214
Surrogate: 1,2-Dichloroethane-d4	89.5		88-110	%REC	1	10/05/2015 10:33	83214
Surrogate: Toluene-d8	109		85-115	%REC	1	10/05/2015 10:33	83214
Surrogate: Bromofluorobenzene	96.1		85-120	%REC	1	10/05/2015 10:33	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83210** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **MB-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date **10/02/15 22:57** SeqNo: **2312425**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.98	5.0									
Chloromethane	ND	0.80	5.0									
Vinyl chloride	ND	0.63	5.0									
Bromomethane	ND	1.1	5.0									
Chloroethane	ND	1.0	5.0									
Trichlorofluoromethane	ND	0.42	5.0									
1,1-Dichloroethene	ND	0.95	5.0									
Acetone	ND	1.6	5.0									
Carbon disulfide	ND	0.30	5.0									
Methylene chloride	ND	1.3	5.0									
trans-1,2-Dichloroethene	ND	0.53	5.0									
Methyl tert-butyl ether	ND	0.61	5.0									
1,1-Dichloroethane	ND	0.67	5.0									
2-Butanone	ND	2.0	5.0									
cis-1,2-Dichloroethene	ND	0.75	5.0									
2,2-Dichloropropane	ND	0.29	5.0									
Bromochloromethane	ND	0.76	5.0									
Chloroform	ND	0.64	5.0									
1,1,1-Trichloroethane	ND	0.53	5.0									
1,1-Dichloropropene	ND	0.81	5.0									
Carbon tetrachloride	ND	0.33	5.0									
1,2-Dichloroethane	ND	0.54	5.0									
Benzene	ND	0.61	5.0									
Trichloroethene	ND	0.62	5.0									
1,2-Dichloropropane	ND	0.69	5.0									
Dibromomethane	ND	0.58	5.0									
Bromodichloromethane	ND	0.97	5.0									
cis-1,3-Dichloropropene	ND	0.67	5.0									
4-Methyl-2-pentanone	ND	0.73	5.0									
Toluene	ND	0.47	5.0									
trans-1,3-Dichloropropene	ND	0.68	5.0									
1,1,2-Trichloroethane	ND	0.48	5.0									
1,3-Dichloropropane	ND	0.87	5.0									
Tetrachloroethene	ND	0.62	5.0									
2-Hexanone	ND	0.83	5.0									
Dibromochloromethane	ND	0.65	5.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83210** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **MB-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date **10/02/15 22:57** SeqNo: **2312425**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.74	5.0									
Chlorobenzene	ND	0.51	5.0									
1,1,1,2-Tetrachloroethane	ND	0.77	5.0									
Ethylbenzene	ND	0.50	5.0									
m,p-Xylene	ND	1.6	5.0									
o-Xylene	ND	0.47	5.0									
Xylene (Total)	ND	0.47	5.0									
Styrene	ND	0.52	5.0									
Bromoform	ND	2.0	5.0									
Isopropylbenzene	ND	0.58	5.0									
1,1,2,2-Tetrachloroethane	ND	0.68	5.0									
Bromobenzene	ND	0.58	5.0									
1,2,3-Trichloropropane	ND	0.87	5.0									
n-Propylbenzene	ND	0.44	5.0									
2-Chlorotoluene	ND	0.74	5.0									
1,3,5-Trimethylbenzene	ND	0.61	5.0									
4-Chlorotoluene	ND	0.84	5.0									
tert-Butylbenzene	ND	0.52	5.0									
1,2,4-Trimethylbenzene	ND	0.57	5.0									
sec-Butylbenzene	ND	0.62	5.0									
4-Isopropyltoluene	ND	0.71	5.0									
1,3-Dichlorobenzene	ND	0.70	5.0									
1,4-Dichlorobenzene	ND	0.80	5.0									
n-Butylbenzene	ND	0.67	5.0									
1,2-Dichlorobenzene	ND	0.62	5.0									
1,2-Dibromo-3-chloropropane	ND	1.3	5.0									
1,2,4-Trichlorobenzene	ND	0.63	5.0									
Hexachlorobutadiene	ND	0.62	5.0									
1,2,3-Trichlorobenzene	ND	0.64	5.0									
Naphthalene	ND	0.78	5.0									
Diethyl ether	ND	1.3	5.0									
Tetrahydrofuran	ND	4.6	10									
Surrogate: Dibromofluoromethane	48.47		5.0	50.00	0	96.9	76	128		0		
Surrogate: 1,2-Dichloroethane-d4	46.15		5.0	50.00	0	92.3	88	110		0		
Surrogate: Toluene-d8	53.29		5.0	50.00	0	107	85	115		0		

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83210** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **MB-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date **10/02/15 22:57** SeqNo: **2312425**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Bromofluorobenzene	47.45		5.0	50.00	0	94.9	85	120	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83214** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **MB-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date **10/05/15 10:08** SeqNo: **2312948**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.98	5.0									
Chloromethane	ND	0.80	5.0									
Vinyl chloride	ND	0.63	5.0									
Bromomethane	ND	1.1	5.0									
Chloroethane	ND	1.0	5.0									
Trichlorofluoromethane	ND	0.42	5.0									
1,1-Dichloroethene	ND	0.95	5.0									
Acetone	ND	1.6	5.0									
Carbon disulfide	ND	0.30	5.0									
Methylene chloride	ND	1.3	5.0									
trans-1,2-Dichloroethene	ND	0.53	5.0									
Methyl tert-butyl ether	ND	0.61	5.0									
1,1-Dichloroethane	ND	0.67	5.0									
2-Butanone	ND	2.0	5.0									
cis-1,2-Dichloroethene	ND	0.75	5.0									
2,2-Dichloropropane	ND	0.29	5.0									
Bromochloromethane	ND	0.76	5.0									
Chloroform	ND	0.64	5.0									
1,1,1-Trichloroethane	ND	0.53	5.0									
1,1-Dichloropropene	ND	0.81	5.0									
Carbon tetrachloride	ND	0.33	5.0									
1,2-Dichloroethane	ND	0.54	5.0									
Benzene	ND	0.61	5.0									
Trichloroethene	ND	0.62	5.0									
1,2-Dichloropropane	ND	0.69	5.0									
Dibromomethane	ND	0.58	5.0									
Bromodichloromethane	ND	0.97	5.0									
cis-1,3-Dichloropropene	ND	0.67	5.0									
4-Methyl-2-pentanone	ND	0.73	5.0									
Toluene	ND	0.47	5.0									
trans-1,3-Dichloropropene	ND	0.68	5.0									
1,1,2-Trichloroethane	ND	0.48	5.0									
1,3-Dichloropropane	ND	0.87	5.0									
Tetrachloroethene	ND	0.62	5.0									
2-Hexanone	ND	0.83	5.0									
Dibromochloromethane	ND	0.65	5.0									
1,2-Dibromoethane	ND	0.74	5.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83214** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **MB-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date **10/05/15 10:08** SeqNo: **2312948**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.51	5.0									
1,1,1,2-Tetrachloroethane	ND	0.77	5.0									
Ethylbenzene	ND	0.50	5.0									
m,p-Xylene	ND	1.6	5.0									
o-Xylene	ND	0.47	5.0									
Xylene (Total)	ND	0.47	5.0									
Styrene	ND	0.52	5.0									
Bromoform	ND	2.0	5.0									
Isopropylbenzene	ND	0.58	5.0									
1,1,2,2-Tetrachloroethane	ND	0.68	5.0									
Bromobenzene	ND	0.58	5.0									
1,2,3-Trichloropropane	ND	0.87	5.0									
n-Propylbenzene	ND	0.44	5.0									
2-Chlorotoluene	ND	0.74	5.0									
1,3,5-Trimethylbenzene	ND	0.61	5.0									
4-Chlorotoluene	ND	0.84	5.0									
tert-Butylbenzene	ND	0.52	5.0									
1,2,4-Trimethylbenzene	ND	0.57	5.0									
sec-Butylbenzene	ND	0.62	5.0									
4-Isopropyltoluene	ND	0.71	5.0									
1,3-Dichlorobenzene	ND	0.70	5.0									
1,4-Dichlorobenzene	ND	0.80	5.0									
n-Butylbenzene	ND	0.67	5.0									
1,2-Dichlorobenzene	ND	0.62	5.0									
1,2-Dibromo-3-chloropropane	ND	1.3	5.0									
1,2,4-Trichlorobenzene	ND	0.63	5.0									
Hexachlorobutadiene	ND	0.62	5.0									
1,2,3-Trichlorobenzene	ND	0.64	5.0									
Naphthalene	ND	0.78	5.0									
Diethyl ether	ND	1.3	5.0									
Tetrahydrofuran	ND	4.6	10									
Surrogate: Dibromofluoromethane	48.01		5.0	50.00	0	96.0	76	128		0		
Surrogate: 1,2-Dichloroethane-d4	44.76		5.0	50.00	0	89.5	88	110		0		
Surrogate: Toluene-d8	53.13		5.0	50.00	0	106	85	115		0		
Surrogate: Bromofluorobenzene	48.14		5.0	50.00	0	96.3	85	120		0		

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83210** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **LCS-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date **10/02/15 21:42** SeqNo: **2312423**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	36.53	0.98	5.0	50.00	0	73.1	35	135	0			
Chloromethane	45.87	0.80	5.0	50.00	0	91.7	50	130	0			
Vinyl chloride	44.11	0.63	5.0	50.00	0	88.2	60	125	0			
Bromomethane	41.94	1.1	5.0	50.00	0	83.9	30	160	0			
Chloroethane	43.11	1.0	5.0	50.00	0	86.2	40	155	0			
Trichlorofluoromethane	44.03	0.42	5.0	50.00	0	88.1	25	185	0			
1,1-Dichloroethene	40.97	0.95	5.0	50.00	0	81.9	65	135	0			
Acetone	41.07	1.6	5.0	50.00	0	82.1	20	160	0			
Carbon disulfide	42.78	0.30	5.0	50.00	0	85.6	45	160	0			
Methylene chloride	48.82	1.3	5.0	50.00	0	97.6	55	140	0			
trans-1,2-Dichloroethene	45.34	0.53	5.0	50.00	0	90.7	65	135	0			
Methyl tert-butyl ether	49.03	0.61	5.0	50.00	0	98.1	75	126	0			
1,1-Dichloroethane	44.59	0.67	5.0	50.00	0	89.2	75	125	0			
2-Butanone	43.11	2.0	5.0	50.00	0	86.2	30	160	0			
cis-1,2-Dichloroethene	47.86	0.75	5.0	50.00	0	95.7	65	125	0			
2,2-Dichloropropane	41.15	0.29	5.0	50.00	0	82.3	65	135	0			
Bromochloromethane	51.08	0.76	5.0	50.00	0	102	70	125	0			
Chloroform	50.48	0.64	5.0	50.00	0	101	70	125	0			
1,1,1-Trichloroethane	43.54	0.53	5.0	50.00	0	87.1	70	135	0			
1,1-Dichloropropene	40.37	0.81	5.0	50.00	0	80.7	70	135	0			
Carbon tetrachloride	41.84	0.33	5.0	50.00	0	83.7	65	135	0			
1,2-Dichloroethane	49.77	0.54	5.0	50.00	0	99.5	70	135	0			
Benzene	46.80	0.61	5.0	50.00	0	93.6	75	125	0			
Trichloroethene	40.82	0.62	5.0	50.00	0	81.6	75	125	0			
1,2-Dichloropropane	49.56	0.69	5.0	50.00	0	99.1	70	120	0			
Dibromomethane	49.37	0.58	5.0	50.00	0	98.7	75	130	0			
Bromodichloromethane	49.36	0.97	5.0	50.00	0	98.7	70	130	0			
cis-1,3-Dichloropropene	48.52	0.67	5.0	50.00	0	97.0	70	125	0			
4-Methyl-2-pentanone	48.79	0.73	5.0	50.00	0	97.6	45	145	0			
Toluene	47.63	0.47	5.0	50.00	0	95.3	70	125	0			
trans-1,3-Dichloropropene	49.32	0.68	5.0	50.00	0	98.6	65	125	0			
1,1,2-Trichloroethane	50.18	0.48	5.0	50.00	0	100	60	125	0			
1,3-Dichloropropane	58.44	0.87	5.0	50.00	0	117	75	125	0			
Tetrachloroethene	57.96	0.62	5.0	50.00	0	116	65	140	0			
2-Hexanone	49.47	0.83	5.0	50.00	0	98.9	45	145	0			
Dibromochloromethane	56.55	0.65	5.0	50.00	0	113	65	130	0			
1,2-Dibromoethane	56.75	0.74	5.0	50.00	0	113	70	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83210** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **LCS-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date **10/02/15 21:42** SeqNo: **2312423**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	55.32	0.51	5.0	50.00	0	111	75	125	0			
1,1,1,2-Tetrachloroethane	55.99	0.77	5.0	50.00	0	112	75	125	0			
Ethylbenzene	53.12	0.50	5.0	50.00	0	106	75	125	0			
m,p-Xylene	104.4	1.6	5.0	100.0	0	104	80	125	0			
o-Xylene	54.95	0.47	5.0	50.00	0	110	75	125	0			
Xylene (Total)	159.4	0.47	5.0	150.0	0	106	83	125	0			
Styrene	56.56	0.52	5.0	50.00	0	113	75	125	0			
Bromoform	54.67	2.0	5.0	50.00	0	109	55	135	0			
Isopropylbenzene	51.28	0.58	5.0	50.00	0	103	75	130	0			
1,1,2,2-Tetrachloroethane	55.68	0.68	5.0	50.00	0	111	55	130	0			
Bromobenzene	57.86	0.58	5.0	50.00	0	116	65	120	0			
1,2,3-Trichloropropane	58.09	0.87	5.0	50.00	0	116	65	130	0			
n-Propylbenzene	51.37	0.44	5.0	50.00	0	103	65	135	0			
2-Chlorotoluene	55.99	0.74	5.0	50.00	0	112	70	130	0			
1,3,5-Trimethylbenzene	54.05	0.61	5.0	50.00	0	108	65	135	0			
4-Chlorotoluene	56.53	0.84	5.0	50.00	0	113	75	125	0			
tert-Butylbenzene	50.78	0.52	5.0	50.00	0	102	65	130	0			
1,2,4-Trimethylbenzene	54.92	0.57	5.0	50.00	0	110	65	135	0			
sec-Butylbenzene	50.46	0.62	5.0	50.00	0	101	65	130	0			
4-Isopropyltoluene	51.74	0.71	5.0	50.00	0	103	75	135	0			
1,3-Dichlorobenzene	54.64	0.70	5.0	50.00	0	109	70	125	0			
1,4-Dichlorobenzene	55.02	0.80	5.0	50.00	0	110	70	125	0			
n-Butylbenzene	48.55	0.67	5.0	50.00	0	97.1	65	140	0			
1,2-Dichlorobenzene	56.34	0.62	5.0	50.00	0	113	75	120	0			
1,2-Dibromo-3-chloropropane	49.48	1.3	5.0	50.00	0	99.0	40	135	0			
1,2,4-Trichlorobenzene	51.58	0.63	5.0	50.00	0	103	65	130	0			
Hexachlorobutadiene	44.01	0.62	5.0	50.00	0	88.0	55	140	0			
1,2,3-Trichlorobenzene	51.59	0.64	5.0	50.00	0	103	60	135	0			
Naphthalene	52.66	0.78	5.0	50.00	0	105	40	125	0			
Diethyl ether	51.75	1.3	5.0	50.00	0	103	70	130	0			
Tetrahydrofuran	98.01	4.6	10	100.0	0	98.0	70	130	0			
Surrogate: Dibromofluoromethane	46.74		5.0	50.00	0	93.5	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	52.60		5.0	50.00	0	105	88	110	0			
Surrogate: Toluene-d8	52.76		5.0	50.00	0	106	85	115	0			
Surrogate: Bromofluorobenzene	48.95		5.0	50.00	0	97.9	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83214** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 8:05** Run ID: **V1_151005A**
Client ID: **LCS-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date **10/05/15 8:52** SeqNo: **2312946**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	44.12	0.98	5.0	50.00	0	88.2	35	135	0			
Chloromethane	45.63	0.80	5.0	50.00	0	91.3	50	130	0			
Vinyl chloride	46.81	0.63	5.0	50.00	0	93.6	60	125	0			
Bromomethane	38.46	1.1	5.0	50.00	0	76.9	30	160	0			
Chloroethane	46.73	1.0	5.0	50.00	0	93.5	40	155	0			
Trichlorofluoromethane	49.78	0.42	5.0	50.00	0	99.6	25	185	0			
1,1-Dichloroethene	49.29	0.95	5.0	50.00	0	98.6	65	135	0			
Acetone	40.51	1.6	5.0	50.00	0	81.0	20	160	0			
Carbon disulfide	48.17	0.30	5.0	50.00	0	96.3	45	160	0			
Methylene chloride	46.69	1.3	5.0	50.00	0	93.4	55	140	0			
trans-1,2-Dichloroethene	49.81	0.53	5.0	50.00	0	99.6	65	135	0			
Methyl tert-butyl ether	44.11	0.61	5.0	50.00	0	88.2	75	126	0			
1,1-Dichloroethane	48.53	0.67	5.0	50.00	0	97.1	75	125	0			
2-Butanone	45.10	2.0	5.0	50.00	0	90.2	30	160	0			
cis-1,2-Dichloroethene	48.90	0.75	5.0	50.00	0	97.8	65	125	0			
2,2-Dichloropropane	46.37	0.29	5.0	50.00	0	92.7	65	135	0			
Bromochloromethane	47.76	0.76	5.0	50.00	0	95.5	70	125	0			
Chloroform	48.07	0.64	5.0	50.00	0	96.1	70	125	0			
1,1,1-Trichloroethane	47.26	0.53	5.0	50.00	0	94.5	70	135	0			
1,1-Dichloropropene	47.80	0.81	5.0	50.00	0	95.6	70	135	0			
Carbon tetrachloride	47.60	0.33	5.0	50.00	0	95.2	65	135	0			
1,2-Dichloroethane	43.94	0.54	5.0	50.00	0	87.9	70	135	0			
Benzene	47.25	0.61	5.0	50.00	0	94.5	75	125	0			
Trichloroethene	45.22	0.62	5.0	50.00	0	90.4	75	125	0			
1,2-Dichloropropane	47.56	0.69	5.0	50.00	0	95.1	70	120	0			
Dibromomethane	42.93	0.58	5.0	50.00	0	85.9	75	130	0			
Bromodichloromethane	45.45	0.97	5.0	50.00	0	90.9	70	130	0			
cis-1,3-Dichloropropene	46.47	0.67	5.0	50.00	0	92.9	70	125	0			
4-Methyl-2-pentanone	42.71	0.73	5.0	50.00	0	85.4	45	145	0			
Toluene	47.34	0.47	5.0	50.00	0	94.7	70	125	0			
trans-1,3-Dichloropropene	45.65	0.68	5.0	50.00	0	91.3	65	125	0			
1,1,2-Trichloroethane	44.85	0.48	5.0	50.00	0	89.7	60	125	0			
1,3-Dichloropropane	51.28	0.87	5.0	50.00	0	103	75	125	0			
Tetrachloroethene	55.99	0.62	5.0	50.00	0	112	65	140	0			
2-Hexanone	48.17	0.83	5.0	50.00	0	96.3	45	145	0			
Dibromochloromethane	52.01	0.65	5.0	50.00	0	104	65	130	0			
1,2-Dibromoethane	50.66	0.74	5.0	50.00	0	101	70	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83214** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 8:05** Run ID: **V1_151005A**

Client ID: **LCS-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date **10/05/15 8:52** SeqNo: **2312946**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	52.47	0.51	5.0	50.00	0	105	75	125	0			
1,1,1,2-Tetrachloroethane	50.81	0.77	5.0	50.00	0	102	75	125	0			
Ethylbenzene	53.84	0.50	5.0	50.00	0	108	75	125	0			
m,p-Xylene	110.4	1.6	5.0	100.0	0	110	80	125	0			
o-Xylene	54.35	0.47	5.0	50.00	0	109	75	125	0			
Xylene (Total)	164.8	0.47	5.0	150.0	0	110	83	125	0			
Styrene	53.50	0.52	5.0	50.00	0	107	75	125	0			
Bromoform	50.39	2.0	5.0	50.00	0	101	55	135	0			
Isopropylbenzene	54.81	0.58	5.0	50.00	0	110	75	130	0			
1,1,2,2-Tetrachloroethane	52.49	0.68	5.0	50.00	0	105	55	130	0			
Bromobenzene	54.04	0.58	5.0	50.00	0	108	65	120	0			
1,2,3-Trichloropropane	51.25	0.87	5.0	50.00	0	102	65	130	0			
n-Propylbenzene	55.02	0.44	5.0	50.00	0	110	65	135	0			
2-Chlorotoluene	55.74	0.74	5.0	50.00	0	111	70	130	0			
1,3,5-Trimethylbenzene	55.45	0.61	5.0	50.00	0	111	65	135	0			
4-Chlorotoluene	55.57	0.84	5.0	50.00	0	111	75	125	0			
tert-Butylbenzene	55.07	0.52	5.0	50.00	0	110	65	130	0			
1,2,4-Trimethylbenzene	55.55	0.57	5.0	50.00	0	111	65	135	0			
sec-Butylbenzene	55.52	0.62	5.0	50.00	0	111	65	130	0			
4-Isopropyltoluene	56.37	0.71	5.0	50.00	0	113	75	135	0			
1,3-Dichlorobenzene	55.41	0.70	5.0	50.00	0	111	70	125	0			
1,4-Dichlorobenzene	54.05	0.80	5.0	50.00	0	108	70	125	0			
n-Butylbenzene	54.52	0.67	5.0	50.00	0	109	65	140	0			
1,2-Dichlorobenzene	53.69	0.62	5.0	50.00	0	107	75	120	0			
1,2-Dibromo-3-chloropropane	50.41	1.3	5.0	50.00	0	101	40	135	0			
1,2,4-Trichlorobenzene	51.20	0.63	5.0	50.00	0	102	65	130	0			
Hexachlorobutadiene	52.59	0.62	5.0	50.00	0	105	55	140	0			
1,2,3-Trichlorobenzene	51.92	0.64	5.0	50.00	0	104	60	135	0			
Naphthalene	48.98	0.78	5.0	50.00	0	98.0	40	125	0			
Diethyl ether	46.54	1.3	5.0	50.00	0	93.1	70	130	0			
Tetrahydrofuran	88.77	4.6	10	100.0	0	88.8	70	130	0			
Surrogate: Dibromofluoromethane	47.15		5.0	50.00	0	94.3	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	48.79		5.0	50.00	0	97.6	88	110	0			
Surrogate: Toluene-d8	53.18		5.0	50.00	0	106	85	115	0			
Surrogate: Bromofluorobenzene	48.35		5.0	50.00	0	96.7	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83210** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **LCSD-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date **10/02/15 22:07** SeqNo: **2312424**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	40.04	0.98	5.0	50.00	0	80.1	35	135	36.53	9.16	40	
Chloromethane	45.48	0.80	5.0	50.00	0	91.0	50	130	45.87	0.846	40	
Vinyl chloride	45.02	0.63	5.0	50.00	0	90.0	60	125	44.11	2.04	40	
Bromomethane	42.85	1.1	5.0	50.00	0	85.7	30	160	41.94	2.14	40	
Chloroethane	42.35	1.0	5.0	50.00	0	84.7	40	155	43.11	1.79	40	
Trichlorofluoromethane	43.79	0.42	5.0	50.00	0	87.6	25	185	44.03	0.549	40	
1,1-Dichloroethene	42.68	0.95	5.0	50.00	0	85.4	65	135	40.97	4.08	40	
Acetone	40.49	1.6	5.0	50.00	0	81.0	20	160	41.07	1.43	40	
Carbon disulfide	43.53	0.30	5.0	50.00	0	87.1	45	160	42.78	1.73	40	
Methylene chloride	48.77	1.3	5.0	50.00	0	97.5	55	140	48.82	0.104	40	
trans-1,2-Dichloroethene	47.51	0.53	5.0	50.00	0	95.0	65	135	45.34	4.66	40	
Methyl tert-butyl ether	47.85	0.61	5.0	50.00	0	95.7	75	126	49.03	2.43	40	
1,1-Dichloroethane	49.17	0.67	5.0	50.00	0	98.3	75	125	44.59	9.77	40	
2-Butanone	40.61	2.0	5.0	50.00	0	81.2	30	160	43.11	5.98	40	
cis-1,2-Dichloroethene	48.05	0.75	5.0	50.00	0	96.1	65	125	47.86	0.377	40	
2,2-Dichloropropane	44.17	0.29	5.0	50.00	0	88.3	65	135	41.15	7.08	40	
Bromochloromethane	51.80	0.76	5.0	50.00	0	104	70	125	51.08	1.4	40	
Chloroform	51.03	0.64	5.0	50.00	0	102	70	125	50.48	1.07	40	
1,1,1-Trichloroethane	45.42	0.53	5.0	50.00	0	90.8	70	135	43.54	4.22	40	
1,1-Dichloropropene	41.81	0.81	5.0	50.00	0	83.6	70	135	40.37	3.49	40	
Carbon tetrachloride	43.87	0.33	5.0	50.00	0	87.7	65	135	41.84	4.74	40	
1,2-Dichloroethane	50.71	0.54	5.0	50.00	0	101	70	135	49.77	1.88	40	
Benzene	48.14	0.61	5.0	50.00	0	96.3	75	125	46.80	2.83	40	
Trichloroethene	39.58	0.62	5.0	50.00	0	79.2	75	125	40.82	3.1	40	
1,2-Dichloropropane	44.44	0.69	5.0	50.00	0	88.9	70	120	49.56	10.9	40	
Dibromomethane	48.70	0.58	5.0	50.00	0	97.4	75	130	49.37	1.38	40	
Bromodichloromethane	49.91	0.97	5.0	50.00	0	99.8	70	130	49.36	1.1	40	
cis-1,3-Dichloropropene	47.88	0.67	5.0	50.00	0	95.8	70	125	48.52	1.33	40	
4-Methyl-2-pentanone	45.12	0.73	5.0	50.00	0	90.2	45	145	48.79	7.8	40	
Toluene	47.50	0.47	5.0	50.00	0	95.0	70	125	47.63	0.276	40	
trans-1,3-Dichloropropene	47.85	0.68	5.0	50.00	0	95.7	65	125	49.32	3.03	40	
1,1,2-Trichloroethane	50.05	0.48	5.0	50.00	0	100	60	125	50.18	0.257	40	
1,3-Dichloropropane	56.27	0.87	5.0	50.00	0	113	75	125	58.44	3.77	40	
Tetrachloroethene	62.75	0.62	5.0	50.00	0	125	65	140	57.96	7.93	40	
2-Hexanone	46.45	0.83	5.0	50.00	0	92.9	45	145	49.47	6.29	40	
Dibromochloromethane	56.37	0.65	5.0	50.00	0	113	65	130	56.55	0.324	40	
1,2-Dibromoethane	55.45	0.74	5.0	50.00	0	111	70	125	56.75	2.31	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83210** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**

Client ID: **LCSD-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date **10/02/15 22:07** SeqNo: **2312424**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	55.47	0.51	5.0	50.00	0	111	75	125	55.32	0.278	40	
1,1,1,2-Tetrachloroethane	56.15	0.77	5.0	50.00	0	112	75	125	55.99	0.281	40	
Ethylbenzene	54.35	0.50	5.0	50.00	0	109	75	125	53.12	2.3	40	
m,p-Xylene	106.8	1.6	5.0	100.0	0	107	80	125	104.4	2.21	40	
o-Xylene	56.42	0.47	5.0	50.00	0	113	75	125	54.95	2.65	40	
Xylene (Total)	163.2	0.47	5.0	150.0	0	109	83	125	159.4	2.36	40	
Styrene	55.55	0.52	5.0	50.00	0	111	75	125	56.56	1.81	40	
Bromoform	55.16	2.0	5.0	50.00	0	110	55	135	54.67	0.889	40	
Isopropylbenzene	52.91	0.58	5.0	50.00	0	106	75	130	51.28	3.14	40	
1,1,2,2-Tetrachloroethane	56.06	0.68	5.0	50.00	0	112	55	130	55.68	0.683	40	
Bromobenzene	56.95	0.58	5.0	50.00	0	114	65	120	57.86	1.59	40	
1,2,3-Trichloropropane	53.86	0.87	5.0	50.00	0	108	65	130	58.09	7.57	40	
n-Propylbenzene	53.29	0.44	5.0	50.00	0	107	65	135	51.37	3.67	40	
2-Chlorotoluene	57.23	0.74	5.0	50.00	0	114	70	130	55.99	2.19	40	
1,3,5-Trimethylbenzene	55.57	0.61	5.0	50.00	0	111	65	135	54.05	2.76	40	
4-Chlorotoluene	57.70	0.84	5.0	50.00	0	115	75	125	56.53	2.05	40	
tert-Butylbenzene	51.77	0.52	5.0	50.00	0	104	65	130	50.78	1.93	40	
1,2,4-Trimethylbenzene	56.05	0.57	5.0	50.00	0	112	65	135	54.92	2.03	40	
sec-Butylbenzene	51.49	0.62	5.0	50.00	0	103	65	130	50.46	2.04	40	
4-Isopropyltoluene	53.38	0.71	5.0	50.00	0	107	75	135	51.74	3.11	40	
1,3-Dichlorobenzene	55.26	0.70	5.0	50.00	0	111	70	125	54.64	1.14	40	
1,4-Dichlorobenzene	57.64	0.80	5.0	50.00	0	115	70	125	55.02	4.66	40	
n-Butylbenzene	51.03	0.67	5.0	50.00	0	102	65	140	48.55	4.98	40	
1,2-Dichlorobenzene	58.48	0.62	5.0	50.00	0	117	75	120	56.34	3.72	40	
1,2-Dibromo-3-chloropropane	52.80	1.3	5.0	50.00	0	106	40	135	49.48	6.48	40	
1,2,4-Trichlorobenzene	52.70	0.63	5.0	50.00	0	105	65	130	51.58	2.15	40	
Hexachlorobutadiene	47.67	0.62	5.0	50.00	0	95.3	55	140	44.01	7.98	40	
1,2,3-Trichlorobenzene	52.10	0.64	5.0	50.00	0	104	60	135	51.59	0.986	40	
Naphthalene	53.43	0.78	5.0	50.00	0	107	40	125	52.66	1.45	40	
Diethyl ether	50.34	1.3	5.0	50.00	0	101	70	130	51.75	2.76	40	
Tetrahydrofuran	88.99	4.6	10	100.0	0	89.0	70	130	98.01	9.64	40	
Surrogate: Dibromofluoromethane	47.53		5.0	50.00	0	95.1	76	128	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	47.05		5.0	50.00	0	94.1	88	110	0	0	40	
Surrogate: Toluene-d8	53.31		5.0	50.00	0	107	85	115	0	0	40	
Surrogate: Bromofluorobenzene	49.51		5.0	50.00	0	99.0	85	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83214** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **LCSD-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date **10/05/15 9:18** SeqNo: **2312947**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	42.07	0.98	5.0	50.00	0	84.1	35	135	44.12	4.76	40	
Chloromethane	38.71	0.80	5.0	50.00	0	77.4	50	130	45.63	16.4	40	
Vinyl chloride	45.42	0.63	5.0	50.00	0	90.8	60	125	46.81	3.02	40	
Bromomethane	41.59	1.1	5.0	50.00	0	83.2	30	160	38.46	7.81	40	
Chloroethane	43.65	1.0	5.0	50.00	0	87.3	40	155	46.73	6.81	40	
Trichlorofluoromethane	45.74	0.42	5.0	50.00	0	91.5	25	185	49.78	8.45	40	
1,1-Dichloroethene	44.43	0.95	5.0	50.00	0	88.9	65	135	49.29	10.4	40	
Acetone	35.99	1.6	5.0	50.00	0	72.0	20	160	40.51	11.8	40	
Carbon disulfide	43.24	0.30	5.0	50.00	0	86.5	45	160	48.17	10.8	40	
Methylene chloride	43.96	1.3	5.0	50.00	0	87.9	55	140	46.69	6.03	40	
trans-1,2-Dichloroethene	42.34	0.53	5.0	50.00	0	84.7	65	135	49.81	16.2	40	
Methyl tert-butyl ether	40.25	0.61	5.0	50.00	0	80.5	75	126	44.11	9.16	40	
1,1-Dichloroethane	43.96	0.67	5.0	50.00	0	87.9	75	125	48.53	9.9	40	
2-Butanone	40.19	2.0	5.0	50.00	0	80.4	30	160	45.10	11.5	40	
cis-1,2-Dichloroethene	43.97	0.75	5.0	50.00	0	87.9	65	125	48.90	10.6	40	
2,2-Dichloropropane	43.15	0.29	5.0	50.00	0	86.3	65	135	46.37	7.19	40	
Bromochloromethane	44.77	0.76	5.0	50.00	0	89.5	70	125	47.76	6.47	40	
Chloroform	44.75	0.64	5.0	50.00	0	89.5	70	125	48.07	7.15	40	
1,1,1-Trichloroethane	42.99	0.53	5.0	50.00	0	86.0	70	135	47.26	9.47	40	
1,1-Dichloropropene	42.20	0.81	5.0	50.00	0	84.4	70	135	47.80	12.4	40	
Carbon tetrachloride	44.42	0.33	5.0	50.00	0	88.8	65	135	47.60	6.91	40	
1,2-Dichloroethane	41.45	0.54	5.0	50.00	0	82.9	70	135	43.94	5.83	40	
Benzene	43.73	0.61	5.0	50.00	0	87.5	75	125	47.25	7.74	40	
Trichloroethene	40.75	0.62	5.0	50.00	0	81.5	75	125	45.22	10.4	40	
1,2-Dichloropropane	43.54	0.69	5.0	50.00	0	87.1	70	120	47.56	8.82	40	
Dibromomethane	41.26	0.58	5.0	50.00	0	82.5	75	130	42.93	3.96	40	
Bromodichloromethane	43.19	0.97	5.0	50.00	0	86.4	70	130	45.45	5.1	40	
cis-1,3-Dichloropropene	43.01	0.67	5.0	50.00	0	86.0	70	125	46.47	7.74	40	
4-Methyl-2-pentanone	39.57	0.73	5.0	50.00	0	79.1	45	145	42.71	7.63	40	
Toluene	44.12	0.47	5.0	50.00	0	88.2	70	125	47.34	7.04	40	
trans-1,3-Dichloropropene	42.24	0.68	5.0	50.00	0	84.5	65	125	45.65	7.75	40	
1,1,2-Trichloroethane	40.25	0.48	5.0	50.00	0	80.5	60	125	44.85	10.8	40	
1,3-Dichloropropane	49.52	0.87	5.0	50.00	0	99.0	75	125	51.28	3.48	40	
Tetrachloroethene	53.06	0.62	5.0	50.00	0	106	65	140	55.99	5.36	40	
2-Hexanone	44.38	0.83	5.0	50.00	0	88.8	45	145	48.17	8.18	40	
Dibromochloromethane	51.03	0.65	5.0	50.00	0	102	65	130	52.01	1.9	40	
1,2-Dibromoethane	48.62	0.74	5.0	50.00	0	97.2	70	125	50.66	4.11	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83214** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**

Client ID: **LCSD-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date **10/05/15 9:18** SeqNo: **2312947**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	50.67	0.51	5.0	50.00	0	101	75	125	52.47	3.49	40	
1,1,1,2-Tetrachloroethane	50.97	0.77	5.0	50.00	0	102	75	125	50.81	0.30	40	
Ethylbenzene	50.19	0.50	5.0	50.00	0	100	75	125	53.84	7.03	40	
m,p-Xylene	102.3	1.6	5.0	100.0	0	102	80	125	110.4	7.61	40	
o-Xylene	50.79	0.47	5.0	50.00	0	102	75	125	54.35	6.78	40	
Xylene (Total)	153.1	0.47	5.0	150.0	0	102	83	125	164.8	7.33	40	
Styrene	49.02	0.52	5.0	50.00	0	98.0	75	125	53.50	8.73	40	
Bromoform	48.49	2.0	5.0	50.00	0	97.0	55	135	50.39	3.84	40	
Isopropylbenzene	49.96	0.58	5.0	50.00	0	99.9	75	130	54.81	9.24	40	
1,1,2,2-Tetrachloroethane	48.36	0.68	5.0	50.00	0	96.7	55	130	52.49	8.19	40	
Bromobenzene	53.09	0.58	5.0	50.00	0	106	65	120	54.04	1.79	40	
1,2,3-Trichloropropane	49.70	0.87	5.0	50.00	0	99.4	65	130	51.25	3.08	40	
n-Propylbenzene	52.50	0.44	5.0	50.00	0	105	65	135	55.02	4.69	40	
2-Chlorotoluene	52.88	0.74	5.0	50.00	0	106	70	130	55.74	5.26	40	
1,3,5-Trimethylbenzene	51.54	0.61	5.0	50.00	0	103	65	135	55.45	7.32	40	
4-Chlorotoluene	53.91	0.84	5.0	50.00	0	108	75	125	55.57	3.03	40	
tert-Butylbenzene	51.70	0.52	5.0	50.00	0	103	65	130	55.07	6.32	40	
1,2,4-Trimethylbenzene	52.52	0.57	5.0	50.00	0	105	65	135	55.55	5.6	40	
sec-Butylbenzene	51.41	0.62	5.0	50.00	0	103	65	130	55.52	7.68	40	
4-Isopropyltoluene	51.93	0.71	5.0	50.00	0	104	75	135	56.37	8.19	40	
1,3-Dichlorobenzene	52.79	0.70	5.0	50.00	0	106	70	125	55.41	4.85	40	
1,4-Dichlorobenzene	52.73	0.80	5.0	50.00	0	105	70	125	54.05	2.46	40	
n-Butylbenzene	51.20	0.67	5.0	50.00	0	102	65	140	54.52	6.29	40	
1,2-Dichlorobenzene	51.37	0.62	5.0	50.00	0	103	75	120	53.69	4.41	40	
1,2-Dibromo-3-chloropropane	48.89	1.3	5.0	50.00	0	97.8	40	135	50.41	3.07	40	
1,2,4-Trichlorobenzene	49.50	0.63	5.0	50.00	0	99.0	65	130	51.20	3.39	40	
Hexachlorobutadiene	49.23	0.62	5.0	50.00	0	98.5	55	140	52.59	6.59	40	
1,2,3-Trichlorobenzene	49.23	0.64	5.0	50.00	0	98.5	60	135	51.92	5.31	40	
Naphthalene	47.60	0.78	5.0	50.00	0	95.2	40	125	48.98	2.85	40	
Diethyl ether	45.16	1.3	5.0	50.00	0	90.3	70	130	46.54	3.02	40	
Tetrahydrofuran	81.40	4.6	10	100.0	0	81.4	70	130	88.77	8.67	40	
Surrogate: Dibromofluoromethane	46.26		5.0	50.00	0	92.5	76	128	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	44.42		5.0	50.00	0	88.8	88	110	0	0	40	
Surrogate: Toluene-d8	54.44		5.0	50.00	0	109	85	115	0	0	40	
Surrogate: Bromofluorobenzene	49.66		5.0	50.00	0	99.3	85	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2800	ug/Kg	1	10/06/2015 12:02	83232
Surrogate: Bromofluorobenzene	103		79-118	%REC	1	10/06/2015 12:02	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2400	ug/Kg	1	10/06/2015 12:24	83232
Surrogate: Bromofluorobenzene	102		79-118	%REC	1	10/06/2015 12:24	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		1800	ug/Kg	1	10/06/2015 12:46	83232
Surrogate: Bromofluorobenzene	101		79-118	%REC	1	10/06/2015 12:46	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2100	ug/Kg	1	10/06/2015 13:08	83232
Surrogate: Bromofluorobenzene	93.8		79-118	%REC	1	10/06/2015 13:08	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2000	ug/Kg	1	10/06/2015 13:38	83232
Surrogate: Bromofluorobenzene	89.5		79-118	%REC	1	10/06/2015 13:38	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2200	ug/Kg	1	10/06/2015 14:00	83232
Surrogate: Bromofluorobenzene	99.5		79-118	%REC	1	10/06/2015 14:00	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2100	ug/Kg	1	10/06/2015 14:29	83232
Surrogate: Bromofluorobenzene	96.6		79-118	%REC	1	10/06/2015 14:29	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2500	ug/Kg	1	10/06/2015 14:54	83232
Surrogate: Bromofluorobenzene	95.1		79-118	%REC	1	10/06/2015 14:54	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2900	ug/Kg	1	10/06/2015 15:15	83232
Surrogate: Bromofluorobenzene	93.2		79-118	%REC	1	10/06/2015 15:15	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2400	ug/Kg	1	10/06/2015 15:37	83232
Surrogate: Bromofluorobenzene	89.2		79-118	%REC	1	10/06/2015 15:37	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2000	ug/Kg	1	10/06/2015 15:59	83232
Surrogate: Bromofluorobenzene	84.9		79-118	%REC	1	10/06/2015 15:59	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2700	ug/Kg	1	10/07/2015 9:45	83236
Surrogate: Bromofluorobenzene	93.8		79-118	%REC	1	10/07/2015 9:45	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

GRO_S

SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID

Sample ID: **MB-83232** SampType: **MBLK** TestCode: **GRO_S** Prep Date: **10/06/15 8:28** Run ID: **V4_151006A**
Client ID: **MB-83232** Batch ID: **83232** Units: **ug/Kg** Analysis Date **10/06/15 11:40** SeqNo: **2314029**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	450	2500									
Surrogate: Bromofluorobenzene	21.19		250	20.00	0	106	79	118	0			

Sample ID: **MB-83236** SampType: **MBLK** TestCode: **GRO_S** Prep Date: **10/07/15 7:28** Run ID: **V4_151007A**
Client ID: **MB-83236** Batch ID: **83236** Units: **ug/Kg** Analysis Date **10/07/15 9:24** SeqNo: **2314049**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	450	2500									
Surrogate: Bromofluorobenzene	18.21		250	20.00	0	91.1	79	118	0			

Sample ID: **LCS-83232** SampType: **LCS** TestCode: **GRO_S** Prep Date: **10/06/15 8:28** Run ID: **V4_151006A**
Client ID: **LCS-83232** Batch ID: **83232** Units: **ug/Kg** Analysis Date **10/06/15 11:12** SeqNo: **2314027**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	23990	450	2500	25000	0	96.0	80	120	0			
Surrogate: Bromofluorobenzene	19.90		250	20.00	0	99.5	79	118	0			

Sample ID: **LCS-83236** SampType: **LCS** TestCode: **GRO_S** Prep Date: **10/07/15 7:28** Run ID: **V4_151007A**
Client ID: **LCS-83236** Batch ID: **83236** Units: **ug/Kg** Analysis Date **10/07/15 9:03** SeqNo: **2314054**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	21420	450	2500	25000	0	85.7	80	120	0			
Surrogate: Bromofluorobenzene	18.95		250	20.00	0	94.8	79	118	0			

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Bis(2-chloroethyl)ether	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2-Chlorophenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
1,3-Dichlorobenzene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
1,4-Dichlorobenzene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
1,2-Dichlorobenzene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2-Methylphenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
4-Methylphenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
N-Nitroso-di-n-propylamine	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Hexachloroethane	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Nitrobenzene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Isophorone	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2-Nitrophenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2,4-Dimethylphenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2,4-Dichlorophenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
1,2,4-Trichlorobenzene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Naphthalene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
4-Chloroaniline	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Bis(2-chloroethoxy)methane	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Hexachlorobutadiene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
4-Chloro-3-methylphenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2-Methylnaphthalene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Hexachlorocyclopentadiene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2,4,6-Trichlorophenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2,4,5-Trichlorophenol	ND		730	ug/Kg	1	10/05/2015 17:33	83199
2-Chloronaphthalene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2-Nitroaniline	ND		730	ug/Kg	1	10/05/2015 17:33	83199
Dimethylphthalate	170	J	360	ug/Kg	1	10/05/2015 17:33	83199
Acenaphthylene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2,6-Dinitrotoluene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
3-Nitroaniline	ND		730	ug/Kg	1	10/05/2015 17:33	83199
Acenaphthene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2,4-Dinitrophenol	ND		730	ug/Kg	1	10/05/2015 17:33	83199
4-Nitrophenol	ND		730	ug/Kg	1	10/05/2015 17:33	83199
Dibenzofuran	ND		360	ug/Kg	1	10/05/2015 17:33	83199
2,4-Dinitrotoluene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Diethylphthalate	ND		360	ug/Kg	1	10/05/2015 17:33	83199
4-Chlorophenyl-phenylether	ND		360	ug/Kg	1	10/05/2015 17:33	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
4-Nitroaniline	ND		730	ug/Kg	1	10/05/2015 17:33	83199
4,6-Dinitro-2-methylphenol	ND		730	ug/Kg	1	10/05/2015 17:33	83199
N-Nitrosodiphenylamine	ND		360	ug/Kg	1	10/05/2015 17:33	83199
4-Bromophenyl-phenylether	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Hexachlorobenzene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Pentachlorophenol	ND		730	ug/Kg	1	10/05/2015 17:33	83199
Phenanthrene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Anthracene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Carbazole	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Di-n-butylphthalate	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Fluoranthene	120	J	360	ug/Kg	1	10/05/2015 17:33	83199
Pyrene	120	J	360	ug/Kg	1	10/05/2015 17:33	83199
Butylbenzylphthalate	ND		360	ug/Kg	1	10/05/2015 17:33	83199
3,3´-Dichlorobenzidine	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Benzo(a)anthracene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Chrysene	86	J	360	ug/Kg	1	10/05/2015 17:33	83199
Bis(2-ethylhexyl)phthalate	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Di-n-octylphthalate	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Benzo(b)fluoranthene	92	J	360	ug/Kg	1	10/05/2015 17:33	83199
Benzo(k)fluoranthene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Benzo(a)pyrene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Indeno(1,2,3-cd)pyrene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Dibenzo(a,h)anthracene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Benzo(g,h,i)perylene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
1,1´-Biphenyl	ND		360	ug/Kg	1	10/05/2015 17:33	83199
3-Methylphenol + 4-Methylphenol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Acetophenone	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Aniline	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Azobenzene	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Benzidine	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Benzoic acid	150	J	730	ug/Kg	1	10/05/2015 17:33	83199
Benzyl alcohol	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Bis(2-chloroisopropyl)ether	ND		360	ug/Kg	1	10/05/2015 17:33	83199
N-Nitrosodimethylamine	ND		360	ug/Kg	1	10/05/2015 17:33	83199
Surrogate: Nitrobenzene-d5	55.2		35-100	%REC	1	10/05/2015 17:33	83199
Surrogate: 2-Fluorobiphenyl	53.4		45-105	%REC	1	10/05/2015 17:33	83199
Surrogate: Terphenyl-d14	62.4		30-125	%REC	1	10/05/2015 17:33	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	58.6		40-100	%REC	1	10/05/2015 17:33	83199
Surrogate: 2-Fluorophenol	58.6		35-105	%REC	1	10/05/2015 17:33	83199
Surrogate: 2,4,6-Tribromophenol	43.7		35-125	%REC	1	10/05/2015 17:33	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2-Chlorophenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Hexachloroethane	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Nitrobenzene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Isophorone	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2-Nitrophenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Naphthalene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
4-Chloroaniline	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Hexachlorobutadiene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2-Methylnaphthalene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2,4,5-Trichlorophenol	ND		750	ug/Kg	1	10/05/2015 18:00	83199
2-Chloronaphthalene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 18:00	83199
Dimethylphthalate	130	J	370	ug/Kg	1	10/05/2015 18:00	83199
Acenaphthylene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
3-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 18:00	83199
Acenaphthene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2,4-Dinitrophenol	ND		750	ug/Kg	1	10/05/2015 18:00	83199
4-Nitrophenol	ND		750	ug/Kg	1	10/05/2015 18:00	83199
Dibenzofuran	ND		370	ug/Kg	1	10/05/2015 18:00	83199
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Diethylphthalate	ND		370	ug/Kg	1	10/05/2015 18:00	83199
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 18:00	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
4-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 18:00	83199
4,6-Dinitro-2-methylphenol	ND		750	ug/Kg	1	10/05/2015 18:00	83199
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/05/2015 18:00	83199
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Hexachlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Pentachlorophenol	ND		750	ug/Kg	1	10/05/2015 18:00	83199
Phenanthrene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Anthracene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Carbazole	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Di-n-butylphthalate	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Fluoranthene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Pyrene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Butylbenzylphthalate	ND		370	ug/Kg	1	10/05/2015 18:00	83199
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Benzo(a)anthracene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Chrysene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Di-n-octylphthalate	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Benzo(a)pyrene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
1,1´-Biphenyl	ND		370	ug/Kg	1	10/05/2015 18:00	83199
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Acetophenone	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Aniline	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Azobenzene	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Benzidine	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Benzoic acid	ND		750	ug/Kg	1	10/05/2015 18:00	83199
Benzyl alcohol	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/05/2015 18:00	83199
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/05/2015 18:00	83199
Surrogate: Nitrobenzene-d5	61.3		35-100	%REC	1	10/05/2015 18:00	83199
Surrogate: 2-Fluorobiphenyl	65.0		45-105	%REC	1	10/05/2015 18:00	83199
Surrogate: Terphenyl-d14	72.2		30-125	%REC	1	10/05/2015 18:00	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	65.9		40-100	%REC	1	10/05/2015 18:00	83199
Surrogate: 2-Fluorophenol	63.9		35-105	%REC	1	10/05/2015 18:00	83199
Surrogate: 2,4,6-Tribromophenol	53.4		35-125	%REC	1	10/05/2015 18:00	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2-Chlorophenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Hexachloroethane	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Nitrobenzene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Isophorone	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2-Nitrophenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Naphthalene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
4-Chloroaniline	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Hexachlorobutadiene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2-Methylnaphthalene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2,4,5-Trichlorophenol	ND		750	ug/Kg	1	10/05/2015 18:26	83199
2-Chloronaphthalene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 18:26	83199
Dimethylphthalate	120	J	370	ug/Kg	1	10/05/2015 18:26	83199
Acenaphthylene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
3-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 18:26	83199
Acenaphthene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2,4-Dinitrophenol	ND		750	ug/Kg	1	10/05/2015 18:26	83199
4-Nitrophenol	ND		750	ug/Kg	1	10/05/2015 18:26	83199
Dibenzofuran	ND		370	ug/Kg	1	10/05/2015 18:26	83199
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Diethylphthalate	ND		370	ug/Kg	1	10/05/2015 18:26	83199
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 18:26	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
4-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 18:26	83199
4,6-Dinitro-2-methylphenol	ND		750	ug/Kg	1	10/05/2015 18:26	83199
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/05/2015 18:26	83199
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Hexachlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Pentachlorophenol	ND		750	ug/Kg	1	10/05/2015 18:26	83199
Phenanthrene	160	J	370	ug/Kg	1	10/05/2015 18:26	83199
Anthracene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Carbazole	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Di-n-butylphthalate	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Fluoranthene	160	J	370	ug/Kg	1	10/05/2015 18:26	83199
Pyrene	190	J	370	ug/Kg	1	10/05/2015 18:26	83199
Butylbenzylphthalate	ND		370	ug/Kg	1	10/05/2015 18:26	83199
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Benzo(a)anthracene	75	J	370	ug/Kg	1	10/05/2015 18:26	83199
Chrysene	110	J	370	ug/Kg	1	10/05/2015 18:26	83199
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Di-n-octylphthalate	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Benzo(b)fluoranthene	94	J	370	ug/Kg	1	10/05/2015 18:26	83199
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Benzo(a)pyrene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
1,1´-Biphenyl	ND		370	ug/Kg	1	10/05/2015 18:26	83199
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Acetophenone	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Aniline	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Azobenzene	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Benzidine	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Benzoic acid	ND		750	ug/Kg	1	10/05/2015 18:26	83199
Benzyl alcohol	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/05/2015 18:26	83199
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/05/2015 18:26	83199
Surrogate: Nitrobenzene-d5	69.6		35-100	%REC	1	10/05/2015 18:26	83199
Surrogate: 2-Fluorobiphenyl	71.5		45-105	%REC	1	10/05/2015 18:26	83199
Surrogate: Terphenyl-d14	89.4		30-125	%REC	1	10/05/2015 18:26	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	71.3		40-100	%REC	1	10/05/2015 18:26	83199
Surrogate: 2-Fluorophenol	72.3		35-105	%REC	1	10/05/2015 18:26	83199
Surrogate: 2,4,6-Tribromophenol	56.6		35-125	%REC	1	10/05/2015 18:26	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2-Chlorophenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Hexachloroethane	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Nitrobenzene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Isophorone	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2-Nitrophenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Naphthalene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
4-Chloroaniline	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Hexachlorobutadiene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2-Methylnaphthalene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2,4,5-Trichlorophenol	ND		760	ug/Kg	1	10/05/2015 18:52	83199
2-Chloronaphthalene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2-Nitroaniline	ND		760	ug/Kg	1	10/05/2015 18:52	83199
Dimethylphthalate	190	J	370	ug/Kg	1	10/05/2015 18:52	83199
Acenaphthylene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
3-Nitroaniline	ND		760	ug/Kg	1	10/05/2015 18:52	83199
Acenaphthene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2,4-Dinitrophenol	ND		760	ug/Kg	1	10/05/2015 18:52	83199
4-Nitrophenol	ND		760	ug/Kg	1	10/05/2015 18:52	83199
Dibenzofuran	ND		370	ug/Kg	1	10/05/2015 18:52	83199
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Diethylphthalate	ND		370	ug/Kg	1	10/05/2015 18:52	83199
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 18:52	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
4-Nitroaniline	ND		760	ug/Kg	1	10/05/2015 18:52	83199
4,6-Dinitro-2-methylphenol	ND		760	ug/Kg	1	10/05/2015 18:52	83199
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/05/2015 18:52	83199
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Hexachlorobenzene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Pentachlorophenol	ND		760	ug/Kg	1	10/05/2015 18:52	83199
Phenanthrene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Anthracene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Carbazole	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Di-n-butylphthalate	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Fluoranthene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Pyrene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Butylbenzylphthalate	ND		370	ug/Kg	1	10/05/2015 18:52	83199
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Benzo(a)anthracene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Chrysene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Di-n-octylphthalate	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Benzo(a)pyrene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
1,1´-Biphenyl	ND		370	ug/Kg	1	10/05/2015 18:52	83199
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Acetophenone	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Aniline	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Azobenzene	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Benzidine	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Benzoic acid	ND		760	ug/Kg	1	10/05/2015 18:52	83199
Benzyl alcohol	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/05/2015 18:52	83199
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/05/2015 18:52	83199
Surrogate: Nitrobenzene-d5	64.1		35-100	%REC	1	10/05/2015 18:52	83199
Surrogate: 2-Fluorobiphenyl	66.7		45-105	%REC	1	10/05/2015 18:52	83199
Surrogate: Terphenyl-d14	73.6		30-125	%REC	1	10/05/2015 18:52	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	71.0		40-100	%REC	1	10/05/2015 18:52	83199
Surrogate: 2-Fluorophenol	71.5		35-105	%REC	1	10/05/2015 18:52	83199
Surrogate: 2,4,6-Tribromophenol	56.0		35-125	%REC	1	10/05/2015 18:52	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Bis(2-chloroethyl)ether	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2-Chlorophenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
1,3-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
1,4-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
1,2-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2-Methylphenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
4-Methylphenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
N-Nitroso-di-n-propylamine	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Hexachloroethane	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Nitrobenzene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Isophorone	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2-Nitrophenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2,4-Dimethylphenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2,4-Dichlorophenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Naphthalene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
4-Chloroaniline	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Bis(2-chloroethoxy)methane	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Hexachlorobutadiene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2-Methylnaphthalene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Hexachlorocyclopentadiene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2,4,5-Trichlorophenol	ND		720	ug/Kg	1	10/05/2015 19:18	83199
2-Chloronaphthalene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 19:18	83199
Dimethylphthalate	130	J	350	ug/Kg	1	10/05/2015 19:18	83199
Acenaphthylene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2,6-Dinitrotoluene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
3-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 19:18	83199
Acenaphthene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2,4-Dinitrophenol	ND		720	ug/Kg	1	10/05/2015 19:18	83199
4-Nitrophenol	ND		720	ug/Kg	1	10/05/2015 19:18	83199
Dibenzofuran	ND		350	ug/Kg	1	10/05/2015 19:18	83199
2,4-Dinitrotoluene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Diethylphthalate	ND		350	ug/Kg	1	10/05/2015 19:18	83199
4-Chlorophenyl-phenylether	ND		350	ug/Kg	1	10/05/2015 19:18	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
4-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 19:18	83199
4,6-Dinitro-2-methylphenol	ND		720	ug/Kg	1	10/05/2015 19:18	83199
N-Nitrosodiphenylamine	ND		350	ug/Kg	1	10/05/2015 19:18	83199
4-Bromophenyl-phenylether	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Hexachlorobenzene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Pentachlorophenol	ND		720	ug/Kg	1	10/05/2015 19:18	83199
Phenanthrene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Anthracene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Carbazole	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Di-n-butylphthalate	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Fluoranthene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Pyrene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Butylbenzylphthalate	ND		350	ug/Kg	1	10/05/2015 19:18	83199
3,3´-Dichlorobenzidine	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Benzo(a)anthracene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Chrysene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Bis(2-ethylhexyl)phthalate	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Di-n-octylphthalate	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Benzo(b)fluoranthene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Benzo(k)fluoranthene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Benzo(a)pyrene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Dibenzo(a,h)anthracene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
1,1´-Biphenyl	ND		350	ug/Kg	1	10/05/2015 19:18	83199
3-Methylphenol + 4-Methylphenol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Acetophenone	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Aniline	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Azobenzene	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Benzidine	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Benzoic acid	ND		720	ug/Kg	1	10/05/2015 19:18	83199
Benzyl alcohol	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Bis(2-chloroisopropyl)ether	ND		350	ug/Kg	1	10/05/2015 19:18	83199
N-Nitrosodimethylamine	ND		350	ug/Kg	1	10/05/2015 19:18	83199
Surrogate: Nitrobenzene-d5	58.6		35-100	%REC	1	10/05/2015 19:18	83199
Surrogate: 2-Fluorobiphenyl	61.6		45-105	%REC	1	10/05/2015 19:18	83199
Surrogate: Terphenyl-d14	68.6		30-125	%REC	1	10/05/2015 19:18	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	61.5		40-100	%REC	1	10/05/2015 19:18	83199
Surrogate: 2-Fluorophenol	61.8		35-105	%REC	1	10/05/2015 19:18	83199
Surrogate: 2,4,6-Tribromophenol	49.5		35-125	%REC	1	10/05/2015 19:18	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Bis(2-chloroethyl)ether	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2-Chlorophenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
1,3-Dichlorobenzene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
1,4-Dichlorobenzene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
1,2-Dichlorobenzene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2-Methylphenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
4-Methylphenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
N-Nitroso-di-n-propylamine	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Hexachloroethane	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Nitrobenzene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Isophorone	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2-Nitrophenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2,4-Dimethylphenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2,4-Dichlorophenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
1,2,4-Trichlorobenzene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Naphthalene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
4-Chloroaniline	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Bis(2-chloroethoxy)methane	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Hexachlorobutadiene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
4-Chloro-3-methylphenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2-Methylnaphthalene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Hexachlorocyclopentadiene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2,4,6-Trichlorophenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2,4,5-Trichlorophenol	ND		690	ug/Kg	1	10/05/2015 19:45	83199
2-Chloronaphthalene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2-Nitroaniline	ND		690	ug/Kg	1	10/05/2015 19:45	83199
Dimethylphthalate	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Acenaphthylene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2,6-Dinitrotoluene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
3-Nitroaniline	ND		690	ug/Kg	1	10/05/2015 19:45	83199
Acenaphthene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2,4-Dinitrophenol	ND		690	ug/Kg	1	10/05/2015 19:45	83199
4-Nitrophenol	ND		690	ug/Kg	1	10/05/2015 19:45	83199
Dibenzofuran	ND		340	ug/Kg	1	10/05/2015 19:45	83199
2,4-Dinitrotoluene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Diethylphthalate	ND		340	ug/Kg	1	10/05/2015 19:45	83199
4-Chlorophenyl-phenylether	ND		340	ug/Kg	1	10/05/2015 19:45	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
4-Nitroaniline	ND		690	ug/Kg	1	10/05/2015 19:45	83199
4,6-Dinitro-2-methylphenol	ND		690	ug/Kg	1	10/05/2015 19:45	83199
N-Nitrosodiphenylamine	ND		340	ug/Kg	1	10/05/2015 19:45	83199
4-Bromophenyl-phenylether	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Hexachlorobenzene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Pentachlorophenol	ND		690	ug/Kg	1	10/05/2015 19:45	83199
Phenanthrene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Anthracene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Carbazole	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Di-n-butylphthalate	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Fluoranthene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Pyrene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Butylbenzylphthalate	ND		340	ug/Kg	1	10/05/2015 19:45	83199
3,3´-Dichlorobenzidine	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Benzo(a)anthracene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Chrysene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Bis(2-ethylhexyl)phthalate	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Di-n-octylphthalate	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Benzo(b)fluoranthene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Benzo(k)fluoranthene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Benzo(a)pyrene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Indeno(1,2,3-cd)pyrene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Dibenzo(a,h)anthracene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Benzo(g,h,i)perylene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
1,1´-Biphenyl	ND		340	ug/Kg	1	10/05/2015 19:45	83199
3-Methylphenol + 4-Methylphenol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Acetophenone	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Aniline	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Azobenzene	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Benzidine	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Benzoic acid	ND		690	ug/Kg	1	10/05/2015 19:45	83199
Benzyl alcohol	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Bis(2-chloroisopropyl)ether	ND		340	ug/Kg	1	10/05/2015 19:45	83199
N-Nitrosodimethylamine	ND		340	ug/Kg	1	10/05/2015 19:45	83199
Surrogate: Nitrobenzene-d5	55.7		35-100	%REC	1	10/05/2015 19:45	83199
Surrogate: 2-Fluorobiphenyl	54.8		45-105	%REC	1	10/05/2015 19:45	83199
Surrogate: Terphenyl-d14	63.6		30-125	%REC	1	10/05/2015 19:45	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	58.4		40-100	%REC	1	10/05/2015 19:45	83199
Surrogate: 2-Fluorophenol	58.0		35-105	%REC	1	10/05/2015 19:45	83199
Surrogate: 2,4,6-Tribromophenol	47.4		35-125	%REC	1	10/05/2015 19:45	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2-Chlorophenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2-Methylphenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Hexachloroethane	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Nitrobenzene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Isophorone	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2-Nitrophenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Naphthalene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
4-Chloroaniline	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Hexachlorobutadiene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2-Methylnaphthalene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2,4,5-Trichlorophenol	ND		750	ug/Kg	1	10/05/2015 20:11	83199
2-Chloronaphthalene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 20:11	83199
Dimethylphthalate	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Acenaphthylene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
3-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 20:11	83199
Acenaphthene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2,4-Dinitrophenol	ND		750	ug/Kg	1	10/05/2015 20:11	83199
4-Nitrophenol	ND		750	ug/Kg	1	10/05/2015 20:11	83199
Dibenzofuran	ND		370	ug/Kg	1	10/05/2015 20:11	83199
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Diethylphthalate	ND		370	ug/Kg	1	10/05/2015 20:11	83199
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 20:11	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
4-Nitroaniline	ND		750	ug/Kg	1	10/05/2015 20:11	83199
4,6-Dinitro-2-methylphenol	ND		750	ug/Kg	1	10/05/2015 20:11	83199
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/05/2015 20:11	83199
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Hexachlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Pentachlorophenol	ND		750	ug/Kg	1	10/05/2015 20:11	83199
Phenanthrene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Anthracene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Carbazole	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Di-n-butylphthalate	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Fluoranthene	190	J	370	ug/Kg	1	10/05/2015 20:11	83199
Pyrene	200	J	370	ug/Kg	1	10/05/2015 20:11	83199
Butylbenzylphthalate	ND		370	ug/Kg	1	10/05/2015 20:11	83199
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Benzo(a)anthracene	120	J	370	ug/Kg	1	10/05/2015 20:11	83199
Chrysene	140	J	370	ug/Kg	1	10/05/2015 20:11	83199
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Di-n-octylphthalate	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Benzo(b)fluoranthene	160	J	370	ug/Kg	1	10/05/2015 20:11	83199
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Benzo(a)pyrene	110	J	370	ug/Kg	1	10/05/2015 20:11	83199
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
1,1´-Biphenyl	ND		370	ug/Kg	1	10/05/2015 20:11	83199
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Acetophenone	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Aniline	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Azobenzene	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Benzidine	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Benzoic acid	ND		750	ug/Kg	1	10/05/2015 20:11	83199
Benzyl alcohol	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/05/2015 20:11	83199
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/05/2015 20:11	83199
Surrogate: Nitrobenzene-d5	59.1		35-100	%REC	1	10/05/2015 20:11	83199
Surrogate: 2-Fluorobiphenyl	61.0		45-105	%REC	1	10/05/2015 20:11	83199
Surrogate: Terphenyl-d14	76.1		30-125	%REC	1	10/05/2015 20:11	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	59.1		40-100	%REC	1	10/05/2015 20:11	83199
Surrogate: 2-Fluorophenol	60.5		35-105	%REC	1	10/05/2015 20:11	83199
Surrogate: 2,4,6-Tribromophenol	59.1		35-125	%REC	1	10/05/2015 20:11	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2-Chlorophenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2-Methylphenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Hexachloroethane	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Nitrobenzene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Isophorone	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2-Nitrophenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Naphthalene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
4-Chloroaniline	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Hexachlorobutadiene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2-Methylnaphthalene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2,4,5-Trichlorophenol	ND		740	ug/Kg	1	10/05/2015 20:37	83199
2-Chloronaphthalene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2-Nitroaniline	ND		740	ug/Kg	1	10/05/2015 20:37	83199
Dimethylphthalate	110	J	370	ug/Kg	1	10/05/2015 20:37	83199
Acenaphthylene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
3-Nitroaniline	ND		740	ug/Kg	1	10/05/2015 20:37	83199
Acenaphthene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2,4-Dinitrophenol	ND		740	ug/Kg	1	10/05/2015 20:37	83199
4-Nitrophenol	ND		740	ug/Kg	1	10/05/2015 20:37	83199
Dibenzofuran	ND		370	ug/Kg	1	10/05/2015 20:37	83199
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Diethylphthalate	ND		370	ug/Kg	1	10/05/2015 20:37	83199
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 20:37	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
4-Nitroaniline	ND		740	ug/Kg	1	10/05/2015 20:37	83199
4,6-Dinitro-2-methylphenol	ND		740	ug/Kg	1	10/05/2015 20:37	83199
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/05/2015 20:37	83199
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Hexachlorobenzene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Pentachlorophenol	ND		740	ug/Kg	1	10/05/2015 20:37	83199
Phenanthrene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Anthracene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Carbazole	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Di-n-butylphthalate	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Fluoranthene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Pyrene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Butylbenzylphthalate	ND		370	ug/Kg	1	10/05/2015 20:37	83199
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Benzo(a)anthracene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Chrysene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Di-n-octylphthalate	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Benzo(a)pyrene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
1,1´-Biphenyl	ND		370	ug/Kg	1	10/05/2015 20:37	83199
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Acetophenone	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Aniline	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Azobenzene	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Benzidine	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Benzoic acid	ND		740	ug/Kg	1	10/05/2015 20:37	83199
Benzyl alcohol	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/05/2015 20:37	83199
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/05/2015 20:37	83199
Surrogate: Nitrobenzene-d5	52.0		35-100	%REC	1	10/05/2015 20:37	83199
Surrogate: 2-Fluorobiphenyl	53.8		45-105	%REC	1	10/05/2015 20:37	83199
Surrogate: Terphenyl-d14	63.2		30-125	%REC	1	10/05/2015 20:37	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	56.7		40-100	%REC	1	10/05/2015 20:37	83199
Surrogate: 2-Fluorophenol	57.8		35-105	%REC	1	10/05/2015 20:37	83199
Surrogate: 2,4,6-Tribromophenol	45.1		35-125	%REC	1	10/05/2015 20:37	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2-Chlorophenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2-Methylphenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Hexachloroethane	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Nitrobenzene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Isophorone	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2-Nitrophenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Naphthalene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
4-Chloroaniline	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Hexachlorobutadiene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2-Methylnaphthalene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2,4,5-Trichlorophenol	ND		760	ug/Kg	1	10/05/2015 21:04	83199
2-Chloronaphthalene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2-Nitroaniline	ND		760	ug/Kg	1	10/05/2015 21:04	83199
Dimethylphthalate	140	J	370	ug/Kg	1	10/05/2015 21:04	83199
Acenaphthylene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
3-Nitroaniline	ND		760	ug/Kg	1	10/05/2015 21:04	83199
Acenaphthene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2,4-Dinitrophenol	ND		760	ug/Kg	1	10/05/2015 21:04	83199
4-Nitrophenol	ND		760	ug/Kg	1	10/05/2015 21:04	83199
Dibenzofuran	ND		370	ug/Kg	1	10/05/2015 21:04	83199
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Diethylphthalate	ND		370	ug/Kg	1	10/05/2015 21:04	83199
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 21:04	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
4-Nitroaniline	ND		760	ug/Kg	1	10/05/2015 21:04	83199
4,6-Dinitro-2-methylphenol	ND		760	ug/Kg	1	10/05/2015 21:04	83199
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/05/2015 21:04	83199
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Hexachlorobenzene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Pentachlorophenol	ND		760	ug/Kg	1	10/05/2015 21:04	83199
Phenanthrene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Anthracene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Carbazole	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Di-n-butylphthalate	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Fluoranthene	77	J	370	ug/Kg	1	10/05/2015 21:04	83199
Pyrene	76	J	370	ug/Kg	1	10/05/2015 21:04	83199
Butylbenzylphthalate	ND		370	ug/Kg	1	10/05/2015 21:04	83199
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Benzo(a)anthracene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Chrysene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Di-n-octylphthalate	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Benzo(a)pyrene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
1,1´-Biphenyl	ND		370	ug/Kg	1	10/05/2015 21:04	83199
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Acetophenone	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Aniline	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Azobenzene	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Benzidine	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Benzoic acid	100	J	760	ug/Kg	1	10/05/2015 21:04	83199
Benzyl alcohol	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/05/2015 21:04	83199
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/05/2015 21:04	83199
Surrogate: Nitrobenzene-d5	60.8		35-100	%REC	1	10/05/2015 21:04	83199
Surrogate: 2-Fluorobiphenyl	61.8		45-105	%REC	1	10/05/2015 21:04	83199
Surrogate: Terphenyl-d14	78.6		30-125	%REC	1	10/05/2015 21:04	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	66.6		40-100	%REC	1	10/05/2015 21:04	83199
Surrogate: 2-Fluorophenol	67.0		35-105	%REC	1	10/05/2015 21:04	83199
Surrogate: 2,4,6-Tribromophenol	55.4		35-125	%REC	1	10/05/2015 21:04	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Bis(2-chloroethyl)ether	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2-Chlorophenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
1,3-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
1,4-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
1,2-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2-Methylphenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
4-Methylphenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
N-Nitroso-di-n-propylamine	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Hexachloroethane	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Nitrobenzene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Isophorone	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2-Nitrophenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2,4-Dimethylphenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2,4-Dichlorophenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Naphthalene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
4-Chloroaniline	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Bis(2-chloroethoxy)methane	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Hexachlorobutadiene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2-Methylnaphthalene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Hexachlorocyclopentadiene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2,4,5-Trichlorophenol	ND		720	ug/Kg	1	10/05/2015 21:30	83199
2-Chloronaphthalene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 21:30	83199
Dimethylphthalate	84	J	350	ug/Kg	1	10/05/2015 21:30	83199
Acenaphthylene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2,6-Dinitrotoluene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
3-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 21:30	83199
Acenaphthene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2,4-Dinitrophenol	ND		720	ug/Kg	1	10/05/2015 21:30	83199
4-Nitrophenol	ND		720	ug/Kg	1	10/05/2015 21:30	83199
Dibenzofuran	ND		350	ug/Kg	1	10/05/2015 21:30	83199
2,4-Dinitrotoluene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Diethylphthalate	ND		350	ug/Kg	1	10/05/2015 21:30	83199
4-Chlorophenyl-phenylether	ND		350	ug/Kg	1	10/05/2015 21:30	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
4-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 21:30	83199
4,6-Dinitro-2-methylphenol	ND		720	ug/Kg	1	10/05/2015 21:30	83199
N-Nitrosodiphenylamine	ND		350	ug/Kg	1	10/05/2015 21:30	83199
4-Bromophenyl-phenylether	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Hexachlorobenzene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Pentachlorophenol	ND		720	ug/Kg	1	10/05/2015 21:30	83199
Phenanthrene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Anthracene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Carbazole	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Di-n-butylphthalate	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Fluoranthene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Pyrene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Butylbenzylphthalate	ND		350	ug/Kg	1	10/05/2015 21:30	83199
3,3´-Dichlorobenzidine	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Benzo(a)anthracene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Chrysene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Bis(2-ethylhexyl)phthalate	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Di-n-octylphthalate	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Benzo(b)fluoranthene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Benzo(k)fluoranthene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Benzo(a)pyrene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Dibenzo(a,h)anthracene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
1,1´-Biphenyl	ND		350	ug/Kg	1	10/05/2015 21:30	83199
3-Methylphenol + 4-Methylphenol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Acetophenone	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Aniline	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Azobenzene	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Benzidine	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Benzoic acid	ND		720	ug/Kg	1	10/05/2015 21:30	83199
Benzyl alcohol	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Bis(2-chloroisopropyl)ether	ND		350	ug/Kg	1	10/05/2015 21:30	83199
N-Nitrosodimethylamine	ND		350	ug/Kg	1	10/05/2015 21:30	83199
Surrogate: Nitrobenzene-d5	59.1		35-100	%REC	1	10/05/2015 21:30	83199
Surrogate: 2-Fluorobiphenyl	62.2		45-105	%REC	1	10/05/2015 21:30	83199
Surrogate: Terphenyl-d14	74.6		30-125	%REC	1	10/05/2015 21:30	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	63.1		40-100	%REC	1	10/05/2015 21:30	83199
Surrogate: 2-Fluorophenol	63.3		35-105	%REC	1	10/05/2015 21:30	83199
Surrogate: 2,4,6-Tribromophenol	46.4		35-125	%REC	1	10/05/2015 21:30	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Bis(2-chloroethyl)ether	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2-Chlorophenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
1,3-Dichlorobenzene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
1,4-Dichlorobenzene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
1,2-Dichlorobenzene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2-Methylphenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
4-Methylphenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
N-Nitroso-di-n-propylamine	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Hexachloroethane	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Nitrobenzene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Isophorone	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2-Nitrophenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2,4-Dimethylphenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2,4-Dichlorophenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
1,2,4-Trichlorobenzene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Naphthalene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
4-Chloroaniline	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Bis(2-chloroethoxy)methane	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Hexachlorobutadiene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
4-Chloro-3-methylphenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2-Methylnaphthalene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Hexachlorocyclopentadiene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2,4,6-Trichlorophenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2,4,5-Trichlorophenol	ND		690	ug/Kg	1	10/05/2015 21:56	83199
2-Chloronaphthalene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2-Nitroaniline	ND		690	ug/Kg	1	10/05/2015 21:56	83199
Dimethylphthalate	130	J	340	ug/Kg	1	10/05/2015 21:56	83199
Acenaphthylene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2,6-Dinitrotoluene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
3-Nitroaniline	ND		690	ug/Kg	1	10/05/2015 21:56	83199
Acenaphthene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2,4-Dinitrophenol	ND		690	ug/Kg	1	10/05/2015 21:56	83199
4-Nitrophenol	ND		690	ug/Kg	1	10/05/2015 21:56	83199
Dibenzofuran	ND		340	ug/Kg	1	10/05/2015 21:56	83199
2,4-Dinitrotoluene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Diethylphthalate	ND		340	ug/Kg	1	10/05/2015 21:56	83199
4-Chlorophenyl-phenylether	ND		340	ug/Kg	1	10/05/2015 21:56	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
4-Nitroaniline	ND		690	ug/Kg	1	10/05/2015 21:56	83199
4,6-Dinitro-2-methylphenol	ND		690	ug/Kg	1	10/05/2015 21:56	83199
N-Nitrosodiphenylamine	ND		340	ug/Kg	1	10/05/2015 21:56	83199
4-Bromophenyl-phenylether	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Hexachlorobenzene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Pentachlorophenol	ND		690	ug/Kg	1	10/05/2015 21:56	83199
Phenanthrene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Anthracene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Carbazole	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Di-n-butylphthalate	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Fluoranthene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Pyrene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Butylbenzylphthalate	ND		340	ug/Kg	1	10/05/2015 21:56	83199
3,3´-Dichlorobenzidine	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Benzo(a)anthracene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Chrysene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Bis(2-ethylhexyl)phthalate	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Di-n-octylphthalate	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Benzo(b)fluoranthene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Benzo(k)fluoranthene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Benzo(a)pyrene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Indeno(1,2,3-cd)pyrene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Dibenzo(a,h)anthracene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Benzo(g,h,i)perylene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
1,1´-Biphenyl	ND		340	ug/Kg	1	10/05/2015 21:56	83199
3-Methylphenol + 4-Methylphenol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Acetophenone	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Aniline	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Azobenzene	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Benzidine	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Benzoic acid	ND		690	ug/Kg	1	10/05/2015 21:56	83199
Benzyl alcohol	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Bis(2-chloroisopropyl)ether	ND		340	ug/Kg	1	10/05/2015 21:56	83199
N-Nitrosodimethylamine	ND		340	ug/Kg	1	10/05/2015 21:56	83199
Surrogate: Nitrobenzene-d5	61.5		35-100	%REC	1	10/05/2015 21:56	83199
Surrogate: 2-Fluorobiphenyl	63.8		45-105	%REC	1	10/05/2015 21:56	83199
Surrogate: Terphenyl-d14	76.2		30-125	%REC	1	10/05/2015 21:56	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	68.8		40-100	%REC	1	10/05/2015 21:56	83199
Surrogate: 2-Fluorophenol	67.1		35-105	%REC	1	10/05/2015 21:56	83199
Surrogate: 2,4,6-Tribromophenol	47.9		35-125	%REC	1	10/05/2015 21:56	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Bis(2-chloroethyl)ether	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2-Chlorophenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
1,3-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
1,4-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
1,2-Dichlorobenzene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2-Methylphenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
4-Methylphenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
N-Nitroso-di-n-propylamine	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Hexachloroethane	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Nitrobenzene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Isophorone	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2-Nitrophenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2,4-Dimethylphenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2,4-Dichlorophenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Naphthalene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
4-Chloroaniline	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Bis(2-chloroethoxy)methane	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Hexachlorobutadiene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2-Methylnaphthalene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Hexachlorocyclopentadiene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2,4,5-Trichlorophenol	ND		720	ug/Kg	1	10/05/2015 22:23	83199
2-Chloronaphthalene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 22:23	83199
Dimethylphthalate	170	J	350	ug/Kg	1	10/05/2015 22:23	83199
Acenaphthylene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2,6-Dinitrotoluene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
3-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 22:23	83199
Acenaphthene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2,4-Dinitrophenol	ND		720	ug/Kg	1	10/05/2015 22:23	83199
4-Nitrophenol	ND		720	ug/Kg	1	10/05/2015 22:23	83199
Dibenzofuran	ND		350	ug/Kg	1	10/05/2015 22:23	83199
2,4-Dinitrotoluene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Diethylphthalate	ND		350	ug/Kg	1	10/05/2015 22:23	83199
4-Chlorophenyl-phenylether	ND		350	ug/Kg	1	10/05/2015 22:23	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
4-Nitroaniline	ND		720	ug/Kg	1	10/05/2015 22:23	83199
4,6-Dinitro-2-methylphenol	ND		720	ug/Kg	1	10/05/2015 22:23	83199
N-Nitrosodiphenylamine	ND		350	ug/Kg	1	10/05/2015 22:23	83199
4-Bromophenyl-phenylether	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Hexachlorobenzene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Pentachlorophenol	ND		720	ug/Kg	1	10/05/2015 22:23	83199
Phenanthrene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Anthracene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Carbazole	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Di-n-butylphthalate	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Fluoranthene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Pyrene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Butylbenzylphthalate	ND		350	ug/Kg	1	10/05/2015 22:23	83199
3,3´-Dichlorobenzidine	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Benzo(a)anthracene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Chrysene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Bis(2-ethylhexyl)phthalate	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Di-n-octylphthalate	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Benzo(b)fluoranthene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Benzo(k)fluoranthene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Benzo(a)pyrene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Dibenzo(a,h)anthracene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
1,1´-Biphenyl	ND		350	ug/Kg	1	10/05/2015 22:23	83199
3-Methylphenol + 4-Methylphenol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Acetophenone	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Aniline	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Azobenzene	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Benzidine	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Benzoic acid	ND		720	ug/Kg	1	10/05/2015 22:23	83199
Benzyl alcohol	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Bis(2-chloroisopropyl)ether	ND		350	ug/Kg	1	10/05/2015 22:23	83199
N-Nitrosodimethylamine	ND		350	ug/Kg	1	10/05/2015 22:23	83199
Surrogate: Nitrobenzene-d5	63.0		35-100	%REC	1	10/05/2015 22:23	83199
Surrogate: 2-Fluorobiphenyl	63.8		45-105	%REC	1	10/05/2015 22:23	83199
Surrogate: Terphenyl-d14	79.0		30-125	%REC	1	10/05/2015 22:23	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	65.9		40-100	%REC	1	10/05/2015 22:23	83199
Surrogate: 2-Fluorophenol	67.2		35-105	%REC	1	10/05/2015 22:23	83199
Surrogate: 2,4,6-Tribromophenol	55.8		35-125	%REC	1	10/05/2015 22:23	83199

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83199** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**

Client ID: **MB-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 16:14** SeqNo: **2313254**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	37	330									
Bis(2-chloroethyl)ether	ND	42	330									
2-Chlorophenol	ND	41	330									
1,3-Dichlorobenzene	ND	40	330									
1,4-Dichlorobenzene	ND	36	330									
1,2-Dichlorobenzene	ND	42	330									
2-Methylphenol	ND	38	330									
4-Methylphenol	ND	35	330									
N-Nitroso-di-n-propylamine	ND	32	330									
Hexachloroethane	ND	35	330									
Nitrobenzene	ND	38	330									
Isophorone	ND	34	330									
2-Nitrophenol	ND	36	330									
2,4-Dimethylphenol	ND	36	330									
2,4-Dichlorophenol	ND	38	330									
1,2,4-Trichlorobenzene	ND	46	330									
Naphthalene	ND	41	330									
4-Chloroaniline	ND	24	330									
Bis(2-chloroethoxy)methane	ND	39	330									
Hexachlorobutadiene	ND	45	330									
4-Chloro-3-methylphenol	ND	26	330									
2-Methylnaphthalene	ND	42	330									
Hexachlorocyclopentadiene	ND	96	330									
2,4,6-Trichlorophenol	ND	39	330									
2,4,5-Trichlorophenol	ND	37	670									
2-Chloronaphthalene	ND	38	330									
2-Nitroaniline	ND	21	670									
Dimethylphthalate	ND	30	330									
Acenaphthylene	ND	37	330									
2,6-Dinitrotoluene	ND	28	330									
3-Nitroaniline	ND	24	670									
Acenaphthene	ND	39	330									
2,4-Dinitrophenol	ND	180	670									
4-Nitrophenol	ND	22	670									
Dibenzofuran	ND	36	330									
2,4-Dinitrotoluene	ND	23	330									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83199** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**
Client ID: **MB-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 16:14** SeqNo: **2313254**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylphthalate	ND	24	330									
4-Chlorophenyl-phenylether	ND	40	330									
Fluorene	ND	33	330									
4-Nitroaniline	ND	25	670									
4,6-Dinitro-2-methylphenol	ND	25	670									
N-Nitrosodiphenylamine	ND	29	330									
4-Bromophenyl-phenylether	ND	32	330									
Hexachlorobenzene	ND	32	330									
Pentachlorophenol	ND	140	670									
Phenanthrene	ND	26	330									
Anthracene	ND	27	330									
Carbazole	ND	28	330									
Di-n-butylphthalate	ND	28	330									
Fluoranthene	ND	29	330									
Pyrene	ND	32	330									
Butylbenzylphthalate	ND	26	330									
3,3´-Dichlorobenzidine	ND	35	330									
Benzo(a)anthracene	ND	33	330									
Chrysene	ND	29	330									
Bis(2-ethylhexyl)phthalate	ND	29	330									
Di-n-octylphthalate	ND	28	330									
Benzo(b)fluoranthene	ND	40	330									
Benzo(k)fluoranthene	ND	43	330									
Benzo(a)pyrene	ND	31	330									
Indeno(1,2,3-cd)pyrene	ND	37	330									
Dibenzo(a,h)anthracene	ND	35	330									
Benzo(g,h,i)perylene	ND	38	330									
1,1´-Biphenyl	ND	42	330									
3-Methylphenol + 4-Methylphenol	ND	35	330									
Acetophenone	ND	31	330									
Aniline	ND	24	330									
Azobenzene	ND	32	330									
Benzidine	ND	130	330									
Benzoic acid	ND	67	670									
Benzyl alcohol	ND	35	330									
Bis(2-chloroisopropyl)ether	ND	33	330									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83199** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**

Client ID: **MB-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 16:14** SeqNo: **2313254**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	ND	34	330									
Surrogate: Nitrobenzene-d5	2711		330	3333	0	81.3	35	100	0			
Surrogate: 2-Fluorobiphenyl	2700		330	3333	0	81.0	45	105	0			
Surrogate: Terphenyl-d14	3297		330	3333	0	98.9	30	125	0			
Surrogate: Phenol-d5	2975		330	3333	0	89.3	40	100	0			
Surrogate: 2-Fluorophenol	2950		330	3333	0	88.5	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2322		330	3333	0	69.7	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83199** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**
Client ID: **LCS-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 16:41** SeqNo: **2313255**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2414	37	330	3333	0	72.4	40	100	0			
Bis(2-chloroethyl)ether	2153	42	330	3333	0	64.6	40	105	0			
2-Chlorophenol	2388	41	330	3333	0	71.6	45	105	0			
1,3-Dichlorobenzene	2074	40	330	3333	0	62.2	40	100	0			
1,4-Dichlorobenzene	2085	36	330	3333	0	62.6	35	105	0			
1,2-Dichlorobenzene	2172	42	330	3333	0	65.2	45	95	0			
2-Methylphenol	2383	38	330	3333	0	71.5	40	105	0			
4-Methylphenol	2452	35	330	3333	0	73.6	40	105	0			
N-Nitroso-di-n-propylamine	2387	32	330	3333	0	71.6	40	115	0			
Hexachloroethane	2045	35	330	3333	0	61.4	35	110	0			
Nitrobenzene	2378	38	330	3333	0	71.4	40	115	0			
Isophorone	2354	34	330	3333	0	70.6	45	110	0			
2-Nitrophenol	2318	36	330	3333	0	69.5	40	110	0			
2,4-Dimethylphenol	2362	36	330	3333	0	70.9	30	105	0			
2,4-Dichlorophenol	2501	38	330	3333	0	75.0	45	110	0			
1,2,4-Trichlorobenzene	2227	46	330	3333	0	66.8	45	110	0			
Naphthalene	2323	41	330	3333	0	69.7	40	105	0			
4-Chloroaniline	2157	24	330	3333	0	64.7	10	100	0			
Bis(2-chloroethoxy)methane	2431	39	330	3333	0	72.9	45	110	0			
Hexachlorobutadiene	2191	45	330	3333	0	65.7	40	115	0			
4-Chloro-3-methylphenol	2527	26	330	3333	0	75.8	45	115	0			
2-Methylnaphthalene	2376	42	330	3333	0	71.3	45	105	0			
Hexachlorocyclopentadiene	1973	96	330	3333	0	59.2	8.0	148	0			
2,4,6-Trichlorophenol	2529	39	330	3333	0	75.9	45	110	0			
2,4,5-Trichlorophenol	2649	37	670	3333	0	79.5	50	110	0			
2-Chloronaphthalene	2517	38	330	3333	0	75.5	45	105	0			
2-Nitroaniline	2602	21	670	3333	0	78.1	45	120	0			
Dimethylphthalate	2583	30	330	3333	0	77.5	50	110	0			
Acenaphthylene	2563	37	330	3333	0	76.9	45	105	0			
2,6-Dinitrotoluene	2606	28	330	3333	0	78.2	50	110	0			
3-Nitroaniline	2351	24	670	3333	0	70.5	25	110	0			
Acenaphthene	2575	39	330	3333	0	77.3	45	110	0			
2,4-Dinitrophenol	2179	180	670	3333	0	65.4	15	130	0			
4-Nitrophenol	2639	22	670	3333	0	79.2	15	140	0			
Dibenzofuran	2604	36	330	3333	0	78.1	50	105	0			
2,4-Dinitrotoluene	2728	23	330	3333	0	81.9	50	115	0			
Diethylphthalate	2629	24	330	3333	0	78.9	50	115	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83199** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**

Client ID: **LCS-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 16:41** SeqNo: **2313255**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	2552	40	330	3333	0	76.6	45	110	0			
Fluorene	2592	33	330	3333	0	77.8	50	110	0			
4-Nitroaniline	2732	25	670	3333	0	82.0	35	115	0			
4,6-Dinitro-2-methylphenol	2418	25	670	3333	0	72.5	30	135	0			
N-Nitrosodiphenylamine	2613	29	330	3333	0	78.4	50	115	0			
4-Bromophenyl-phenylether	2488	32	330	3333	0	74.6	45	115	0			
Hexachlorobenzene	2373	32	330	3333	0	71.2	45	120	0			
Pentachlorophenol	1593	140	670	3333	0	47.8	25	120	0			
Phenanthrene	2609	26	330	3333	0	78.3	50	110	0			
Anthracene	2632	27	330	3333	0	79.0	55	105	0			
Carbazole	2589	28	330	3333	0	77.7	45	115	0			
Di-n-butylphthalate	2635	28	330	3333	0	79.0	55	110	0			
Fluoranthene	2609	29	330	3333	0	78.3	55	115	0			
Pyrene	2624	32	330	3333	0	78.7	45	125	0			
Butylbenzylphthalate	2641	26	330	3333	0	79.2	50	125	0			
3,3´-Dichlorobenzidine	2650	35	330	3333	0	79.5	10	130	0			
Benzo(a)anthracene	2757	33	330	3333	0	82.7	50	110	0			
Chrysene	2693	29	330	3333	0	80.8	55	110	0			
Bis(2-ethylhexyl)phthalate	2664	29	330	3333	0	79.9	45	125	0			
Di-n-octylphthalate	2834	28	330	3333	0	85.0	40	130	0			
Benzo(b)fluoranthene	2630	40	330	3333	0	78.9	45	115	0			
Benzo(k)fluoranthene	2618	43	330	3333	0	78.5	45	125	0			
Benzo(a)pyrene	2545	31	330	3333	0	76.4	50	110	0			
Indeno(1,2,3-cd)pyrene	2218	37	330	3333	0	66.5	40	120	0			
Dibenzo(a,h)anthracene	2407	35	330	3333	0	72.2	40	125	0			
Benzo(g,h,i)perylene	2296	38	330	3333	0	68.9	40	125	0			
1,1´-Biphenyl	2493	42	330	3333	0	74.8	50	121	0			
3-Methylphenol + 4-Methylphenol	2452	35	330	3333	0	73.6	40	105	0			
Acetophenone	2298	31	330	3333	0	68.9	50	150	0			
Aniline	1134	24	330	3333	0	34.0	10	150	0			
Azobenzene	2719	32	330	3333	0	81.6	50	150	0			
Benzyl alcohol	2458	35	330	3333	0	73.7	21	119	0			
Bis(2-chloroisopropyl)ether	2012	33	330	3333	0	60.4	40	140	0			
N-Nitrosodimethylamine	1970	34	330	3333	0	59.1	50	150	0			
Surrogate: Nitrobenzene-d5	2452		330	3333	0	73.6	35	100	0			
Surrogate: 2-Fluorobiphenyl	2564		330	3333	0	76.9	45	105	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83199** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**

Client ID: **LCS-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 16:41** SeqNo: **2313255**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Terphenyl-d14	2849		330	3333	0	85.5	30	125	0			
Surrogate: Phenol-d5	2487		330	3333	0	74.6	40	100	0			
Surrogate: 2-Fluorophenol	2589		330	3333	0	77.7	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2320		330	3333	0	69.6	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83199** SampType: **LCSD** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**

Client ID: **LCSD-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 17:07** SeqNo: **2313256**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2569	37	330	3333	0	77.1	40	100	2414	6.25	40	
Bis(2-chloroethyl)ether	2570	42	330	3333	0	77.1	40	105	2153	17.6	40	
2-Chlorophenol	2539	41	330	3333	0	76.2	45	105	2388	6.14	40	
1,3-Dichlorobenzene	2260	40	330	3333	0	67.8	40	100	2074	8.59	40	
1,4-Dichlorobenzene	2260	36	330	3333	0	67.8	35	105	2085	8.06	40	
1,2-Dichlorobenzene	2364	42	330	3333	0	70.9	45	95	2172	8.49	40	
2-Methylphenol	2578	38	330	3333	0	77.3	40	105	2383	7.85	40	
4-Methylphenol	2593	35	330	3333	0	77.8	40	105	2452	5.62	40	
N-Nitroso-di-n-propylamine	2545	32	330	3333	0	76.3	40	115	2387	6.4	40	
Hexachloroethane	2229	35	330	3333	0	66.9	35	110	2045	8.62	40	
Nitrobenzene	2554	38	330	3333	0	76.6	40	115	2378	7.13	40	
Isophorone	2478	34	330	3333	0	74.4	45	110	2354	5.15	40	
2-Nitrophenol	2584	36	330	3333	0	77.5	40	110	2318	10.9	40	
2,4-Dimethylphenol	2512	36	330	3333	0	75.4	30	105	2362	6.17	40	
2,4-Dichlorophenol	2559	38	330	3333	0	76.8	45	110	2501	2.29	40	
1,2,4-Trichlorobenzene	2438	46	330	3333	0	73.1	45	110	2227	9.03	40	
Naphthalene	2452	41	330	3333	0	73.6	40	105	2323	5.39	40	
4-Chloroaniline	2221	24	330	3333	0	66.6	10	100	2157	2.92	40	
Bis(2-chloroethoxy)methane	2621	39	330	3333	0	78.6	45	110	2431	7.51	40	
Hexachlorobutadiene	2385	45	330	3333	0	71.6	40	115	2191	8.47	40	
4-Chloro-3-methylphenol	2578	26	330	3333	0	77.4	45	115	2527	2.01	40	
2-Methylnaphthalene	2464	42	330	3333	0	73.9	45	105	2376	3.66	40	
Hexachlorocyclopentadiene	2125	96	330	3333	0	63.8	8.0	148	1973	7.45	40	
2,4,6-Trichlorophenol	2655	39	330	3333	0	79.7	45	110	2529	4.88	40	
2,4,5-Trichlorophenol	2667	37	670	3333	0	80.0	50	110	2649	0.678	40	
2-Chloronaphthalene	2624	38	330	3333	0	78.7	45	105	2517	4.16	40	
2-Nitroaniline	2702	21	670	3333	0	81.1	45	120	2602	3.81	40	
Dimethylphthalate	2646	30	330	3333	0	79.4	50	110	2583	2.41	40	
Acenaphthylene	2698	37	330	3333	0	80.9	45	105	2563	5.12	40	
2,6-Dinitrotoluene	2571	28	330	3333	0	77.1	50	110	2606	1.33	40	
3-Nitroaniline	2371	24	670	3333	0	71.1	25	110	2351	0.844	40	
Acenaphthene	2623	39	330	3333	0	78.7	45	110	2575	1.84	40	
2,4-Dinitrophenol	2106	180	670	3333	0	63.2	15	130	2179	3.41	40	
4-Nitrophenol	2784	22	670	3333	0	83.5	15	140	2639	5.36	40	
Dibenzofuran	2655	36	330	3333	0	79.7	50	105	2604	1.93	40	
2,6-Dinitrotoluene	2726	23	330	3333	0	81.8	50	115	2728	0.0825	40	
Diethylphthalate	2736	24	330	3333	0	82.1	50	115	2629	3.99	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83199** SampType: **LCSD** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**

Client ID: **LCSD-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 17:07** SeqNo: **2313256**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	2697	40	330	3333	0	80.9	45	110	2552	5.54	40	
Fluorene	2663	33	330	3333	0	79.9	50	110	2592	2.7	40	
4-Nitroaniline	2857	25	670	3333	0	85.7	35	115	2732	4.49	40	
4,6-Dinitro-2-methylphenol	2530	25	670	3333	0	75.9	30	135	2418	4.56	40	
N-Nitrosodiphenylamine	2702	29	330	3333	0	81.1	50	115	2613	3.35	40	
4-Bromophenyl-phenylether	2520	32	330	3333	0	75.6	45	115	2488	1.31	40	
Hexachlorobenzene	2438	32	330	3333	0	73.1	45	120	2373	2.69	40	
Pentachlorophenol	1636	140	670	3333	0	49.1	25	120	1593	2.66	40	
Phenanthrene	2652	26	330	3333	0	79.6	50	110	2609	1.64	40	
Anthracene	2682	27	330	3333	0	80.5	55	105	2632	1.88	40	
Carbazole	2686	28	330	3333	0	80.6	45	115	2589	3.71	40	
Di-n-butylphthalate	2756	28	330	3333	0	82.7	55	110	2635	4.5	40	
Fluoranthene	2721	29	330	3333	0	81.7	55	115	2609	4.2	40	
Pyrene	2675	32	330	3333	0	80.3	45	125	2624	1.93	40	
Butylbenzylphthalate	2675	26	330	3333	0	80.2	50	125	2641	1.27	40	
3,3´-Dichlorobenzidine	2624	35	330	3333	0	78.7	10	130	2650	0.973	40	
Benzo(a)anthracene	2834	33	330	3333	0	85.0	50	110	2757	2.75	40	
Chrysene	2779	29	330	3333	0	83.4	55	110	2693	3.17	40	
Bis(2-ethylhexyl)phthalate	2681	29	330	3333	0	80.4	45	125	2664	0.604	40	
Di-n-octylphthalate	2873	28	330	3333	0	86.2	40	130	2834	1.37	40	
Benzo(b)fluoranthene	2708	40	330	3333	0	81.2	45	115	2630	2.93	40	
Benzo(k)fluoranthene	2650	43	330	3333	0	79.5	45	125	2618	1.2	40	
Benzo(a)pyrene	2578	31	330	3333	0	77.3	50	110	2545	1.27	40	
Indeno(1,2,3-cd)pyrene	2192	37	330	3333	0	65.8	40	120	2218	1.17	40	
Dibenzo(a,h)anthracene	2316	35	330	3333	0	69.5	40	125	2407	3.87	40	
Benzo(g,h,i)perylene	2347	38	330	3333	0	70.4	40	125	2296	2.2	40	
1,1´-Biphenyl	2649	42	330	3333	0	79.5	50	121	2493	6.07	40	
3-Methylphenol + 4-Methylphenol	2593	35	330	3333	0	77.8	40	105	2452	5.62	40	
Acetophenone	2401	31	330	3333	0	72.0	50	150	2298	4.39	40	
Aniline	1223	24	330	3333	0	36.7	10	150	1134	7.53	40	
Azobenzene	2813	32	330	3333	0	84.4	50	150	2719	3.39	40	
Benzyl alcohol	2609	35	330	3333	0	78.3	21	119	2458	5.94	40	
Bis(2-chloroisopropyl)ether	2125	33	330	3333	0	63.7	40	140	2012	5.42	30	
N-Nitrosodimethylamine	2317	34	330	3333	0	69.5	50	150	1970	16.2	40	
Surrogate: Nitrobenzene-d5	2655		330	3333	0	79.6	35	100	0			
Surrogate: 2-Fluorobiphenyl	2633		330	3333	0	79.0	45	105	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83199** SampType: **LCSD** TestCode: **SW8270_S** Prep Date: **10/02/15 14:18** Run ID: **S6_151005A**

Client ID: **LCSD-83199** Batch ID: **83199** Units: **ug/Kg** Analysis Date **10/05/15 17:07** SeqNo: **2313256**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Terphenyl-d14	2800		330	3333	0	84.0	30	125	0			
Surrogate: Phenol-d5	2639		330	3333	0	79.2	40	100	0			
Surrogate: 2-Fluorophenol	2737		330	3333	0	82.1	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2282		330	3333	0	68.5	35	125	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/06/2015 6:56	83196
beta-BHC	ND		1.8	ug/Kg	1	10/06/2015 6:56	83196
delta-BHC	1.0	J	1.8	ug/Kg	1	10/06/2015 6:56	83196
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/06/2015 6:56	83196
Heptachlor	ND		1.8	ug/Kg	1	10/06/2015 6:56	83196
Aldrin	ND		1.8	ug/Kg	1	10/06/2015 6:56	83196
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/06/2015 6:56	83196
Endosulfan I	ND		1.8	ug/Kg	1	10/06/2015 6:56	83196
Dieldrin	ND		3.5	ug/Kg	1	10/06/2015 6:56	83196
4,4´-DDE	16		3.5	ug/Kg	1	10/06/2015 6:56	83196
Endrin	ND		3.5	ug/Kg	1	10/06/2015 6:56	83196
Endosulfan II	ND		3.5	ug/Kg	1	10/06/2015 6:56	83196
4,4´-DDD	3.4	J	3.5	ug/Kg	1	10/06/2015 6:56	83196
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/06/2015 6:56	83196
4,4´-DDT	6.8		3.5	ug/Kg	1	10/06/2015 6:56	83196
Methoxychlor	ND		18	ug/Kg	1	10/06/2015 6:56	83196
Endrin ketone	ND		3.5	ug/Kg	1	10/06/2015 6:56	83196
Endrin aldehyde	ND		3.5	ug/Kg	1	10/06/2015 6:56	83196
alpha-Chlordane	2.8	P	1.8	ug/Kg	1	10/06/2015 6:56	83196
gamma-Chlordane	1.0	J	1.8	ug/Kg	1	10/06/2015 6:56	83196
Toxaphene	ND		180	ug/Kg	1	10/06/2015 6:56	83196
Surrogate: Tetrachloro-m-xylene	37.6		14-113	%REC	1	10/06/2015 6:56	83196
Surrogate: Decachlorobiphenyl	37.0	S	55-130	%REC	1	10/06/2015 6:56	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
Dieldrin	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
4,4´-DDE	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
Endrin	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
Endosulfan II	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
4,4´-DDD	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
4,4´-DDT	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 7:11	83196
Endrin ketone	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
Endrin aldehyde	ND		3.7	ug/Kg	1	10/06/2015 7:11	83196
alpha-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 7:11	83196
Toxaphene	ND		190	ug/Kg	1	10/06/2015 7:11	83196
Surrogate: Tetrachloro-m-xylene	56.0		14-113	%REC	1	10/06/2015 7:11	83196
Surrogate: Decachlorobiphenyl	58.1		55-130	%REC	1	10/06/2015 7:11	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		3.8	ug/Kg	2	10/06/2015 18:38	83196
beta-BHC	ND		3.8	ug/Kg	2	10/06/2015 18:38	83196
delta-BHC	ND		3.8	ug/Kg	2	10/06/2015 18:38	83196
gamma-BHC (Lindane)	ND		3.8	ug/Kg	2	10/06/2015 18:38	83196
Heptachlor	ND		3.8	ug/Kg	2	10/06/2015 18:38	83196
Aldrin	ND		3.8	ug/Kg	2	10/06/2015 18:38	83196
Heptachlor epoxide	ND		3.8	ug/Kg	2	10/06/2015 18:38	83196
Endosulfan I	ND		3.8	ug/Kg	2	10/06/2015 18:38	83196
Dieldrin	ND		7.4	ug/Kg	2	10/06/2015 18:38	83196
4,4´-DDE	46		7.4	ug/Kg	2	10/06/2015 18:38	83196
Endrin	ND		7.4	ug/Kg	2	10/06/2015 18:38	83196
Endosulfan II	ND		7.4	ug/Kg	2	10/06/2015 18:38	83196
4,4´-DDD	18		7.4	ug/Kg	2	10/06/2015 18:38	83196
Endosulfan sulfate	ND		7.4	ug/Kg	2	10/06/2015 18:38	83196
4,4´-DDT	15		7.4	ug/Kg	2	10/06/2015 18:38	83196
Methoxychlor	ND		38	ug/Kg	2	10/06/2015 18:38	83196
Endrin ketone	ND		7.4	ug/Kg	2	10/06/2015 18:38	83196
Endrin aldehyde	ND		7.4	ug/Kg	2	10/06/2015 18:38	83196
alpha-Chlordane	15		3.8	ug/Kg	2	10/06/2015 18:38	83196
gamma-Chlordane	3.9		3.8	ug/Kg	2	10/06/2015 18:38	83196
Toxaphene	ND		380	ug/Kg	2	10/06/2015 18:38	83196
Surrogate: Tetrachloro-m-xylene	47.4		14-113	%REC	2	10/06/2015 18:38	83196
Surrogate: Decachlorobiphenyl	60.5		55-130	%REC	2	10/06/2015 18:38	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
Dieldrin	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
4,4´-DDE	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
Endrin	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
Endosulfan II	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
4,4´-DDD	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
4,4´-DDT	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 7:42	83196
Endrin ketone	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
Endrin aldehyde	ND		3.7	ug/Kg	1	10/06/2015 7:42	83196
alpha-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 7:42	83196
Toxaphene	ND		190	ug/Kg	1	10/06/2015 7:42	83196
Surrogate: Tetrachloro-m-xylene	46.4		14-113	%REC	1	10/06/2015 7:42	83196
Surrogate: Decachlorobiphenyl	43.8	S	55-130	%REC	1	10/06/2015 7:42	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 7:57	83196
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 7:57	83196
delta-BHC	1.0	J	1.9	ug/Kg	1	10/06/2015 7:57	83196
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 7:57	83196
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 7:57	83196
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 7:57	83196
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 7:57	83196
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 7:57	83196
Dieldrin	ND		3.6	ug/Kg	1	10/06/2015 7:57	83196
4,4´-DDE	16		3.6	ug/Kg	1	10/06/2015 7:57	83196
Endrin	ND		3.6	ug/Kg	1	10/06/2015 7:57	83196
Endosulfan II	ND		3.6	ug/Kg	1	10/06/2015 7:57	83196
4,4´-DDD	2.0	J	3.6	ug/Kg	1	10/06/2015 7:57	83196
Endosulfan sulfate	ND		3.6	ug/Kg	1	10/06/2015 7:57	83196
4,4´-DDT	4.0		3.6	ug/Kg	1	10/06/2015 7:57	83196
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 7:57	83196
Endrin ketone	ND		3.6	ug/Kg	1	10/06/2015 7:57	83196
Endrin aldehyde	ND		3.6	ug/Kg	1	10/06/2015 7:57	83196
alpha-Chlordane	2.0	P	1.9	ug/Kg	1	10/06/2015 7:57	83196
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 7:57	83196
Toxaphene	ND		190	ug/Kg	1	10/06/2015 7:57	83196
Surrogate: Tetrachloro-m-xylene	53.2		14-113	%REC	1	10/06/2015 7:57	83196
Surrogate: Decachlorobiphenyl	46.2	S	55-130	%REC	1	10/06/2015 7:57	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
beta-BHC	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
delta-BHC	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
Heptachlor	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
Aldrin	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
Endosulfan I	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
Dieldrin	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
4,4´-DDE	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
Endrin	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
Endosulfan II	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
4,4´-DDD	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
4,4´-DDT	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
Methoxychlor	ND		18	ug/Kg	1	10/06/2015 8:12	83196
Endrin ketone	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
Endrin aldehyde	ND		3.5	ug/Kg	1	10/06/2015 8:12	83196
alpha-Chlordane	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
gamma-Chlordane	ND		1.8	ug/Kg	1	10/06/2015 8:12	83196
Toxaphene	ND		180	ug/Kg	1	10/06/2015 8:12	83196
Surrogate: Tetrachloro-m-xylene	62.8		14-113	%REC	1	10/06/2015 8:12	83196
Surrogate: Decachlorobiphenyl	57.7		55-130	%REC	1	10/06/2015 8:12	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
Dieldrin	ND		3.7	ug/Kg	1	10/06/2015 8:27	83196
4,4´-DDE	7.5		3.7	ug/Kg	1	10/06/2015 8:27	83196
Endrin	ND		3.7	ug/Kg	1	10/06/2015 8:27	83196
Endosulfan II	ND		3.7	ug/Kg	1	10/06/2015 8:27	83196
4,4´-DDD	ND		3.7	ug/Kg	1	10/06/2015 8:27	83196
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/06/2015 8:27	83196
4,4´-DDT	2.8	J	3.7	ug/Kg	1	10/06/2015 8:27	83196
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 8:27	83196
Endrin ketone	ND		3.7	ug/Kg	1	10/06/2015 8:27	83196
Endrin aldehyde	ND		3.7	ug/Kg	1	10/06/2015 8:27	83196
alpha-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 8:27	83196
Toxaphene	ND		190	ug/Kg	1	10/06/2015 8:27	83196
Surrogate: Tetrachloro-m-xylene	44.9		14-113	%REC	1	10/06/2015 8:27	83196
Surrogate: Decachlorobiphenyl	53.6	S	55-130	%REC	1	10/06/2015 8:27	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
Dieldrin	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
4,4´-DDE	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
Endrin	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
Endosulfan II	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
4,4´-DDD	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
4,4´-DDT	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 8:43	83196
Endrin ketone	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
Endrin aldehyde	ND		3.7	ug/Kg	1	10/06/2015 8:43	83196
alpha-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 8:43	83196
Toxaphene	ND		190	ug/Kg	1	10/06/2015 8:43	83196
Surrogate: Tetrachloro-m-xylene	54.3		14-113	%REC	1	10/06/2015 8:43	83196
Surrogate: Decachlorobiphenyl	46.2	S	55-130	%REC	1	10/06/2015 8:43	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
Dieldrin	ND		3.8	ug/Kg	1	10/06/2015 8:58	83196
4,4´-DDE	4.4		3.8	ug/Kg	1	10/06/2015 8:58	83196
Endrin	ND		3.8	ug/Kg	1	10/06/2015 8:58	83196
Endosulfan II	ND		3.8	ug/Kg	1	10/06/2015 8:58	83196
4,4´-DDD	ND		3.8	ug/Kg	1	10/06/2015 8:58	83196
Endosulfan sulfate	ND		3.8	ug/Kg	1	10/06/2015 8:58	83196
4,4´-DDT	2.7	J	3.8	ug/Kg	1	10/06/2015 8:58	83196
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 8:58	83196
Endrin ketone	ND		3.8	ug/Kg	1	10/06/2015 8:58	83196
Endrin aldehyde	ND		3.8	ug/Kg	1	10/06/2015 8:58	83196
alpha-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 8:58	83196
Toxaphene	ND		190	ug/Kg	1	10/06/2015 8:58	83196
Surrogate: Tetrachloro-m-xylene	52.2		14-113	%REC	1	10/06/2015 8:58	83196
Surrogate: Decachlorobiphenyl	44.3	S	55-130	%REC	1	10/06/2015 8:58	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
beta-BHC	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
delta-BHC	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
Heptachlor	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
Aldrin	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
Endosulfan I	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
Dieldrin	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
4,4´-DDE	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
Endrin	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
Endosulfan II	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
4,4´-DDD	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
4,4´-DDT	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
Methoxychlor	ND		18	ug/Kg	1	10/06/2015 9:13	83196
Endrin ketone	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
Endrin aldehyde	ND		3.5	ug/Kg	1	10/06/2015 9:13	83196
alpha-Chlordane	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
gamma-Chlordane	ND		1.8	ug/Kg	1	10/06/2015 9:13	83196
Toxaphene	ND		180	ug/Kg	1	10/06/2015 9:13	83196
Surrogate: Tetrachloro-m-xylene	52.7		14-113	%REC	1	10/06/2015 9:13	83196
Surrogate: Decachlorobiphenyl	46.5	S	55-130	%REC	1	10/06/2015 9:13	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		18	ug/Kg	10	10/06/2015 18:53	83196
beta-BHC	ND		18	ug/Kg	10	10/06/2015 18:53	83196
delta-BHC	ND		18	ug/Kg	10	10/06/2015 18:53	83196
gamma-BHC (Lindane)	ND		18	ug/Kg	10	10/06/2015 18:53	83196
Heptachlor	ND		18	ug/Kg	10	10/06/2015 18:53	83196
Aldrin	ND		18	ug/Kg	10	10/06/2015 18:53	83196
Heptachlor epoxide	43		18	ug/Kg	10	10/06/2015 18:53	83196
Endosulfan I	ND		18	ug/Kg	10	10/06/2015 18:53	83196
Dieldrin	150		35	ug/Kg	10	10/06/2015 18:53	83196
4,4´-DDE	39		35	ug/Kg	10	10/06/2015 18:53	83196
Endrin	ND		35	ug/Kg	10	10/06/2015 18:53	83196
Endosulfan II	ND		35	ug/Kg	10	10/06/2015 18:53	83196
4,4´-DDD	110		35	ug/Kg	10	10/06/2015 18:53	83196
Endosulfan sulfate	ND		35	ug/Kg	10	10/06/2015 18:53	83196
4,4´-DDT	ND		35	ug/Kg	10	10/06/2015 18:53	83196
Methoxychlor	ND		180	ug/Kg	10	10/06/2015 18:53	83196
Endrin ketone	ND		35	ug/Kg	10	10/06/2015 18:53	83196
Endrin aldehyde	ND		35	ug/Kg	10	10/06/2015 18:53	83196
alpha-Chlordane	270		18	ug/Kg	10	10/06/2015 18:53	83196
gamma-Chlordane	160		18	ug/Kg	10	10/06/2015 18:53	83196
Toxaphene	ND		1800	ug/Kg	10	10/06/2015 18:53	83196
Surrogate: Tetrachloro-m-xylene	47.6		14-113	%REC	10	10/06/2015 18:53	83196
Surrogate: Decachlorobiphenyl	74.3		55-130	%REC	10	10/06/2015 18:53	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		3.7	ug/Kg	2	10/06/2015 19:09	83196
beta-BHC	ND		3.7	ug/Kg	2	10/06/2015 19:09	83196
delta-BHC	ND		3.7	ug/Kg	2	10/06/2015 19:09	83196
gamma-BHC (Lindane)	ND		3.7	ug/Kg	2	10/06/2015 19:09	83196
Heptachlor	ND		3.7	ug/Kg	2	10/06/2015 19:09	83196
Aldrin	ND		3.7	ug/Kg	2	10/06/2015 19:09	83196
Heptachlor epoxide	4.2		3.7	ug/Kg	2	10/06/2015 19:09	83196
Endosulfan I	ND		3.7	ug/Kg	2	10/06/2015 19:09	83196
Dieldrin	19		7.1	ug/Kg	2	10/06/2015 19:09	83196
4,4´-DDE	3.6	J	7.1	ug/Kg	2	10/06/2015 19:09	83196
Endrin	ND		7.1	ug/Kg	2	10/06/2015 19:09	83196
Endosulfan II	ND		7.1	ug/Kg	2	10/06/2015 19:09	83196
4,4´-DDD	14		7.1	ug/Kg	2	10/06/2015 19:09	83196
Endosulfan sulfate	ND		7.1	ug/Kg	2	10/06/2015 19:09	83196
4,4´-DDT	ND		7.1	ug/Kg	2	10/06/2015 19:09	83196
Methoxychlor	ND		37	ug/Kg	2	10/06/2015 19:09	83196
Endrin ketone	ND		7.1	ug/Kg	2	10/06/2015 19:09	83196
Endrin aldehyde	ND		7.1	ug/Kg	2	10/06/2015 19:09	83196
alpha-Chlordane	37		3.7	ug/Kg	2	10/06/2015 19:09	83196
gamma-Chlordane	20		3.7	ug/Kg	2	10/06/2015 19:09	83196
Toxaphene	ND		370	ug/Kg	2	10/06/2015 19:09	83196
Surrogate: Tetrachloro-m-xylene	43.0		14-113	%REC	2	10/06/2015 19:09	83196
Surrogate: Decachlorobiphenyl	49.0	S	55-130	%REC	2	10/06/2015 19:09	83196

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **MB-83196** SampType: **MBLK** TestCode: **SW8081_S** Prep Date: **10/02/15 12:35** Run ID: **E6_151005A**

Client ID: **MB-83196** Batch ID: **83196** Units: **ug/Kg** Analysis Date **10/05/15 16:43** SeqNo: **2313297**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.056	1.7									
beta-BHC	ND	0.063	1.7									
delta-BHC	ND	0.12	1.7									
gamma-BHC (Lindane)	ND	0.055	1.7									
Heptachlor	ND	0.072	1.7									
Aldrin	ND	0.11	1.7									
Heptachlor epoxide	ND	0.16	1.7									
Endosulfan I	ND	0.060	1.7									
Dieldrin	ND	0.16	3.3									
4,4´-DDE	ND	0.25	3.3									
Endrin	ND	0.14	3.3									
Endosulfan II	ND	0.15	3.3									
4,4´-DDD	ND	0.22	3.3									
Endosulfan sulfate	ND	0.13	3.3									
4,4´-DDT	ND	0.33	3.3									
Methoxychlor	ND	0.88	17									
Endrin ketone	ND	0.12	3.3									
Endrin aldehyde	ND	0.23	3.3									
alpha-Chlordane	ND	0.087	1.7									
gamma-Chlordane	ND	0.21	1.7									
Toxaphene	ND	8.8	170									
Surrogate: Tetrachloro-m-xylene	12.82		1.7	20.00	0	64.1	14	113	0			
Surrogate: Decachlorobiphenyl	27.48		3.3	40.00	0	68.7	55	130	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCS-83196** SampType: **LCS** TestCode: **SW8081_S** Prep Date: **10/02/15 12:35** Run ID: **E6_151005A**
Client ID: **LCS-83196** Batch ID: **83196** Units: **ug/Kg** Analysis Date **10/05/15 16:58** SeqNo: **2313298**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	5.281	0.056	1.7	6.667	0	79.2	60	125	0			
beta-BHC	5.548	0.063	1.7	6.667	0	83.2	60	125	0			
delta-BHC	4.981	0.12	1.7	6.667	0	74.7	55	130	0			
gamma-BHC (Lindane)	5.330	0.055	1.7	6.667	0	80.0	60	125	0			
Heptachlor	4.947	0.072	1.7	6.667	0	74.2	50	140	0			
Aldrin	5.324	0.11	1.7	6.667	0	79.9	45	140	0			
Heptachlor epoxide	5.351	0.16	1.7	6.667	0	80.3	65	130	0			
Endosulfan I	5.175	0.060	1.7	6.667	0	77.6	15	135	0			
Dieldrin	10.52	0.16	3.3	13.33	0	78.9	65	125	0			
4,4´-DDE	10.65	0.25	3.3	13.33	0	79.9	70	125	0			
Endrin	10.85	0.14	3.3	13.33	0	81.4	60	135	0			
Endosulfan II	9.828	0.15	3.3	13.33	0	73.7	35	140	0			
4,4´-DDD	9.329	0.22	3.3	13.33	0	70.0	30	135	0			
Endosulfan sulfate	9.990	0.13	3.3	13.33	0	74.9	60	135	0			
4,4´-DDT	9.203	0.33	3.3	13.33	0	69.0	45	140	0			
Methoxychlor	45.27	0.88	17	66.67	0	67.9	55	145	0			
Endrin ketone	9.752	0.12	3.3	13.33	0	73.1	65	135	0			
Endrin aldehyde	10.17	0.23	3.3	13.33	0	76.3	35	145	0			
alpha-Chlordane	5.264	0.087	1.7	6.667	0	79.0	65	120	0			
gamma-Chlordane	5.164	0.21	1.7	6.667	0	77.5	65	125	0			
Surrogate: Decachlorobiphenyl	30.35		3.3	40.00	0	75.9	55	130	0			

Sample ID: **LCS-83196** SampType: **LCS** TestCode: **SW8081_S** Prep Date: **10/02/15 12:35** Run ID: **E6_151005B**
Client ID: **LCS-83196** Batch ID: **83196** Units: **ug/Kg** Analysis Date **10/05/15 16:58** SeqNo: **2313390**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	16.18		1.7	20.00	0	80.9	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCSD-83196** SampType: **LCSD** TestCode: **SW8081_S** Prep Date: **10/02/15 12:35** Run ID: **E6_151005A**
Client ID: **LCSD-83196** Batch ID: **83196** Units: **ug/Kg** Analysis Date **10/05/15 17:14** SeqNo: **2313299**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	5.534	0.056	1.7	6.667	0	83.0	60	125	5.281	4.68	30	
beta-BHC	5.856	0.063	1.7	6.667	0	87.8	60	125	5.548	5.4	30	
delta-BHC	5.340	0.12	1.7	6.667	0	80.1	55	130	4.981	6.94	30	
gamma-BHC (Lindane)	5.597	0.055	1.7	6.667	0	84.0	60	125	5.330	4.88	30	
Heptachlor	5.199	0.072	1.7	6.667	0	78.0	50	140	4.947	4.97	30	
Aldrin	5.641	0.11	1.7	6.667	0	84.6	45	140	5.324	5.79	30	
Heptachlor epoxide	5.686	0.16	1.7	6.667	0	85.3	65	130	5.351	6.07	30	
Endosulfan I	5.580	0.060	1.7	6.667	0	83.7	15	135	5.175	7.53	30	
Dieldrin	11.42	0.16	3.3	13.33	0	85.6	65	125	10.52	8.14	30	
4,4´-DDE	11.66	0.25	3.3	13.33	0	87.5	70	125	10.65	9.03	30	
Endrin	11.85	0.14	3.3	13.33	0	88.9	60	135	10.85	8.85	30	
Endosulfan II	10.99	0.15	3.3	13.33	0	82.4	35	140	9.828	11.1	30	
4,4´-DDD	10.45	0.22	3.3	13.33	0	78.3	30	135	9.329	11.3	30	
Endosulfan sulfate	11.43	0.13	3.3	13.33	0	85.7	60	135	9.990	13.4	30	
4,4´-DDT	10.69	0.33	3.3	13.33	0	80.2	45	140	9.203	15	30	
Methoxychlor	52.93	0.88	17	66.67	0	79.4	55	145	45.27	15.6	30	
Endrin ketone	11.26	0.12	3.3	13.33	0	84.4	65	135	9.752	14.3	30	
Endrin aldehyde	11.39	0.23	3.3	13.33	0	85.5	35	145	10.17	11.4	30	
alpha-Chlordane	5.666	0.087	1.7	6.667	0	85.0	65	120	5.264	7.35	30	
gamma-Chlordane	5.547	0.21	1.7	6.667	0	83.2	65	125	5.164	7.15	30	
Surrogate: Decachlorobiphenyl	36.60		3.3	40.00	0	91.5	55	130	0			

Sample ID: **LCSD-83196** SampType: **LCSD** TestCode: **SW8081_S** Prep Date: **10/02/15 12:35** Run ID: **E6_151005B**
Client ID: **LCSD-83196** Batch ID: **83196** Units: **ug/Kg** Analysis Date **10/05/15 17:14** SeqNo: **2313391**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	16.69		1.7	20.00	0	83.4	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/06/2015 11:57	83197
Aroclor-1221	ND		35	ug/Kg	1	10/06/2015 11:57	83197
Aroclor-1232	ND		35	ug/Kg	1	10/06/2015 11:57	83197
Aroclor-1242	ND		35	ug/Kg	1	10/06/2015 11:57	83197
Aroclor-1248	ND		35	ug/Kg	1	10/06/2015 11:57	83197
Aroclor-1254	ND		35	ug/Kg	1	10/06/2015 11:57	83197
Aroclor-1260	ND		35	ug/Kg	1	10/06/2015 11:57	83197
Surrogate: Tetrachloro-m-xylene	50.9		34-147	%REC	1	10/06/2015 11:57	83197
Surrogate: Decachlorobiphenyl	55.5	S	60-125	%REC	1	10/06/2015 11:57	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 12:11	83197
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 12:11	83197
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 12:11	83197
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 12:11	83197
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 12:11	83197
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 12:11	83197
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 12:11	83197
Surrogate: Tetrachloro-m-xylene	67.2		34-147	%REC	1	10/06/2015 12:11	83197
Surrogate: Decachlorobiphenyl	71.7		60-125	%REC	1	10/06/2015 12:11	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 12:25	83197
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 12:25	83197
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 12:25	83197
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 12:25	83197
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 12:25	83197
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 12:25	83197
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 12:25	83197
Surrogate: Tetrachloro-m-xylene	66.8		34-147	%REC	1	10/06/2015 12:25	83197
Surrogate: Decachlorobiphenyl	71.6		60-125	%REC	1	10/06/2015 12:25	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 12:39	83197
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 12:39	83197
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 12:39	83197
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 12:39	83197
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 12:39	83197
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 12:39	83197
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 12:39	83197
Surrogate: Tetrachloro-m-xylene	57.3		34-147	%REC	1	10/06/2015 12:39	83197
Surrogate: Decachlorobiphenyl	62.0		60-125	%REC	1	10/06/2015 12:39	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		36	ug/Kg	1	10/06/2015 12:54	83197
Aroclor-1221	ND		36	ug/Kg	1	10/06/2015 12:54	83197
Aroclor-1232	ND		36	ug/Kg	1	10/06/2015 12:54	83197
Aroclor-1242	ND		36	ug/Kg	1	10/06/2015 12:54	83197
Aroclor-1248	ND		36	ug/Kg	1	10/06/2015 12:54	83197
Aroclor-1254	ND		36	ug/Kg	1	10/06/2015 12:54	83197
Aroclor-1260	ND		36	ug/Kg	1	10/06/2015 12:54	83197
Surrogate: Tetrachloro-m-xylene	70.5		34-147	%REC	1	10/06/2015 12:54	83197
Surrogate: Decachlorobiphenyl	75.3		60-125	%REC	1	10/06/2015 12:54	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/06/2015 13:08	83197
Aroclor-1221	ND		35	ug/Kg	1	10/06/2015 13:08	83197
Aroclor-1232	ND		35	ug/Kg	1	10/06/2015 13:08	83197
Aroclor-1242	ND		35	ug/Kg	1	10/06/2015 13:08	83197
Aroclor-1248	ND		35	ug/Kg	1	10/06/2015 13:08	83197
Aroclor-1254	ND		35	ug/Kg	1	10/06/2015 13:08	83197
Aroclor-1260	ND		35	ug/Kg	1	10/06/2015 13:08	83197
Surrogate: Tetrachloro-m-xylene	83.5		34-147	%REC	1	10/06/2015 13:08	83197
Surrogate: Decachlorobiphenyl	88.8		60-125	%REC	1	10/06/2015 13:08	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 13:23	83197
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 13:23	83197
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 13:23	83197
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 13:23	83197
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 13:23	83197
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 13:23	83197
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 13:23	83197
Surrogate: Tetrachloro-m-xylene	68.4		34-147	%REC	1	10/06/2015 13:23	83197
Surrogate: Decachlorobiphenyl	81.8		60-125	%REC	1	10/06/2015 13:23	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 13:37	83197
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 13:37	83197
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 13:37	83197
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 13:37	83197
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 13:37	83197
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 13:37	83197
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 13:37	83197
Surrogate: Tetrachloro-m-xylene	64.1		34-147	%REC	1	10/06/2015 13:37	83197
Surrogate: Decachlorobiphenyl	69.0		60-125	%REC	1	10/06/2015 13:37	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		38	ug/Kg	1	10/06/2015 13:51	83197
Aroclor-1221	ND		38	ug/Kg	1	10/06/2015 13:51	83197
Aroclor-1232	ND		38	ug/Kg	1	10/06/2015 13:51	83197
Aroclor-1242	ND		38	ug/Kg	1	10/06/2015 13:51	83197
Aroclor-1248	ND		38	ug/Kg	1	10/06/2015 13:51	83197
Aroclor-1254	ND		38	ug/Kg	1	10/06/2015 13:51	83197
Aroclor-1260	ND		38	ug/Kg	1	10/06/2015 13:51	83197
Surrogate: Tetrachloro-m-xylene	65.7		34-147	%REC	1	10/06/2015 13:51	83197
Surrogate: Decachlorobiphenyl	69.8		60-125	%REC	1	10/06/2015 13:51	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507
Lab ID: P1453-10
Project: Barrington, RI site
Collection Date: 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/06/2015 14:05	83197
Aroclor-1221	ND		35	ug/Kg	1	10/06/2015 14:05	83197
Aroclor-1232	ND		35	ug/Kg	1	10/06/2015 14:05	83197
Aroclor-1242	ND		35	ug/Kg	1	10/06/2015 14:05	83197
Aroclor-1248	ND		35	ug/Kg	1	10/06/2015 14:05	83197
Aroclor-1254	ND		35	ug/Kg	1	10/06/2015 14:05	83197
Aroclor-1260	ND		35	ug/Kg	1	10/06/2015 14:05	83197
Surrogate: Tetrachloro-m-xylene	72.2		34-147	%REC	1	10/06/2015 14:05	83197
Surrogate: Decachlorobiphenyl	78.2		60-125	%REC	1	10/06/2015 14:05	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/06/2015 14:20	83197
Aroclor-1221	ND		35	ug/Kg	1	10/06/2015 14:20	83197
Aroclor-1232	ND		35	ug/Kg	1	10/06/2015 14:20	83197
Aroclor-1242	ND		35	ug/Kg	1	10/06/2015 14:20	83197
Aroclor-1248	ND		35	ug/Kg	1	10/06/2015 14:20	83197
Aroclor-1254	ND		35	ug/Kg	1	10/06/2015 14:20	83197
Aroclor-1260	ND		35	ug/Kg	1	10/06/2015 14:20	83197
Surrogate: Tetrachloro-m-xylene	58.8		34-147	%REC	1	10/06/2015 14:20	83197
Surrogate: Decachlorobiphenyl	63.0		60-125	%REC	1	10/06/2015 14:20	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		36	ug/Kg	1	10/06/2015 14:34	83197
Aroclor-1221	ND		36	ug/Kg	1	10/06/2015 14:34	83197
Aroclor-1232	ND		36	ug/Kg	1	10/06/2015 14:34	83197
Aroclor-1242	ND		36	ug/Kg	1	10/06/2015 14:34	83197
Aroclor-1248	ND		36	ug/Kg	1	10/06/2015 14:34	83197
Aroclor-1254	ND		36	ug/Kg	1	10/06/2015 14:34	83197
Aroclor-1260	ND		36	ug/Kg	1	10/06/2015 14:34	83197
Surrogate: Tetrachloro-m-xylene	59.8		34-147	%REC	1	10/06/2015 14:34	83197
Surrogate: Decachlorobiphenyl	64.7		60-125	%REC	1	10/06/2015 14:34	83197

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_S

SW846 8082A -- PCB by GC-ECD

Sample ID: **MB-83197** SampType: **MBLK** TestCode: **SW8082_S** Prep Date: **10/02/15 12:39** Run ID: **E2_151007A**
Client ID: **MB-83197** Batch ID: **83197** Units: **ug/Kg** Analysis Date **10/06/15 11:13** SeqNo: **2313890**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	2.5	33									
Aroclor-1221	ND	4.4	33									
Aroclor-1232	ND	2.4	33									
Aroclor-1242	ND	2.5	33									
Aroclor-1248	ND	3.8	33									
Aroclor-1254	ND	4.4	33									
Aroclor-1260	ND	1.8	33									

Sample ID: **MB-83197** SampType: **MBLK** TestCode: **SW8082_S** Prep Date: **10/02/15 12:39** Run ID: **E2_151007B**
Client ID: **MB-83197** Batch ID: **83197** Units: **ug/Kg** Analysis Date **10/06/15 11:13** SeqNo: **2313974**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	15.85		1.7	20.00	0	79.3	34	147	0			
Surrogate: Decachlorobiphenyl	32.96		3.3	40.00	0	82.4	60	125	0			

Sample ID: **LCS-83197** SampType: **LCS** TestCode: **SW8082_S** Prep Date: **10/02/15 12:39** Run ID: **E2_151007B**
Client ID: **LCS-83197** Batch ID: **83197** Units: **ug/Kg** Analysis Date **10/06/15 11:28** SeqNo: **2313975**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	124.1	2.5	33	133.3	0	93.1	40	140	0			
Aroclor-1260	124.7	1.8	33	133.3	0	93.5	60	130	0			
Surrogate: Tetrachloro-m-xylene	18.12		1.7	20.00	0	90.6	34	147	0			
Surrogate: Decachlorobiphenyl	36.34		3.3	40.00	0	90.9	60	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_S

SW846 8082A -- PCB by GC-ECD

Sample ID: **LCSD-83197** SampType: **LCSD** TestCode: **SW8082_S** Prep Date: **10/02/15 12:39** Run ID: **E2_151007B**

Client ID: **LCSD-83197** Batch ID: **83197** Units: **ug/Kg** Analysis Date **10/06/15 11:42** SeqNo: **2313976**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	121.3	2.5	33	133.3	0	91.0	40	140	124.1	2.3	30	
Aroclor-1260	123.6	1.8	33	133.3	0	92.7	60	130	124.7	0.879	30	
Surrogate: Tetrachloro-m-xylene	17.62		1.7	20.00	0	88.1	34	147	0			
Surrogate: Decachlorobiphenyl	35.97		3.3	40.00	0	89.9	60	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	22		7.6	mg/Kg	1	10/06/2015 12:18	83200
Surrogate: ortho-Terphenyl	56.4		50-150	%REC	1	10/06/2015 12:18	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	28		7.9	mg/Kg	1	10/06/2015 12:49	83200
Surrogate: ortho-Terphenyl	59.6		50-150	%REC	1	10/06/2015 12:49	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.8	mg/Kg	1	10/05/2015 22:47	83200
Surrogate: ortho-Terphenyl	68.2		50-150	%REC	1	10/05/2015 22:47	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	10		7.8	mg/Kg	1	10/06/2015 13:04	83200
Surrogate: ortho-Terphenyl	61.9		50-150	%REC	1	10/06/2015 13:04	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	9.9		7.8	mg/Kg	1	10/05/2015 23:32	83200
Surrogate: ortho-Terphenyl	62.2		50-150	%REC	1	10/05/2015 23:32	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.4	mg/Kg	1	10/05/2015 23:47	83200
Surrogate: ortho-Terphenyl	65.2		50-150	%REC	1	10/05/2015 23:47	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	33		7.9	mg/Kg	1	10/06/2015 0:17	83200
Surrogate: ortho-Terphenyl	61.5		50-150	%REC	1	10/06/2015 0:17	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.7	mg/Kg	1	10/06/2015 0:32	83200
Surrogate: ortho-Terphenyl	69.8		50-150	%REC	1	10/06/2015 0:32	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	15		8.0	mg/Kg	1	10/06/2015 0:47	83200
Surrogate: ortho-Terphenyl	65.8		50-150	%REC	1	10/06/2015 0:47	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	8.5		7.6	mg/Kg	1	10/06/2015 1:17	83200
Surrogate: ortho-Terphenyl	67.9		50-150	%REC	1	10/06/2015 1:17	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	26		7.3	mg/Kg	1	10/06/2015 1:32	83200
Surrogate: ortho-Terphenyl	60.1		50-150	%REC	1	10/06/2015 1:32	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	12		7.5	mg/Kg	1	10/06/2015 2:02	83200
Surrogate: ortho-Terphenyl	53.7		50-150	%REC	1	10/06/2015 2:02	83200

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

TPH_S

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID: **MB-83200** SampType: **MBLK** TestCode: **TPH_S** Prep Date: **10/02/15 14:24** Run ID: **F1_151005A**
Client ID: **MB-83200** Batch ID: **83200** Units: **mg/Kg** Analysis Date **10/05/15 21:01** SeqNo: **2313131**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	ND	1.3	7.0									
Surrogate: ortho-Terphenyl	3.176		0.83	3.333	0	95.3	50	150	0			

Sample ID: **LCS-83200** SampType: **LCS** TestCode: **TPH_S** Prep Date: **10/02/15 14:24** Run ID: **F1_151005A**
Client ID: **LCS-83200** Batch ID: **83200** Units: **mg/Kg** Analysis Date **10/05/15 21:31** SeqNo: **2313132**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	198.1	1.3	7.0	166.7	0	119	60	140	0			
Surrogate: ortho-Terphenyl	4.001		0.83	3.333	0	120	50	150	0			

Sample ID: **LCSD-83200** SampType: **LCSD** TestCode: **TPH_S** Prep Date: **10/02/15 14:24** Run ID: **F1_151005A**
Client ID: **LCSD-83200** Batch ID: **83200** Units: **mg/Kg** Analysis Date **10/05/15 21:47** SeqNo: **2313133**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	201.9	1.3	7.0	166.7	0	121	60	140	198.1	1.9	20	
Surrogate: ortho-Terphenyl	4.311		0.83	3.333	0	129	50	150	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.59	J	0.93	mg/Kg	1	10/04/2015 12:35	83183
Arsenic	6.6		0.93	mg/Kg	1	10/04/2015 12:35	83183
Barium	14	B	9.3	mg/Kg	1	10/04/2015 12:35	83183
Beryllium	0.28	B	0.23	mg/Kg	1	10/04/2015 12:35	83183
Cadmium	0.054	J	0.23	mg/Kg	1	10/04/2015 12:35	83183
Chromium	4.7	B	0.93	mg/Kg	1	10/04/2015 12:35	83183
Copper	8.7		1.4	mg/Kg	1	10/04/2015 12:35	83183
Lead	24		0.47	mg/Kg	1	10/04/2015 12:35	83183
Manganese	130		2.3	mg/Kg	1	10/04/2015 12:35	83183
Nickel	4.2		2.3	mg/Kg	1	10/04/2015 12:35	83183
Selenium	ND		1.4	mg/Kg	1	10/04/2015 12:35	83183
Silver	ND		1.4	mg/Kg	1	10/04/2015 12:35	83183
Thallium	0.85	J	0.93	mg/Kg	1	10/04/2015 12:35	83183
Vanadium	8.6		2.3	mg/Kg	1	10/04/2015 12:35	83183
Zinc	22		2.3	mg/Kg	1	10/04/2015 12:35	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.098		0.043	mg/Kg	1	10/05/2015 19:04	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.4		0.95	mg/Kg	1	10/04/2015 12:39	83183
Arsenic	7.5		0.95	mg/Kg	1	10/04/2015 12:39	83183
Barium	38	B	9.5	mg/Kg	1	10/04/2015 12:39	83183
Beryllium	0.27	B	0.24	mg/Kg	1	10/04/2015 12:39	83183
Cadmium	ND		0.24	mg/Kg	1	10/04/2015 12:39	83183
Chromium	8.7	B	0.95	mg/Kg	1	10/04/2015 12:39	83183
Copper	16		1.4	mg/Kg	1	10/04/2015 12:39	83183
Lead	11		0.48	mg/Kg	1	10/04/2015 12:39	83183
Manganese	150		2.4	mg/Kg	1	10/04/2015 12:39	83183
Nickel	8.2		2.4	mg/Kg	1	10/04/2015 12:39	83183
Selenium	0.62	J	1.4	mg/Kg	1	10/04/2015 12:39	83183
Silver	ND		1.4	mg/Kg	1	10/04/2015 12:39	83183
Thallium	1.4		0.95	mg/Kg	1	10/04/2015 12:39	83183
Vanadium	8.6		2.4	mg/Kg	1	10/04/2015 12:39	83183
Zinc	25		2.4	mg/Kg	1	10/04/2015 12:39	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0033	J	0.040	mg/Kg	1	10/05/2015 19:06	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.57	J	0.90	mg/Kg	1	10/04/2015 12:43	83183
Arsenic	7.4		0.90	mg/Kg	1	10/04/2015 12:43	83183
Barium	16	B	9.0	mg/Kg	1	10/04/2015 12:43	83183
Beryllium	0.36	B	0.22	mg/Kg	1	10/04/2015 12:43	83183
Cadmium	0.064	J	0.22	mg/Kg	1	10/04/2015 12:43	83183
Chromium	5.7	B	0.90	mg/Kg	1	10/04/2015 12:43	83183
Copper	13		1.3	mg/Kg	1	10/04/2015 12:43	83183
Lead	25		0.45	mg/Kg	1	10/04/2015 12:43	83183
Manganese	160		2.2	mg/Kg	1	10/04/2015 12:43	83183
Nickel	4.7		2.2	mg/Kg	1	10/04/2015 12:43	83183
Selenium	ND		1.3	mg/Kg	1	10/04/2015 12:43	83183
Silver	ND		1.3	mg/Kg	1	10/04/2015 12:43	83183
Thallium	1.1		0.90	mg/Kg	1	10/04/2015 12:43	83183
Vanadium	11		2.2	mg/Kg	1	10/04/2015 12:43	83183
Zinc	32		2.2	mg/Kg	1	10/04/2015 12:43	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.071		0.040	mg/Kg	1	10/05/2015 19:07	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012 **Project:** Barrington, RI site
Lab ID: P1453-04 **Collection Date:** 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.2		1.0	mg/Kg	1	10/04/2015 12:47	83183
Arsenic	9.5		1.0	mg/Kg	1	10/04/2015 12:47	83183
Barium	16	B	10	mg/Kg	1	10/04/2015 12:47	83183
Beryllium	0.33	B	0.26	mg/Kg	1	10/04/2015 12:47	83183
Cadmium	ND		0.26	mg/Kg	1	10/04/2015 12:47	83183
Chromium	9.7	B	1.0	mg/Kg	1	10/04/2015 12:47	83183
Copper	30		1.6	mg/Kg	1	10/04/2015 12:47	83183
Lead	30		0.52	mg/Kg	1	10/04/2015 12:47	83183
Manganese	500		2.6	mg/Kg	1	10/04/2015 12:47	83183
Nickel	19		2.6	mg/Kg	1	10/04/2015 12:47	83183
Selenium	ND		1.6	mg/Kg	1	10/04/2015 12:47	83183
Silver	ND		1.6	mg/Kg	1	10/04/2015 12:47	83183
Thallium	0.91	J	1.0	mg/Kg	1	10/04/2015 12:47	83183
Vanadium	9.3		2.6	mg/Kg	1	10/04/2015 12:47	83183
Zinc	51		2.6	mg/Kg	1	10/04/2015 12:47	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.041	mg/Kg	1	10/05/2015 19:09	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.77		0.75	mg/Kg	1	10/04/2015 12:50	83183
Arsenic	9.4		0.75	mg/Kg	1	10/04/2015 12:50	83183
Barium	20	B	7.5	mg/Kg	1	10/04/2015 12:50	83183
Beryllium	0.44	B	0.19	mg/Kg	1	10/04/2015 12:50	83183
Cadmium	0.077	J	0.19	mg/Kg	1	10/04/2015 12:50	83183
Chromium	6.3	B	0.75	mg/Kg	1	10/04/2015 12:50	83183
Copper	11		1.1	mg/Kg	1	10/04/2015 12:50	83183
Lead	35		0.38	mg/Kg	1	10/04/2015 12:50	83183
Manganese	100		1.9	mg/Kg	1	10/04/2015 12:50	83183
Nickel	4.3		1.9	mg/Kg	1	10/04/2015 12:50	83183
Selenium	ND		1.1	mg/Kg	1	10/04/2015 12:50	83183
Silver	ND		1.1	mg/Kg	1	10/04/2015 12:50	83183
Thallium	1.2		0.75	mg/Kg	1	10/04/2015 12:50	83183
Vanadium	14		1.9	mg/Kg	1	10/04/2015 12:50	83183
Zinc	24		1.9	mg/Kg	1	10/04/2015 12:50	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.14		0.042	mg/Kg	1	10/05/2015 19:11	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.6		0.94	mg/Kg	1	10/04/2015 12:54	83183
Arsenic	11		0.94	mg/Kg	1	10/04/2015 12:54	83183
Barium	25	B	9.4	mg/Kg	1	10/04/2015 12:54	83183
Beryllium	0.41	B	0.24	mg/Kg	1	10/04/2015 12:54	83183
Cadmium	0.14	J	0.24	mg/Kg	1	10/04/2015 12:54	83183
Chromium	17	B	0.94	mg/Kg	1	10/04/2015 12:54	83183
Copper	51		1.4	mg/Kg	1	10/04/2015 12:54	83183
Lead	20		0.47	mg/Kg	1	10/04/2015 12:54	83183
Manganese	2500		47	mg/Kg	20	10/07/2015 8:38	83183
Nickel	27		2.4	mg/Kg	1	10/04/2015 12:54	83183
Selenium	1.2	J	1.4	mg/Kg	1	10/04/2015 12:54	83183
Silver	ND		1.4	mg/Kg	1	10/04/2015 12:54	83183
Thallium	ND		0.94	mg/Kg	1	10/04/2015 12:54	83183
Vanadium	11		2.4	mg/Kg	1	10/04/2015 12:54	83183
Zinc	63		2.4	mg/Kg	1	10/04/2015 12:54	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.039	mg/Kg	1	10/05/2015 19:12	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.59	J	0.92	mg/Kg	1	10/04/2015 12:58	83183
Arsenic	6.8		0.92	mg/Kg	1	10/04/2015 12:58	83183
Barium	45	B	9.2	mg/Kg	1	10/04/2015 12:58	83183
Beryllium	0.41	B	0.23	mg/Kg	1	10/04/2015 12:58	83183
Cadmium	0.11	J	0.23	mg/Kg	1	10/04/2015 12:58	83183
Chromium	9.0	B	0.92	mg/Kg	1	10/04/2015 12:58	83183
Copper	11		1.4	mg/Kg	1	10/04/2015 12:58	83183
Lead	86		0.46	mg/Kg	1	10/04/2015 12:58	83183
Manganese	100		2.3	mg/Kg	1	10/04/2015 12:58	83183
Nickel	3.7		2.3	mg/Kg	1	10/04/2015 12:58	83183
Selenium	ND		1.4	mg/Kg	1	10/04/2015 12:58	83183
Silver	ND		1.4	mg/Kg	1	10/04/2015 12:58	83183
Thallium	0.84	J	0.92	mg/Kg	1	10/04/2015 12:58	83183
Vanadium	12		2.3	mg/Kg	1	10/04/2015 12:58	83183
Zinc	39		2.3	mg/Kg	1	10/04/2015 12:58	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.082		0.040	mg/Kg	1	10/05/2015 19:14	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.3		0.90	mg/Kg	1	10/04/2015 13:09	83183
Arsenic	9.0		0.90	mg/Kg	1	10/04/2015 13:09	83183
Barium	17	B	9.0	mg/Kg	1	10/04/2015 13:09	83183
Beryllium	0.34	B	0.23	mg/Kg	1	10/04/2015 13:09	83183
Cadmium	0.029	J	0.23	mg/Kg	1	10/04/2015 13:09	83183
Chromium	9.8	B	0.90	mg/Kg	1	10/04/2015 13:09	83183
Copper	25		1.4	mg/Kg	1	10/04/2015 13:09	83183
Lead	10		0.45	mg/Kg	1	10/04/2015 13:09	83183
Manganese	310		2.3	mg/Kg	1	10/04/2015 13:09	83183
Nickel	16		2.3	mg/Kg	1	10/04/2015 13:09	83183
Selenium	ND		1.4	mg/Kg	1	10/04/2015 13:09	83183
Silver	ND		1.4	mg/Kg	1	10/04/2015 13:09	83183
Thallium	1.1		0.90	mg/Kg	1	10/04/2015 13:09	83183
Vanadium	9.1		2.3	mg/Kg	1	10/04/2015 13:09	83183
Zinc	42		2.3	mg/Kg	1	10/04/2015 13:09	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.038	mg/Kg	1	10/05/2015 19:16	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.82	J	0.90	mg/Kg	1	10/04/2015 13:13	83183
Arsenic	12		0.90	mg/Kg	1	10/04/2015 13:13	83183
Barium	43	B	9.0	mg/Kg	1	10/04/2015 13:13	83183
Beryllium	0.52	B	0.22	mg/Kg	1	10/04/2015 13:13	83183
Cadmium	0.70		0.22	mg/Kg	1	10/04/2015 13:13	83183
Chromium	7.5	B	0.90	mg/Kg	1	10/04/2015 13:13	83183
Copper	15		1.3	mg/Kg	1	10/04/2015 13:13	83183
Lead	92		0.45	mg/Kg	1	10/04/2015 13:13	83183
Manganese	160		2.2	mg/Kg	1	10/04/2015 13:13	83183
Nickel	5.8		2.2	mg/Kg	1	10/04/2015 13:13	83183
Selenium	0.64	J	1.3	mg/Kg	1	10/04/2015 13:13	83183
Silver	ND		1.3	mg/Kg	1	10/04/2015 13:13	83183
Thallium	1.6		0.90	mg/Kg	1	10/04/2015 13:13	83183
Vanadium	15		2.2	mg/Kg	1	10/04/2015 13:13	83183
Zinc	160		2.2	mg/Kg	1	10/04/2015 13:13	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.092		0.041	mg/Kg	1	10/05/2015 19:21	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507 **Project:** Barrington, RI site
Lab ID: P1453-10 **Collection Date:** 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.76	J	0.98	mg/Kg	1	10/04/2015 13:17	83183
Arsenic	5.9		0.98	mg/Kg	1	10/04/2015 13:17	83183
Barium	14	B	9.8	mg/Kg	1	10/04/2015 13:17	83183
Beryllium	0.33	B	0.24	mg/Kg	1	10/04/2015 13:17	83183
Cadmium	0.079	J	0.24	mg/Kg	1	10/04/2015 13:17	83183
Chromium	5.6	B	0.98	mg/Kg	1	10/04/2015 13:17	83183
Copper	8.3		1.5	mg/Kg	1	10/04/2015 13:17	83183
Lead	6.6		0.49	mg/Kg	1	10/04/2015 13:17	83183
Manganese	300		2.4	mg/Kg	1	10/04/2015 13:17	83183
Nickel	8.5		2.4	mg/Kg	1	10/04/2015 13:17	83183
Selenium	ND		1.5	mg/Kg	1	10/04/2015 13:17	83183
Silver	ND		1.5	mg/Kg	1	10/04/2015 13:17	83183
Thallium	0.73	J	0.98	mg/Kg	1	10/04/2015 13:17	83183
Vanadium	8.4		2.4	mg/Kg	1	10/04/2015 13:17	83183
Zinc	62		2.4	mg/Kg	1	10/04/2015 13:17	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0063	J	0.037	mg/Kg	1	10/05/2015 19:22	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.94	J	0.99	mg/Kg	1	10/04/2015 13:21	83183
Arsenic	9.4		0.99	mg/Kg	1	10/04/2015 13:21	83183
Barium	28	B	9.9	mg/Kg	1	10/04/2015 13:21	83183
Beryllium	0.53	B	0.25	mg/Kg	1	10/04/2015 13:21	83183
Cadmium	0.12	J	0.25	mg/Kg	1	10/04/2015 13:21	83183
Chromium	7.4	B	0.99	mg/Kg	1	10/04/2015 13:21	83183
Copper	12		1.5	mg/Kg	1	10/04/2015 13:21	83183
Lead	36		0.49	mg/Kg	1	10/04/2015 13:21	83183
Manganese	180		2.5	mg/Kg	1	10/04/2015 13:21	83183
Nickel	5.1		2.5	mg/Kg	1	10/04/2015 13:21	83183
Selenium	ND		1.5	mg/Kg	1	10/04/2015 13:21	83183
Silver	ND		1.5	mg/Kg	1	10/04/2015 13:21	83183
Thallium	1.6		0.99	mg/Kg	1	10/04/2015 13:21	83183
Vanadium	15		2.5	mg/Kg	1	10/04/2015 13:21	83183
Zinc	28		2.5	mg/Kg	1	10/04/2015 13:21	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.056		0.042	mg/Kg	1	10/05/2015 19:24	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012 **Project:** Barrington, RI site
Lab ID: P1453-12 **Collection Date:** 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.87	J	0.91	mg/Kg	1	10/04/2015 13:25	83183
Arsenic	7.0		0.91	mg/Kg	1	10/04/2015 13:25	83183
Barium	26	B	9.1	mg/Kg	1	10/04/2015 13:25	83183
Beryllium	0.42	B	0.23	mg/Kg	1	10/04/2015 13:25	83183
Cadmium	0.031	J	0.23	mg/Kg	1	10/04/2015 13:25	83183
Chromium	14	B	0.91	mg/Kg	1	10/04/2015 13:25	83183
Copper	13		1.4	mg/Kg	1	10/04/2015 13:25	83183
Lead	13		0.46	mg/Kg	1	10/04/2015 13:25	83183
Manganese	310		2.3	mg/Kg	1	10/04/2015 13:25	83183
Nickel	9.8		2.3	mg/Kg	1	10/04/2015 13:25	83183
Selenium	ND		1.4	mg/Kg	1	10/04/2015 13:25	83183
Silver	ND		1.4	mg/Kg	1	10/04/2015 13:25	83183
Thallium	1.3		0.91	mg/Kg	1	10/04/2015 13:25	83183
Vanadium	11		2.3	mg/Kg	1	10/04/2015 13:25	83183
Zinc	28		2.3	mg/Kg	1	10/04/2015 13:25	83183
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.013	J	0.041	mg/Kg	1	10/05/2015 19:26	83215

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **MB-83183** SampType: **MBLK** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **MB-83183** Batch ID: **83183** Units: **mg/Kg** Analysis Date **10/04/15 12:28** SeqNo: **2312345**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.38	1.0									
Arsenic	ND	0.41	1.0									
Barium	0.03811	0.031	10									J
Beryllium	0.004711	0.0015	0.25									J
Cadmium	ND	0.015	0.25									
Chromium	0.06117	0.019	1.0									J
Copper	ND	0.11	1.5									
Lead	ND	0.17	0.50									
Manganese	ND	0.13	2.5									
Nickel	ND	0.043	2.5									
Selenium	ND	0.64	1.5									
Silver	ND	0.064	1.5									
Thallium	ND	0.22	1.0									
Vanadium	ND	0.060	2.5									
Zinc	ND	0.18	2.5									

Sample ID: **LCS-83183** SampType: **LCS** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **LCS-83183** Batch ID: **83183** Units: **mg/Kg** Analysis Date **10/04/15 12:32** SeqNo: **2312346**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	21.85	0.38	1.0	25.00	0	87.4	80	120	0			
Arsenic	22.40	0.41	1.0	25.00	0	89.6	80	120	0			
Barium	424.3	0.031	10	500.0	0	84.9	80	120	0			B
Beryllium	10.17	0.0015	0.25	12.50	0	81.3	80	120	0			B
Cadmium	11.07	0.015	0.25	12.50	0	88.6	80	120	0			
Chromium	41.29	0.019	1.0	50.00	0	82.6	80	120	0			B
Copper	50.75	0.11	1.5	62.50	0	81.2	80	120	0			
Lead	22.42	0.17	0.50	25.00	0	89.7	80	120	0			
Manganese	104.1	0.13	2.5	125.0	0	83.3	80	120	0			
Nickel	101.9	0.043	2.5	125.0	0	81.5	80	120	0			
Selenium	21.67	0.64	1.5	25.00	0	86.7	80	120	0			
Silver	53.48	0.064	1.5	62.50	0	85.6	75	120	0			
Thallium	23.17	0.22	1.0	25.00	0	92.7	80	120	0			
Vanadium	103.4	0.060	2.5	125.0	0	82.8	80	120	0			
Zinc	102.9	0.18	2.5	125.0	0	82.3	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S
SW846 6010C -- Metals by ICP

Sample ID: **P1453-12ADUP** SampType: **DUP** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **NOB-118-1012** Batch ID: **83183** Units: **mg/Kg** Analysis Date **10/04/15 13:28** SeqNo: **2312361**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.7975	0.36	0.94	0	0	0	0	0	0.8721	8.94	20	J
Arsenic	6.620	0.38	0.94	0	0	0	0	0	6.987	5.39	20	
Barium	23.85	0.029	9.4	0	0	0	0	0	25.90	8.27	20	B
Beryllium	0.3842	0.0014	0.23	0	0	0	0	0	0.4227	9.55	20	B
Cadmium	0.01831	0.014	0.23	0	0	0	0	0	0.03056	50.1	20	JR
Chromium	13.49	0.018	0.94	0	0	0	0	0	13.72	1.71	20	B
Copper	11.96	0.10	1.4	0	0	0	0	0	12.70	5.99	20	
Lead	12.25	0.16	0.47	0	0	0	0	0	12.85	4.74	20	
Manganese	291.7	0.12	2.3	0	0	0	0	0	308.8	5.7	20	
Nickel	9.338	0.040	2.3	0	0	0	0	0	9.779	4.61	20	
Selenium	ND	0.60	1.4	0	0	0	0	0	0	0	20	
Silver	ND	0.060	1.4	0	0	0	0	0	0	0	20	
Thallium	1.140	0.21	0.94	0	0	0	0	0	1.349	16.7	20	
Vanadium	9.570	0.056	2.3	0	0	0	0	0	10.75	11.6	20	
Zinc	25.41	0.17	2.3	0	0	0	0	0	28.37	11	20	

Sample ID: **P1453-12AMS** SampType: **MS** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **NOB-118-1012** Batch ID: **83183** Units: **mg/Kg** Analysis Date **10/04/15 13:32** SeqNo: **2312362**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	15.74	0.34	0.88	22.07	0.8721	67.3	80	120	0			S
Arsenic	29.16	0.36	0.88	22.07	6.987	100	80	120	0			
Barium	439.3	0.027	8.8	441.5	25.90	93.6	80	120	0			B
Beryllium	10.43	0.0013	0.22	11.04	0.4227	90.6	80	120	0			B
Cadmium	10.89	0.013	0.22	11.04	0.03056	98.4	80	120	0			
Chromium	52.58	0.017	0.88	44.15	13.72	88.0	80	120	0			B
Copper	65.34	0.097	1.3	55.18	12.70	95.4	80	120	0			
Lead	34.90	0.15	0.44	22.07	12.85	99.9	80	120	0			
Nickel	108.8	0.038	2.2	110.4	9.779	89.7	80	120	0			
Selenium	21.51	0.57	1.3	22.07	0	97.5	80	120	0			
Silver	54.65	0.057	1.3	55.18	0	99.0	75	120	0			
Thallium	23.87	0.19	0.88	22.07	1.349	102	80	120	0			
Vanadium	111.6	0.053	2.2	110.4	10.75	91.4	80	120	0			
Zinc	128.2	0.16	2.2	110.4	28.37	90.4	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **P1453-12ASD** SampType: **SD** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **NOB-118-1012** Batch ID: **83183** Units: **mg/Kg** Analysis Date: **10/04/15 13:36** SeqNo: **2312363**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	1.7	4.6	0	0	0	0	0	0.8721	0	10	
Arsenic	7.217	1.9	4.6	0	0	0	0	0	6.987	3.24	10	
Barium	28.65	0.14	46	0	0	0	0	0	25.90	10.1	10	BJR
Beryllium	0.5154	0.0068	1.1	0	0	0	0	0	0.4227	19.7	10	BJR
Cadmium	ND	0.068	1.1	0	0	0	0	0	0.03056	0	10	
Chromium	14.07	0.087	4.6	0	0	0	0	0	13.72	2.47	10	B
Copper	12.11	0.50	6.8	0	0	0	0	0	12.70	4.8	10	
Lead	13.84	0.78	2.3	0	0	0	0	0	12.85	7.42	10	
Manganese	317.1	0.59	11	0	0	0	0	0	308.8	2.66	10	
Nickel	10.58	0.20	11	0	0	0	0	0	9.779	7.89	10	J
Selenium	ND	2.9	6.8	0	0	0	0	0	0	0	10	
Silver	ND	0.29	6.8	0	0	0	0	0	0	0	10	
Thallium	ND	1.0	4.6	0	0	0	0	0	1.349	0	10	
Vanadium	10.94	0.27	11	0	0	0	0	0	10.75	1.78	10	J
Zinc	29.62	0.82	11	0	0	0	0	0	28.37	4.32	10	

Sample ID: **P1453-12APDS** SampType: **PDS** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **NOB-118-1012** Batch ID: **83183** Units: **mg/Kg** Analysis Date: **10/04/15 13:39** SeqNo: **2312364**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	24.43	0.35	0.91	22.82	0.8721	103	75	125	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7471

SW846 7471B -- Mercury by FIA

Sample ID: **MB-83215** SampType: **MBLK** TestCode: **SW7471** Prep Date: **10/05/15 13:58** Run ID: **FIMS2_151005A**
Client ID: **MB-83215** Batch ID: **83215** Units: **mg/Kg** Analysis Date **10/05/15 19:01** SeqNo: **2312774**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0021	0.033									

Sample ID: **LCS-83215** SampType: **LCS** TestCode: **SW7471** Prep Date: **10/05/15 13:58** Run ID: **FIMS2_151005A**
Client ID: **LCS-83215** Batch ID: **83215** Units: **mg/Kg** Analysis Date **10/05/15 19:02** SeqNo: **2312775**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.7830	0.0021	0.033	0.7580	0	103	80	120	0			

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-00002 **Project:** Barrington, RI site
Lab ID: P1453-01 **Collection Date:** 09/29/15 13:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/01/2015 14:10	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-101-0810 **Project:** Barrington, RI site
Lab ID: P1453-02 **Collection Date:** 09/29/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.5	mg/Kg	1	10/01/2015 14:13	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-0002 **Project:** Barrington, RI site
Lab ID: P1453-03 **Collection Date:** 09/29/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.5	mg/Kg	1	10/01/2015 14:16	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-115-1012
Lab ID: P1453-04
Project: Barrington, RI site
Collection Date: 09/29/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.5	mg/Kg	1	10/01/2015 14:20	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0002 **Project:** Barrington, RI site
Lab ID: P1453-05 **Collection Date:** 09/29/15 15:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/01/2015 14:23	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-114-0810 **Project:** Barrington, RI site
Lab ID: P1453-06 **Collection Date:** 09/29/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.2	mg/Kg	1	10/01/2015 14:26	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-0002 **Project:** Barrington, RI site
Lab ID: P1453-07 **Collection Date:** 09/29/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.5	mg/Kg	1	10/01/2015 14:30	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-116-1113 **Project:** Barrington, RI site
Lab ID: P1453-08 **Collection Date:** 09/29/15 15:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/01/2015 14:33	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0002 **Project:** Barrington, RI site
Lab ID: P1453-09 **Collection Date:** 09/29/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.6	mg/Kg	1	10/01/2015 14:36	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-117-0507
Lab ID: P1453-10
Project: Barrington, RI site
Collection Date: 09/29/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/01/2015 14:40	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-0002 **Project:** Barrington, RI site
Lab ID: P1453-11 **Collection Date:** 09/29/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.2	mg/Kg	1	10/01/2015 14:43	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/07/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-118-1012
Lab ID: P1453-12
Project: Barrington, RI site
Collection Date: 09/29/15 16:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/01/2015 14:46	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

P1453

CLIENT: Nobis Engineering, Inc
Work Order: P1453
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7196_S

SW846 7196A -- CR+ by Colorimetric Method

Sample ID: **MB-83168** SampType: **MBLK** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **MB-83168** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 14:00** SeqNo: **2313801**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	4.0	4.0									

Sample ID: **LCS-83168** SampType: **LCS** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **LCS-83168** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 14:03** SeqNo: **2313803**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	19.82	4.0	4.0	20.00	0	99.1	80	120	0			

Sample ID: **LCSi-83168** SampType: **LCSi** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **LCSi-83168** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 14:06** SeqNo: **2313806**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	301.4	40	40	322.0	0	93.6	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

eurofins | Spectrum Analytical

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Report Date:
12-Oct-15 12:43

Laboratory Report

Eurofins Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Edward Lawler

Project: Barrington, RI Site
Project #: P1453

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC13136-01	NOB-101-00002	Soil	29-Sep-15 13:50	02-Oct-15 18:20
SC13136-02	NOB-101-0810	Soil	29-Sep-15 14:10	02-Oct-15 18:20
SC13136-03	NOB-115-0002	Soil	29-Sep-15 14:25	02-Oct-15 18:20
SC13136-04	NOB-115-1012	Soil	29-Sep-15 14:40	02-Oct-15 18:20
SC13136-05	NOB-114-0002	Soil	29-Sep-15 15:00	02-Oct-15 18:20
SC13136-06	NOB-114-0810	Soil	29-Sep-15 15:05	02-Oct-15 18:20
SC13136-07	NOB-116-0002	Soil	29-Sep-15 15:30	02-Oct-15 18:20
SC13136-08	NOB-116-1113	Soil	29-Sep-15 15:40	02-Oct-15 18:20
SC13136-09	NOB-117-0002	Soil	29-Sep-15 16:00	02-Oct-15 18:20
SC13136-10	NOB-117-0507	Soil	29-Sep-15 16:10	02-Oct-15 18:20
SC13136-11	NOB-118-0002	Soil	29-Sep-15 16:30	02-Oct-15 18:20
SC13136-12	NOB-118-1012	Soil	29-Sep-15 16:40	02-Oct-15 18:20

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

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

NELAP ACCREDITED TNI LABORATORY

Authorized by:

June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 10 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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

CASE NARRATIVE:

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

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

The samples were received 0.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	Eurofins Spectrum Analytical, Inc. - RI
Project:	Barrington, RI Site / P1453
Work Order:	SC13136
Sample(s) received on:	10/2/2015

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

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: **Client ID:**

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method

No hits detected.

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-101-00002 SC13136-01	P1453	Soil	29-Sep-15 13:50	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	91.6		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518778	
57-12-5	Cyanide (total)	< 0.474	U	mg/kg dry	0.474	0.420	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-101-0810 SC13136-02	P1453	Soil	29-Sep-15 14:10	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	86.6		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518778	
57-12-5	Cyanide (total)	< 0.471	U	mg/kg dry	0.471	0.417	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-115-0002 SC13136-03	P1453	Soil	29-Sep-15 14:25	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	88.9		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518778	
57-12-5	Cyanide (total)	< 0.559	U	mg/kg dry	0.559	0.495	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-115-1012 SC13136-04	P1453	Soil	29-Sep-15 14:40	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	88.6		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518778	
57-12-5	Cyanide (total)	< 0.432	U	mg/kg dry	0.432	0.382	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-114-0002 SC13136-05	P1453	Soil	29-Sep-15 15:00	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	89.8		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518778	
57-12-5	Cyanide (total)	< 0.498	U	mg/kg dry	0.498	0.440	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification
NOB-114-0810
SC13136-06

Client Project #	Matrix	Collection Date/Time	Received
P1453	Soil	29-Sep-15 15:05	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	94.9		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518778	
57-12-5	Cyanide (total)	< 0.504	U	mg/kg dry	0.504	0.446	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification
NOB-116-0002
SC13136-07

Client Project #	Matrix	Collection Date/Time	Received
P1453	Soil	29-Sep-15 15:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	89.9		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.537	U	mg/kg dry	0.537	0.475	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification
NOB-116-1113
SC13136-08

Client Project #	Matrix	Collection Date/Time	Received
P1453	Soil	29-Sep-15 15:40	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	89.9		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.533	U	mg/kg dry	0.533	0.472	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification
NOB-117-0002
SC13136-09

Client Project #	Matrix	Collection Date/Time	Received
P1453	Soil	29-Sep-15 16:00	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	84.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.555	U	mg/kg dry	0.555	0.491	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification
NOB-117-0507
SC13136-10

Client Project #	Matrix	Collection Date/Time	Received
P1453	Soil	29-Sep-15 16:10	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	91.7		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.524	U	mg/kg dry	0.524	0.463	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-118-0002 SC13136-11	P1453	Soil	29-Sep-15 16:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	94.2		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.479	U	mg/kg dry	0.479	0.424	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-118-1012 SC13136-12	P1453	Soil	29-Sep-15 16:40	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	94.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.513	U	mg/kg dry	0.513	0.454	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1518779 - General Preparation										
Duplicate (1518779-DUP1)			**Source: SC13136-07**		Prepared & Analyzed: 05-Oct-15					
% Solids	**89.4**		%			89.9			0.6	5
Batch 1519237 - General Preparation										
Blank (1519237-BLK1)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
Blank (1519237-BLK2)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
LCS (1519237-BS1)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**18.7**		mg/kg wet	0.500	20.0		94	90-110		
LCS (1519237-BS2)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**19.2**		mg/kg wet	0.500	20.0		96	90-110		
Calibration Blank (1519237-CCB1)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519237-CCB2)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519237-CCB3)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519237-CCB4)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519237-CCB5)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Check (1519237-CCV1)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**30.4**		mg/kg wet	0.500	30.0		101	90-110		
Calibration Check (1519237-CCV2)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**30.6**		mg/kg wet	0.500	30.0		102	90-110		
Calibration Check (1519237-CCV3)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**30.8**		mg/kg wet	0.500	30.0		103	90-110		
Calibration Check (1519237-CCV4)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**30.0**		mg/kg wet	0.500	30.0		100	90-110		
Calibration Check (1519237-CCV5)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**30.7**		mg/kg wet	0.500	30.0		102	90-110		
Duplicate (1519237-DUP1)			**Source: SC13136-07**		Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	< 0.527	U	mg/kg dry	0.527		BRL				35
Matrix Spike (1519237-MS1)			**Source: SC13136-07**		Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**9.66**		mg/kg dry	0.539	10.8	BRL	90	90-110		
Matrix Spike Dup (1519237-MSD1)			**Source: SC13136-07**		Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**9.84**		mg/kg dry	0.530	10.6	BRL	93	90-110	2	35
Reference (1519237-SRM1)					Prepared & Analyzed: 09-Oct-15					
Cyanide (total)	**79.9**		mg/kg wet	0.878	117		68	36.75-135		
Batch 1519288 - General Preparation										
Blank (1519288-BLK1)					Prepared & Analyzed: 10-Oct-15					
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
Blank (1519288-BLK2)					Prepared & Analyzed: 10-Oct-15					
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
LCS (1519288-BS1)					Prepared & Analyzed: 10-Oct-15					
Cyanide (total)	**17.9**		mg/kg wet	0.500	20.0		90	90-110		
LCS (1519288-BS2)					Prepared & Analyzed: 10-Oct-15					
Cyanide (total)	**19.7**		mg/kg wet	0.500	20.0		98	90-110		
Calibration Blank (1519288-CCB1)					Prepared & Analyzed: 10-Oct-15					
Cyanide (total)	**0.00**	U	mg/kg wet							

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1519288 - General Preparation										
Calibration Blank (1519288-CCB2)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519288-CCB3)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519288-CCB4)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519288-CCB5)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Check (1519288-CCV1)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**32.9**		mg/kg wet	0.500	30.0		110	90-110		
Calibration Check (1519288-CCV2)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**31.4**		mg/kg wet	0.500	30.0		105	90-110		
Calibration Check (1519288-CCV3)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**32.1**		mg/kg wet	0.500	30.0		107	90-110		
Calibration Check (1519288-CCV4)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**30.9**		mg/kg wet	0.500	30.0		103	90-110		
Calibration Check (1519288-CCV5)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**31.9**		mg/kg wet	0.500	30.0		106	90-110		
Reference (1519288-SRM1)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**93.6**		mg/kg wet	1.74	117		80	36.75-135		

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

Validated by:
June O'Connor
Kimberly LaPlante

SC 13136e

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1453
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/12/2015
FAX Due Date : 10/7/2015
Report To : Edward A Lawler
Purchase Order : P1453
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_S										
NOB-101-00002	09/29/2015 13:50	1	Soil		P1453-01B	X										13136-01
NOB-101-0810	09/29/2015 14:10	1	Soil		P1453-02B	X										-02
NOB-115-0002	09/29/2015 14:25	1	Soil		P1453-03B	X										-03
NOB-115-1012	09/29/2015 14:40	1	Soil		P1453-04B	X										-04
NOB-114-0002	09/29/2015 15:00	1	Soil		P1453-05B	X										-05
NOB-114-0810	09/29/2015 15:05	1	Soil		P1453-06B	X										-06

1) SW9012_S, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1 | -1 | 0.1 | 0.1
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/02/15 11:10	**Received by:**	[illegible]	10/2/15 12:40
Relinquished by:	[illegible]	10/2/15 13:05	**Received by:**	[illegible]	10/2/15 18:20

[X] REFRIG.

10/02/2015
Page 1 of 2

CHAIN-OF-CUSTODY RECORD

SC13136

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1453
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/12/2015
FAX Due Date : 10/7/2015
Report To : Edward A Lawler
Purchase Order : P1453
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_S										
NOB-116-0002	09/29/2015 15:30	1	Soil		P1453-07B	X										13136-07
NOB-116-1113	09/29/2015 15:40	1	Soil		P1453-08B	X										-08
NOB-117-0002	09/29/2015 16:00	1	Soil		P1453-09B	X										-09
NOB-117-0507	09/29/2015 16:10	1	Soil		P1453-10B	X										-10
NOB-118-0002	09/29/2015 16:30	1	Soil		P1453-11B	X										-11
NOB-118-1012	09/29/2015 16:40	1	Soil		P1453-12B	X										-12

1) SW9012_S, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1-1|0.1|01
10/2/15

		Date/Time			Date/Time
Relinquished by:	[signature]		**Received by:**	[signature]	10/2/15 12:40
Relinquished by:	[signature]	10/2/15 13:05	**Received by:**	[signature]	10/2/15 18:20

10/02/2015
Page 2 of 2

[X] REFRIG.

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1453

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1453-01A	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	PMoist	/					B2
P1453-01A	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-01A	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW7471	/					B2
P1453-01A	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW8081_S	/					B2
P1453-01A	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW8082_S	/					B2
P1453-01A	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-01A	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-01B	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW7196_S	/					B2
P1453-01B	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-01C	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-01D	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	GRO_S	/					VOA
P1453-01D	NOB-101-00002	09/29/2015 13:50	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-02A	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	PMoist	/					B2
P1453-02A	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-02A	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW7471	/					B2
P1453-02A	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW8081_S	/					B2
P1453-02A	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW8082_S	/					B2
P1453-02A	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-02A	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-02B	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW7196_S	/					B2
P1453-02B	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1453

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1453-02C	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-02D	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	GRO_S	/					VOA
P1453-02D	NOB-101-0810	09/29/2015 14:10	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-03A	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	PMoist	/					B2
P1453-03A	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-03A	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW7471	/					B2
P1453-03A	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW8081_S	/					B2
P1453-03A	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW8082_S	/					B2
P1453-03A	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-03A	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-03B	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW7196_S	/					B2
P1453-03B	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-03C	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-03D	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	GRO_S	/					VOA
P1453-03D	NOB-115-0002	09/29/2015 14:25	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-04A	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	PMoist	/					B2
P1453-04A	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-04A	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW7471	/					B2
P1453-04A	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW8081_S	/					B2
P1453-04A	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW8082_S	/					B2
P1453-04A	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1453

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1453-04A	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-04B	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW7196_S	/					B2
P1453-04B	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-04C	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-04D	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	GRO_S	/					VOA
P1453-04D	NOB-115-1012	09/29/2015 14:40	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-05A	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	PMoist	/					B2
P1453-05A	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-05A	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW7471	/					B2
P1453-05A	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW8081_S	/					B2
P1453-05A	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW8082_S	/					B2
P1453-05A	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-05A	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-05B	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW7196_S	/					B2
P1453-05B	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-05C	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-05D	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	GRO_S	/					VOA
P1453-05D	NOB-114-0002	09/29/2015 15:00	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-06A	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	PMoist	/					B2
P1453-06A	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1453

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1453-06A	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW7471	/					B2
P1453-06A	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW8081_S	/					B2
P1453-06A	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW8082_S	/					B2
P1453-06A	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-06A	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-06B	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW7196_S	/					B2
P1453-06B	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-06C	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-06D	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	GRO_S	/					VOA
P1453-06D	NOB-114-0810	09/29/2015 15:05	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-07A	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	PMoist	/					B2
P1453-07A	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-07A	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW7471	/					B2
P1453-07A	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW8081_S	/					B2
P1453-07A	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW8082_S	/					B2
P1453-07A	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-07A	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-07B	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW7196_S	/					B2
P1453-07B	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-07C	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-07D	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	GRO_S	/					VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1453

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1453-07D	NOB-116-0002	09/29/2015 15:30	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-08A	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	PMoist	/					B2
P1453-08A	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-08A	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW7471	/					B2
P1453-08A	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW8081_S	/					B2
P1453-08A	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW8082_S	/					B2
P1453-08A	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-08A	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-08B	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW7196_S	/					B2
P1453-08B	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-08C	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-08D	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	GRO_S	/					VOA
P1453-08D	NOB-116-1113	09/29/2015 15:40	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-09A	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	PMoist	/					B2
P1453-09A	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-09A	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW7471	/					B2
P1453-09A	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW8081_S	/					B2
P1453-09A	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW8082_S	/					B2
P1453-09A	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-09A	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-09B	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW7196_S	/					B2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1453

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1453-09B	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-09C	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-09D	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	GRO_S	/					VOA
P1453-09D	NOB-117-0002	09/29/2015 16:00	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-10A	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	PMoist	/					B2
P1453-10A	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-10A	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW7471	/					B2
P1453-10A	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW8081_S	/					B2
P1453-10A	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW8082_S	/					B2
P1453-10A	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-10A	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-10B	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW7196_S	/					B2
P1453-10B	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-10C	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-10D	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	GRO_S	/					VOA
P1453-10D	NOB-117-0507	09/29/2015 16:10	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-11A	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	PMoist	/					B2
P1453-11A	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-11A	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW7471	/					B2
P1453-11A	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW8081_S	/					B2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1453

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1453-11A	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW8082_S	/					B2
P1453-11A	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-11A	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-11B	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW7196_S	/					B2
P1453-11B	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-11C	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-11D	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	GRO_S	/					VOA
P1453-11D	NOB-118-0002	09/29/2015 16:30	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-12A	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	PMoist	/					B2
P1453-12A	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	B2
P1453-12A	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW7471	/					B2
P1453-12A	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW8081_S	/					B2
P1453-12A	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW8082_S	/					B2
P1453-12A	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	B2
P1453-12A	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					B2
P1453-12B	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW7196_S	/					B2
P1453-12B	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					B2
P1453-12C	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1453-12D	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	GRO_S	/					VOA
P1453-12D	NOB-118-1012	09/29/2015 16:40	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1453-13A	TRIP BLANK-02	09/29/2015 17:30	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1453

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1453-13B	TRIP BLANK-02	09/29/2015 17:30	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

P1453

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 2

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering Inc
585 Middlesex St
Lowell MA 01851

Telephone #: 978 683-0841
Project Mgr.

Invoice To: Same

P.O. No.: RQN:

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington, RI State: RI
Sampler(s): AR/AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= ICE

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

P1453 G=Grab C=Composite

List preservative code below: 9/11 11 12 12 12 12 12 12

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	TPH-GRO/DRO	Pest./PCB	Metals (RT)	Hex. Cr.	Cyanide	
01	NOB-101-0002	9/29/15	1350	G	S	4	2			X	X	X	X	X	X	X	
02	NOB-101-0810	9/29/15	1410							X	X	X	X	X	X	X	
03	NOB-115-0002	9/29/15	1425							X	X	X	X	X	X	X	
04	NOB-115-1012	9/29/15	1440							X	X	X	X	X	X	X	
05	NOB-114-0002	9/29/15	1500							X	X	X	X	X	X	X	
06	NOB-114-0810	9/29/15	1505							X	X	X	X	X	X	X	
07	NOB-116-0002	9/29/15	1530							X	X	X	X	X	X	X	
08	NOB-116-1113	9/29/15	1540							X	X	X	X	X	X	X	
09	NOB-117-0002	9/29/15	1600							X	X	X	X	X	X	X	
10	NOB-117-0507	9/29/15	1610							X	X	X	X	X	X	X	

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/30/15	1145	
[signature]	[signature]	9/30/15	13:00	

☐ EDD Format _____
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.7°C, 3.6°C

P1453

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering, 585 Middlesex St, Lowell, MA 01851
Telephone #: 978-683-0841
Project Mgr. Tracy Costa

Invoice To: Same
P.O. No.: _____ RQN: _____

Project No.: 80108.2
Site Name: Palmer Paint
Location: Barrington, RI State: -
Sampler(s): AR/AO

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= Ice

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1453 G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	TPH-GRO-DRO	Pest/PCB	Metals (RI)	Hex Cr.	Cyanide			QA/QC Reporting Notes:
						Containers:				Analyses:									
										12 List preservative code below:									
										~~9/11~~ 11/12	12	12	12	12	12	12			
11	NOB-118-0002	9/29/15	1630	G	S	4	2			X	X	X	X	X	X	X			
12	NOB-118-1012	9/29/15	1640	G	S	4	2			X	X	X	X	X	X	X			
13	Trip Blank-02	9/29/15	TBD	G		2				X									

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/30/15	1145	
[signature]	[signature]	9/30/15	13:00	

☐ EDD Format _____
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.7°C, 3.6°C

Revised Feb 2013

Eurofins Spectrum Analytical, Inc. -- ESA-RI

Received By: NDA	Page 01 of 00
Reviewed By: CJP	Log-in Date 09/30/2015
Work Order: P1453	Client Name: Nobis Engineering, Inc
Project Name/Event: Barrington, RI site	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
5. Airbill No. — Courier N/A
6. Sample Tags — Present / Absent
   Sample Tag Numbers — Listed / Not Listed on Chain-of-Custody
7. Sample Condition — Intact / Broken / Leaking
8. Cooler Temperature Indicator Bottle — Present / Absent

9. Cooler Temperature	2.7 °C; 3.6°C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	09/30/2015
12. Time Received	13:00

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
P1453-01						F/M	
P1453-02						F/M	
P1453-03						F/M	
P1453-04						F/M	
P1453-05						F/M	
P1453-06						F/M	
P1453-07						F/M	
P1453-08						F/M	
P1453-09						F/M	
P1453-10						F/M	
P1453-11						F/M	
P1453-12						F/M	
P1453-13						F/M	

IR Temp Gun ID:MT-74

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

Last Page of Data Report

Report Date:
13-Oct-15 13:39

eurofins | Spectrum Analytical

- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Laboratory Report

Nobis Engineering, Inc
585 Middlesex Street
Lowell, MA 01851

Attn: Gail DeRuzzo

Work Order: P1454
Project : Barrington, RI site
Project #:

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P1454-01	WELL-2	Aqueous	29-Sep-15 13:10	30-Sep-15 13:00
P1454-02	TRIP BLANK-02	Aqueous	29-Sep-15 17:00	30-Sep-15 13:00
P1454-03	WELL-2-F	Aqueous		30-Sep-15 13:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Eurofins Spectrum Analytical (ESA-RI) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1454

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA

Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: WELL-2 (P1454-01AMS) and WELL-2 (P1454-01AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1454

SW846 8015D GRO, Gasoline Range Organic (GRO) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D GRO

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V4
Instrument Type: GC-FID/PID

Description: HP5890 A
Manufacturer: Hewlett-Packard
Model: 5890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: WELL-2 (P1454-01AMS) and WELL-2 (P1454-01AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

NA--Supervisor needs to explain why no internal standards were detected during the generation of this narrative.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1454

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi

Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

WELL-2 (P1454-01CMS), recovery is above criteria for Nitrobenzene-d5 at 113% with criteria of (40-110).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: WELL-2 (P1454-01CMS) and WELL-2 (P1454-01CMSD).

Percent recoveries were within the QC limits with the following exceptions:

WELL-2 (P1454-01CMS), recovery is above criteria for 1,2-Dichlorobenzene at 104% with criteria of (35-100), 1,3-Dichlorobenzene at 102% with criteria of (30-100), 1,4-Dichlorobenzene at 104% with criteria of (30-100), Benzo(a)anthracene at 117% with criteria of (55-110), Chrysene at 114% with criteria of (55-110), Dibenzofuran at 107% with criteria of (55-105), Hexachloroethane at 104% with criteria of (30-95), Naphthalene at 103% with criteria of (40-100), recovery is below criteria for Benzidine at 4% with criteria of (10-150).

WELL-2 (P1454-01CMSD), recovery is above criteria for 1,1´-Biphenyl at 109% with criteria of (55-108), 2-Chloronaphthalene at 106% with criteria of (50-105), Acenaphthylene at 112% with criteria of (50-105), Anthracene at 112% with criteria of (55-110), Benzo(a)anthracene at 120% with criteria of (55-110), Benzo(a)pyrene at 110% with criteria of (55-110), Bis(2-chloroethoxy)methane at 105% with criteria of (45-105), Chrysene at 116% with criteria of (55-110)Dibenzofuran at 111% with criteria of (55-105).

Replicate RPDs were within the advisory QC limits with the exception of the following:

WELL-2 (P1454-01CMSD), Relative Percent Difference is greater than reported RPD limit for Benzidine.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integrations were performed on the following:

LCS-83155 Benzidine , Pentachlorophenol due to M6

WELL-2 (P1454-01CMS) Pentachlorophenol due to M6

SSTD0056T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid, Pentachlorophenol due to M6

SSTD0106T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid due to M6

SSTD0256D Benzoic acid , Caprolactam, Pentachlorophenol due to M6

SSTD0406T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0606T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0806T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Indeno(1,2,3-cd)pyrene due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1454

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: WELL-2 (P1454-01CMS) and WELL-2 (P1454-01CMSD).

Percent recoveries were within the QC limits with the following exceptions:

WELL-2 (P1454-01CMS), recovery is below criteria for Endrin ketone on rear column at 70% with criteria of (75-125) and Endrin ketone on front column at 68% with criteria of (75-125).

WELL-2 (P1454-01CMSD), recovery is below criteria for Endrin ketone on rear column at 70% with criteria of (75-125) and Endrin ketone on front column at 68% with criteria of (75-125).

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1454

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard

Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: WELL-2 (P1454-01CMS) and WELL-2 (P1454-01CMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1454

SW846 8011, EDB and DBCP by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8011

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3570

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: WELL-2 (P1454-01BMS) and WELL-2 (P1454-01BMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

The following samples were manually integrated:

504L1H5 1,1,1,2-Tetrachloroethane on front column , 1,2-Dibromo-3-chloropropane on front column , 1,2-Dibromoethane on front column due to M3

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1454

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D TPH

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: WELL-2 (P1454-01CMS) and WELL-2 (P1454-01CMSD).

Percent recoveries were within the QC limits with the following exceptions:

Replicate RPDs were within the advisory QC limits with the exception of the following:

WELL-2 (P1454-01CMSD), Relative Percent Difference is greater than reported RPD limit for Extractable Total Petroleum Hydrocarbon.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1454

SW846 6020A, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6020A, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: X1
Instrument Type: ICPMS
Description: X1
Manufacturer: ThermoFisher
Model: X-Series 2

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: WELL-2 (P1454-01DMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

Duplicate analyses were performed on sample: WELL-2 (P1454-01DDUP).

Relative percent differences were within the QC limits.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on sample: WELL-2 (P1454-01DSD).

Percent differences were within the QC limits.

G. Samples:

No other unusual occurrences were noted during sample analysis.

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Signed: Shawn B Lawler

Date: 10/13/2015

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2 **Project:** Barrington, RI site
Lab ID: P1454-01 **Collection Date:** 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Chloromethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Vinyl chloride	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Bromomethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Chloroethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Trichlorofluoromethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,1-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Acetone	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Carbon disulfide	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Methylene chloride	ND		5.0	ug/L	1	10/01/2015 16:00	83160
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,1-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
2-Butanone	ND		5.0	ug/L	1	10/01/2015 16:00	83160
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
2,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Bromochloromethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Chloroform	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,1-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Carbon tetrachloride	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Benzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Trichloroethene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Dibromomethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Bromodichloromethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Toluene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,3-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Tetrachloroethene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
2-Hexanone	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Dibromochloromethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2-Dibromoethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Chlorobenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2 **Project:** Barrington, RI site
Lab ID: P1454-01 **Collection Date:** 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Ethylbenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
m,p-Xylene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
o-Xylene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Xylene (Total)	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Styrene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Bromoform	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Isopropylbenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Bromobenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
n-Propylbenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
2-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
4-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
tert-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
sec-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
4-Isopropyltoluene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
n-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Hexachlorobutadiene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Naphthalene	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Diethyl ether	ND		5.0	ug/L	1	10/01/2015 16:00	83160
Tetrahydrofuran	ND		10	ug/L	1	10/01/2015 16:00	83160
Surrogate: Dibromofluoromethane	104		85-115	%REC	1	10/01/2015 16:00	83160
Surrogate: 1,2-Dichloroethane-d4	100		70-120	%REC	1	10/01/2015 16:00	83160
Surrogate: Toluene-d8	106		85-120	%REC	1	10/01/2015 16:00	83160
Surrogate: Bromofluorobenzene	108		75-120	%REC	1	10/01/2015 16:00	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK-02 **Project:** Barrington, RI site
Lab ID: P1454-02 **Collection Date:** 09/29/15 17:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Chloromethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Vinyl chloride	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Bromomethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Chloroethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Trichlorofluoromethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,1-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Acetone	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Carbon disulfide	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Methylene chloride	ND		5.0	ug/L	1	10/01/2015 18:08	83160
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,1-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
2-Butanone	ND		5.0	ug/L	1	10/01/2015 18:08	83160
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
2,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Bromochloromethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Chloroform	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,1-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Carbon tetrachloride	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Benzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Trichloroethene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Dibromomethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Bromodichloromethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Toluene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,3-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Tetrachloroethene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
2-Hexanone	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Dibromochloromethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2-Dibromoethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Chlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK-02
Lab ID: P1454-02
Project: Barrington, RI site
Collection Date: 09/29/15 17:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Ethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
m,p-Xylene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
o-Xylene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Xylene (Total)	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Styrene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Bromoform	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Isopropylbenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Bromobenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
n-Propylbenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
2-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
4-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
tert-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
sec-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
4-Isopropyltoluene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
n-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Hexachlorobutadiene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Naphthalene	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Diethyl ether	ND		5.0	ug/L	1	10/01/2015 18:08	83160
Tetrahydrofuran	ND		10	ug/L	1	10/01/2015 18:08	83160
Surrogate: Dibromofluoromethane	102		85-115	%REC	1	10/01/2015 18:08	83160
Surrogate: 1,2-Dichloroethane-d4	101		70-120	%REC	1	10/01/2015 18:08	83160
Surrogate: Toluene-d8	105		85-120	%REC	1	10/01/2015 18:08	83160
Surrogate: Bromofluorobenzene	104		75-120	%REC	1	10/01/2015 18:08	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83160** SampType: **MBLK** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**

Client ID: **MB-83160** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 10:55** SeqNo: **2311466**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.66	1.0									
Chloromethane	ND	0.26	1.0									
Vinyl chloride	ND	0.50	1.0									
Bromomethane	ND	0.80	1.0									
Chloroethane	ND	0.48	1.0									
Trichlorofluoromethane	ND	0.54	1.0									
1,1-Dichloroethene	ND	0.39	1.0									
Acetone	ND	2.2	5.0									
Carbon disulfide	ND	0.34	1.0									
Methylene chloride	ND	0.41	1.0									
trans-1,2-Dichloroethene	ND	0.65	1.0									
Methyl tert-butyl ether	ND	0.24	1.0									
1,1-Dichloroethane	ND	0.25	1.0									
2-Butanone	ND	2.1	5.0									
cis-1,2-Dichloroethene	ND	0.48	1.0									
2,2-Dichloropropane	ND	0.30	1.0									
Bromochloromethane	ND	0.43	1.0									
Chloroform	ND	0.33	1.0									
1,1,1-Trichloroethane	ND	0.50	1.0									
1,1-Dichloropropene	ND	0.50	1.0									
Carbon tetrachloride	ND	0.54	1.0									
1,2-Dichloroethane	ND	0.41	1.0									
Benzene	ND	0.33	1.0									
Trichloroethene	ND	0.36	1.0									
1,2-Dichloropropane	ND	0.61	1.0									
Dibromomethane	ND	0.49	1.0									
Bromodichloromethane	ND	0.26	1.0									
cis-1,3-Dichloropropene	ND	0.45	1.0									
4-Methyl-2-pentanone	ND	0.82	5.0									
Toluene	ND	0.32	1.0									
trans-1,3-Dichloropropene	ND	0.48	1.0									
1,1,2-Trichloroethane	ND	0.38	1.0									
1,3-Dichloropropane	ND	0.22	1.0									
Tetrachloroethene	ND	0.65	1.0									
2-Hexanone	ND	1.7	5.0									
Dibromochloromethane	ND	0.57	1.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83160** SampType: **MBLK** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**
Client ID: **MB-83160** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 10:55** SeqNo: **2311466**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.50	1.0									
Chlorobenzene	ND	0.26	1.0									
1,1,1,2-Tetrachloroethane	ND	0.41	1.0									
Ethylbenzene	ND	0.35	1.0									
m,p-Xylene	ND	0.77	1.0									
o-Xylene	ND	0.36	1.0									
Xylene (Total)	ND	0.36	1.0									
Styrene	ND	0.50	1.0									
Bromoform	ND	0.77	1.0									
Isopropylbenzene	ND	0.38	1.0									
1,1,2,2-Tetrachloroethane	ND	0.42	1.0									
Bromobenzene	ND	0.36	1.0									
1,2,3-Trichloropropane	ND	0.82	1.0									
n-Propylbenzene	ND	0.64	1.0									
2-Chlorotoluene	ND	0.54	1.0									
1,3,5-Trimethylbenzene	ND	0.45	1.0									
4-Chlorotoluene	ND	0.45	1.0									
tert-Butylbenzene	ND	0.37	1.0									
1,2,4-Trimethylbenzene	ND	0.40	1.0									
sec-Butylbenzene	ND	0.28	1.0									
4-Isopropyltoluene	ND	0.46	1.0									
1,3-Dichlorobenzene	ND	0.29	1.0									
1,4-Dichlorobenzene	ND	0.40	1.0									
n-Butylbenzene	ND	0.33	1.0									
1,2-Dichlorobenzene	ND	0.33	1.0									
1,2-Dibromo-3-chloropropane	ND	0.75	1.0									
1,2,4-Trichlorobenzene	ND	0.26	1.0									
Hexachlorobutadiene	ND	0.41	1.0									
1,2,3-Trichlorobenzene	ND	0.33	1.0									
Naphthalene	ND	0.80	1.0									
Diethyl ether	ND	0.25	1.0									
Tetrahydrofuran	ND	2.1	10									
Surrogate: Dibromofluoromethane	50.58		5.0	50.00	0	101	85	115	0			
Surrogate: 1,2-Dichloroethane-d4	48.12		5.0	50.00	0	96.2	70	120	0			
Surrogate: Toluene-d8	48.48		5.0	50.00	0	97.0	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83160** SampType: **MBLK** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**

Client ID: **MB-83160** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 10:55** SeqNo: **2311466**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Bromofluorobenzene	49.56		5.0	50.00	0	99.1	75	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83160** SampType: **LCS** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**
Client ID: **LCS-83160** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 10:03** SeqNo: **2311465**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	42.42	0.66	5.0	50.00	0	84.8	30	155	0			
Chloromethane	55.44	0.26	5.0	50.00	0	111	40	125	0			
Vinyl chloride	52.26	0.50	5.0	50.00	0	105	50	145	0			
Bromomethane	55.47	0.80	5.0	50.00	0	111	30	145	0			
Chloroethane	51.42	0.48	5.0	50.00	0	103	60	135	0			
Trichlorofluoromethane	50.58	0.54	5.0	50.00	0	101	60	145	0			
1,1-Dichloroethene	51.73	0.39	5.0	50.00	0	103	70	130	0			
Acetone	59.12	2.2	5.0	50.00	0	118	40	140	0			
Carbon disulfide	55.77	0.34	5.0	50.00	0	112	35	160	0			
Methylene chloride	50.87	0.41	5.0	50.00	0	102	55	140	0			
trans-1,2-Dichloroethene	53.00	0.65	5.0	50.00	0	106	60	140	0			
Methyl tert-butyl ether	53.51	0.24	5.0	50.00	0	107	65	125	0			
1,1-Dichloroethane	52.63	0.25	5.0	50.00	0	105	70	135	0			
2-Butanone	55.23	2.1	5.0	50.00	0	110	30	150	0			
cis-1,2-Dichloroethene	51.53	0.48	5.0	50.00	0	103	70	125	0			
2,2-Dichloropropane	52.24	0.30	5.0	50.00	0	104	70	135	0			
Bromochloromethane	53.38	0.43	5.0	50.00	0	107	65	130	0			
Chloroform	54.33	0.33	5.0	50.00	0	109	65	135	0			
1,1,1-Trichloroethane	52.97	0.50	5.0	50.00	0	106	65	130	0			
1,1-Dichloropropene	52.85	0.50	5.0	50.00	0	106	75	130	0			
Carbon tetrachloride	51.64	0.54	5.0	50.00	0	103	65	140	0			
1,2-Dichloroethane	56.10	0.41	5.0	50.00	0	112	70	130	0			
Benzene	54.98	0.33	5.0	50.00	0	110	80	120	0			
Trichloroethene	52.72	0.36	5.0	50.00	0	105	70	125	0			
1,2-Dichloropropane	53.93	0.61	5.0	50.00	0	108	75	125	0			
Dibromomethane	54.67	0.49	5.0	50.00	0	109	75	125	0			
Bromodichloromethane	55.06	0.26	5.0	50.00	0	110	75	120	0			
cis-1,3-Dichloropropene	55.77	0.45	5.0	50.00	0	112	70	130	0			
4-Methyl-2-pentanone	55.84	0.82	5.0	50.00	0	112	60	135	0			
Toluene	53.00	0.32	5.0	50.00	0	106	75	120	0			
trans-1,3-Dichloropropene	53.24	0.48	5.0	50.00	0	106	55	140	0			
1,1,2-Trichloroethane	55.69	0.38	5.0	50.00	0	111	75	125	0			
1,3-Dichloropropane	52.86	0.22	5.0	50.00	0	106	75	125	0			
Tetrachloroethene	50.20	0.65	5.0	50.00	0	100	45	150	0			
2-Hexanone	54.50	1.7	5.0	50.00	0	109	55	130	0			
Dibromochloromethane	53.00	0.57	5.0	50.00	0	106	60	135	0			
1,2-Dibromoethane	51.81	0.50	5.0	50.00	0	104	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83160** SampType: **LCS** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**
Client ID: **LCS-83160** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 10:03** SeqNo: **2311465**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	51.15	0.26	5.0	50.00	0	102	80	120	0			
1,1,1,2-Tetrachloroethane	50.26	0.41	5.0	50.00	0	101	80	130	0			
Ethylbenzene	52.03	0.35	5.0	50.00	0	104	75	125	0			
m,p-Xylene	104.9	0.77	5.0	100.0	0	105	75	130	0			
o-Xylene	53.90	0.36	5.0	50.00	0	108	80	120	0			
Xylene (Total)	158.8	0.36	5.0	150.0	0	106	81	121	0			
Styrene	53.55	0.50	5.0	50.00	0	107	65	135	0			
Bromoform	55.29	0.77	5.0	50.00	0	111	70	130	0			
Isopropylbenzene	52.42	0.38	5.0	50.00	0	105	75	125	0			
1,1,2,2-Tetrachloroethane	52.61	0.42	5.0	50.00	0	105	65	130	0			
Bromobenzene	52.36	0.36	5.0	50.00	0	105	75	125	0			
1,2,3-Trichloropropane	55.20	0.82	5.0	50.00	0	110	75	125	0			
n-Propylbenzene	53.59	0.64	5.0	50.00	0	107	70	130	0			
2-Chlorotoluene	52.47	0.54	5.0	50.00	0	105	75	125	0			
1,3,5-Trimethylbenzene	53.44	0.45	5.0	50.00	0	107	75	130	0			
4-Chlorotoluene	54.21	0.45	5.0	50.00	0	108	75	130	0			
tert-Butylbenzene	52.22	0.37	5.0	50.00	0	104	70	130	0			
1,2,4-Trimethylbenzene	53.47	0.40	5.0	50.00	0	107	75	130	0			
sec-Butylbenzene	51.50	0.28	5.0	50.00	0	103	70	125	0			
4-Isopropyltoluene	53.53	0.46	5.0	50.00	0	107	75	130	0			
1,3-Dichlorobenzene	52.93	0.29	5.0	50.00	0	106	75	125	0			
1,4-Dichlorobenzene	50.59	0.40	5.0	50.00	0	101	75	125	0			
n-Butylbenzene	53.02	0.33	5.0	50.00	0	106	70	135	0			
1,2-Dichlorobenzene	52.11	0.33	5.0	50.00	0	104	70	120	0			
1,2-Dibromo-3-chloropropane	52.34	0.75	5.0	50.00	0	105	50	130	0			
1,2,4-Trichlorobenzene	54.96	0.26	5.0	50.00	0	110	65	135	0			
Hexachlorobutadiene	53.38	0.41	5.0	50.00	0	107	50	140	0			
1,2,3-Trichlorobenzene	55.10	0.33	5.0	50.00	0	110	55	140	0			
Naphthalene	54.50	0.80	5.0	50.00	0	109	55	140	0			
Diethyl ether	53.56	0.25	5.0	50.00	0	107	70	130	0			
Tetrahydrofuran	115.7	2.1	10	100.0	0	116	76	126	0			
Surrogate: Dibromofluoromethane	52.22		5.0	50.00	0	104	85	115	0			
Surrogate: 1,2-Dichloroethane-d4	52.74		5.0	50.00	0	105	70	120	0			
Surrogate: Toluene-d8	50.08		5.0	50.00	0	100	85	120	0			
Surrogate: Bromofluorobenzene	53.30		5.0	50.00	0	107	75	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **P1454-01AMS** SampType: **MS** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**
Client ID: **WELL-2** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 16:26** SeqNo: **2311479**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	56.05	0.66	5.0	50.00	0	112	30	155	0			
Chloromethane	56.30	0.26	5.0	50.00	0	113	40	125	0			
Vinyl chloride	53.37	0.50	5.0	50.00	0	107	50	145	0			
Bromomethane	50.98	0.80	5.0	50.00	0	102	30	145	0			
Chloroethane	49.61	0.48	5.0	50.00	0	99.2	60	135	0			
Trichlorofluoromethane	54.30	0.54	5.0	50.00	0	109	60	145	0			
1,1-Dichloroethene	50.52	0.39	5.0	50.00	0	101	70	130	0			
Acetone	53.32	2.2	5.0	50.00	0	107	40	140	0			
Carbon disulfide	55.13	0.34	5.0	50.00	0	110	35	160	0			
Methylene chloride	51.52	0.41	5.0	50.00	0	103	55	140	0			
trans-1,2-Dichloroethene	50.04	0.65	5.0	50.00	0	100	60	140	0			
Methyl tert-butyl ether	47.22	0.24	5.0	50.00	0	94.4	65	125	0			
1,1-Dichloroethane	53.49	0.25	5.0	50.00	0	107	70	135	0			
2-Butanone	50.61	2.1	5.0	50.00	0	101	30	150	0			
cis-1,2-Dichloroethene	48.04	0.48	5.0	50.00	0	96.1	70	125	0			
2,2-Dichloropropane	46.94	0.30	5.0	50.00	0	93.9	70	135	0			
Bromochloromethane	52.01	0.43	5.0	50.00	0	104	65	130	0			
Chloroform	52.95	0.33	5.0	50.00	0	106	65	135	0			
1,1,1-Trichloroethane	52.74	0.50	5.0	50.00	0	105	65	130	0			
1,1-Dichloropropene	53.58	0.50	5.0	50.00	0	107	75	130	0			
Carbon tetrachloride	52.93	0.54	5.0	50.00	0	106	65	140	0			
1,2-Dichloroethane	53.66	0.41	5.0	50.00	0	107	70	130	0			
Benzene	53.02	0.33	5.0	50.00	0	106	80	120	0			
Trichloroethene	51.64	0.36	5.0	50.00	0	103	70	125	0			
1,2-Dichloropropane	53.23	0.61	5.0	50.00	0	106	75	125	0			
Dibromomethane	52.32	0.49	5.0	50.00	0	105	75	125	0			
Bromodichloromethane	52.50	0.26	5.0	50.00	0	105	75	120	0			
cis-1,3-Dichloropropene	52.22	0.45	5.0	50.00	0	104	70	130	0			
4-Methyl-2-pentanone	52.20	0.82	5.0	50.00	0	104	60	135	0			
Toluene	52.48	0.32	5.0	50.00	0	105	75	120	0			
trans-1,3-Dichloropropene	50.01	0.48	5.0	50.00	0	100	55	140	0			
1,1,2-Trichloroethane	53.33	0.38	5.0	50.00	0	107	75	125	0			
1,3-Dichloropropane	52.95	0.22	5.0	50.00	0	106	75	125	0			
Tetrachloroethene	50.80	0.65	5.0	50.00	0	102	45	150	0			
2-Hexanone	50.64	1.7	5.0	50.00	0	101	55	130	0			
Dibromochloromethane	50.73	0.57	5.0	50.00	0	101	60	135	0			
1,2-Dibromoethane	50.31	0.50	5.0	50.00	0	101	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **P1454-01AMS** SampType: **MS** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**
Client ID: **WELL-2** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 16:26** SeqNo: **2311479**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	49.89	0.26	5.0	50.00	0	99.8	80	120	0			
1,1,1,2-Tetrachloroethane	49.33	0.41	5.0	50.00	0	98.7	80	130	0			
Ethylbenzene	50.65	0.35	5.0	50.00	0	101	75	125	0			
m,p-Xylene	102.7	0.77	5.0	100.0	0	103	75	130	0			
o-Xylene	52.18	0.36	5.0	50.00	0	104	80	120	0			
Xylene (Total)	154.8	0.36	5.0	150.0	0	103	81	121	0			
Styrene	51.49	0.50	5.0	50.00	0	103	65	135	0			
Bromoform	53.54	0.77	5.0	50.00	0	107	70	130	0			
Isopropylbenzene	53.22	0.38	5.0	50.00	0	106	75	125	0			
1,1,2,2-Tetrachloroethane	54.03	0.42	5.0	50.00	0	108	65	130	0			
Bromobenzene	53.67	0.36	5.0	50.00	0	107	75	125	0			
1,2,3-Trichloropropane	54.29	0.82	5.0	50.00	0	109	75	125	0			
n-Propylbenzene	55.11	0.64	5.0	50.00	0	110	70	130	0			
2-Chlorotoluene	51.38	0.54	5.0	50.00	0	103	75	125	0			
1,3,5-Trimethylbenzene	56.33	0.45	5.0	50.00	0	113	75	130	0			
4-Chlorotoluene	54.56	0.45	5.0	50.00	0	109	75	130	0			
tert-Butylbenzene	53.44	0.37	5.0	50.00	0	107	70	130	0			
1,2,4-Trimethylbenzene	54.27	0.40	5.0	50.00	0	109	75	130	0			
sec-Butylbenzene	52.46	0.28	5.0	50.00	0	105	70	125	0			
4-Isopropyltoluene	52.95	0.46	5.0	50.00	0	106	75	130	0			
1,3-Dichlorobenzene	51.62	0.29	5.0	50.00	0	103	75	125	0			
1,4-Dichlorobenzene	50.59	0.40	5.0	50.00	0	101	75	125	0			
n-Butylbenzene	52.37	0.33	5.0	50.00	0	105	70	135	0			
1,2-Dichlorobenzene	50.39	0.33	5.0	50.00	0	101	70	120	0			
1,2-Dibromo-3-chloropropane	51.57	0.75	5.0	50.00	0	103	50	130	0			
1,2,4-Trichlorobenzene	50.83	0.26	5.0	50.00	0	102	65	135	0			
Hexachlorobutadiene	50.59	0.41	5.0	50.00	0	101	50	140	0			
1,2,3-Trichlorobenzene	49.82	0.33	5.0	50.00	0	99.6	55	140	0			
Naphthalene	48.55	0.80	5.0	50.00	0	97.1	55	140	0			
Diethyl ether	53.32	0.25	5.0	50.00	0	107	70	130	0			
Tetrahydrofuran	106.7	2.1	10	100.0	0	107	76	126	0			
Surrogate: Dibromofluoromethane	51.49		5.0	50.00	0	103	85	115	0			
Surrogate: 1,2-Dichloroethane-d4	51.79		5.0	50.00	0	104	70	120	0			
Surrogate: Toluene-d8	51.12		5.0	50.00	0	102	85	120	0			
Surrogate: Bromofluorobenzene	54.38		5.0	50.00	0	109	75	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **P1454-01AMSD** SampType: **MSD** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**
Client ID: **WELL-2** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 17:17** SeqNo: **2311480**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	50.92	0.66	5.0	50.00	0	102	30	155	56.05	9.6	40	
Chloromethane	52.69	0.26	5.0	50.00	0	105	40	125	56.30	6.63	40	
Vinyl chloride	48.55	0.50	5.0	50.00	0	97.1	50	145	53.37	9.44	40	
Bromomethane	48.86	0.80	5.0	50.00	0	97.7	30	145	50.98	4.24	40	
Chloroethane	46.82	0.48	5.0	50.00	0	93.6	60	135	49.61	5.78	40	
Trichlorofluoromethane	47.11	0.54	5.0	50.00	0	94.2	60	145	54.30	14.2	40	
1,1-Dichloroethene	47.97	0.39	5.0	50.00	0	95.9	70	130	50.52	5.18	40	
Acetone	53.02	2.2	5.0	50.00	0	106	40	140	53.32	0.564	40	
Carbon disulfide	49.53	0.34	5.0	50.00	0	99.1	35	160	55.13	10.7	40	
Methylene chloride	48.39	0.41	5.0	50.00	0	96.8	55	140	51.52	6.26	40	
trans-1,2-Dichloroethene	46.70	0.65	5.0	50.00	0	93.4	60	140	50.04	6.9	40	
Methyl tert-butyl ether	47.26	0.24	5.0	50.00	0	94.5	65	125	47.22	0.0982	40	
1,1-Dichloroethane	50.21	0.25	5.0	50.00	0	100	70	135	53.49	6.32	40	
2-Butanone	47.47	2.1	5.0	50.00	0	94.9	30	150	50.61	6.4	40	
cis-1,2-Dichloroethene	47.63	0.48	5.0	50.00	0	95.3	70	125	48.04	0.858	40	
2,2-Dichloropropane	41.41	0.30	5.0	50.00	0	82.8	70	135	46.94	12.5	40	
Bromochloromethane	49.62	0.43	5.0	50.00	0	99.2	65	130	52.01	4.72	40	
Chloroform	49.16	0.33	5.0	50.00	0	98.3	65	135	52.95	7.43	40	
1,1,1-Trichloroethane	48.28	0.50	5.0	50.00	0	96.6	65	130	52.74	8.82	40	
1,1-Dichloropropene	46.87	0.50	5.0	50.00	0	93.7	75	130	53.58	13.3	40	
Carbon tetrachloride	47.08	0.54	5.0	50.00	0	94.2	65	140	52.93	11.7	40	
1,2-Dichloroethane	51.46	0.41	5.0	50.00	0	103	70	130	53.66	4.18	40	
Benzene	50.76	0.33	5.0	50.00	0	102	80	120	53.02	4.36	40	
Trichloroethene	47.20	0.36	5.0	50.00	0	94.4	70	125	51.64	8.98	40	
1,2-Dichloropropane	50.97	0.61	5.0	50.00	0	102	75	125	53.23	4.35	40	
Dibromomethane	51.72	0.49	5.0	50.00	0	103	75	125	52.32	1.14	40	
Bromodichloromethane	50.99	0.26	5.0	50.00	0	102	75	120	52.50	2.92	40	
cis-1,3-Dichloropropene	50.73	0.45	5.0	50.00	0	101	70	130	52.22	2.89	40	
4-Methyl-2-pentanone	51.18	0.82	5.0	50.00	0	102	60	135	52.20	1.97	40	
Toluene	49.41	0.32	5.0	50.00	0	98.8	75	120	52.48	6.03	40	
trans-1,3-Dichloropropene	48.49	0.48	5.0	50.00	0	97.0	55	140	50.01	3.09	40	
1,1,2-Trichloroethane	51.88	0.38	5.0	50.00	0	104	75	125	53.33	2.76	40	
1,3-Dichloropropane	50.79	0.22	5.0	50.00	0	102	75	125	52.95	4.16	40	
Tetrachloroethene	47.15	0.65	5.0	50.00	0	94.3	45	150	50.80	7.47	40	
2-Hexanone	48.16	1.7	5.0	50.00	0	96.3	55	130	50.64	5.01	40	
Dibromochloromethane	50.13	0.57	5.0	50.00	0	100	60	135	50.73	1.21	40	
1,2-Dibromoethane	48.56	0.50	5.0	50.00	0	97.1	80	120	50.31	3.54	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **P1454-01AMSD** SampType: **MSD** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**

Client ID: **WELL-2** Batch ID: **83160** Units: **ug/L** Analysis Date: **10/01/15 17:17** SeqNo: **2311480**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	46.81	0.26	5.0	50.00	0	93.6	80	120	49.89	6.36	40	
1,1,1,2-Tetrachloroethane	46.65	0.41	5.0	50.00	0	93.3	80	130	49.33	5.57	40	
Ethylbenzene	46.71	0.35	5.0	50.00	0	93.4	75	125	50.65	8.09	40	
m,p-Xylene	96.64	0.77	5.0	100.0	0	96.6	75	130	102.7	6.05	40	
o-Xylene	48.11	0.36	5.0	50.00	0	96.2	80	120	52.18	8.11	40	
Xylene (Total)	144.8	0.36	5.0	150.0	0	96.5	81	121	154.8	6.74	40	
Styrene	47.45	0.50	5.0	50.00	0	94.9	65	135	51.49	8.18	40	
Bromoform	51.83	0.77	5.0	50.00	0	104	70	130	53.54	3.23	40	
Isopropylbenzene	48.28	0.38	5.0	50.00	0	96.6	75	125	53.22	9.74	40	
1,1,2,2-Tetrachloroethane	50.28	0.42	5.0	50.00	0	101	65	130	54.03	7.19	40	
Bromobenzene	50.39	0.36	5.0	50.00	0	101	75	125	53.67	6.31	40	
1,2,3-Trichloropropane	50.42	0.82	5.0	50.00	0	101	75	125	54.29	7.39	40	
n-Propylbenzene	49.71	0.64	5.0	50.00	0	99.4	70	130	55.11	10.3	40	
2-Chlorotoluene	47.88	0.54	5.0	50.00	0	95.8	75	125	51.38	7.05	40	
1,3,5-Trimethylbenzene	50.21	0.45	5.0	50.00	0	100	75	130	56.33	11.5	40	
4-Chlorotoluene	49.70	0.45	5.0	50.00	0	99.4	75	130	54.56	9.33	40	
tert-Butylbenzene	47.87	0.37	5.0	50.00	0	95.7	70	130	53.44	11	40	
1,2,4-Trimethylbenzene	49.10	0.40	5.0	50.00	0	98.2	75	130	54.27	10	40	
sec-Butylbenzene	47.00	0.28	5.0	50.00	0	94.0	70	125	52.46	11	40	
4-Isopropyltoluene	48.21	0.46	5.0	50.00	0	96.4	75	130	52.95	9.37	40	
1,3-Dichlorobenzene	48.50	0.29	5.0	50.00	0	97.0	75	125	51.62	6.23	40	
1,4-Dichlorobenzene	46.33	0.40	5.0	50.00	0	92.7	75	125	50.59	8.79	40	
n-Butylbenzene	46.83	0.33	5.0	50.00	0	93.7	70	135	52.37	11.2	40	
1,2-Dichlorobenzene	46.63	0.33	5.0	50.00	0	93.3	70	120	50.39	7.75	40	
1,2-Dibromo-3-chloropropane	46.41	0.75	5.0	50.00	0	92.8	50	130	51.57	10.5	40	
1,2,4-Trichlorobenzene	47.04	0.26	5.0	50.00	0	94.1	65	135	50.83	7.74	40	
Hexachlorobutadiene	43.68	0.41	5.0	50.00	0	87.4	50	140	50.59	14.7	40	
1,2,3-Trichlorobenzene	45.49	0.33	5.0	50.00	0	91.0	55	140	49.82	9.09	40	
Naphthalene	45.64	0.80	5.0	50.00	0	91.3	55	140	48.55	6.19	40	
Diethyl ether	53.57	0.25	5.0	50.00	0	107	70	130	53.32	0.46	40	
Tetrahydrofuran	104.2	2.1	10	100.0	0	104	76	126	106.7	2.4	40	
Surrogate: Dibromofluoromethane	51.33		5.0	50.00	0	103	85	115	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	49.58		5.0	50.00	0	99.2	70	120	0	0	40	
Surrogate: Toluene-d8	51.98		5.0	50.00	0	104	85	120	0	0	40	
Surrogate: Bromofluorobenzene	53.19		5.0	50.00	0	106	75	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2
Lab ID: P1454-01
Project: Barrington, RI site
Collection Date: 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_W**
Gasoline Range Organics	ND		100	ug/L	1	10/02/2015 14:30	83193
Surrogate: Bromofluorobenzene	103		87-112	%REC	1	10/02/2015 14:30	83193

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

GRO_W

SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID

Sample ID: **MB-83193** SampType: **MBLK** TestCode: **GRO_W** Prep Date: **10/02/15 9:33** Run ID: **V4_151002A**
Client ID: **MB-83193** Batch ID: **83193** Units: **ug/L** Analysis Date: **10/02/15 11:06** SeqNo: **2313641**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.8	100									
Surrogate: Bromofluorobenzene	20.53		5.0	20.00	0	103	87	112	0			

Sample ID: **LCS-83193** SampType: **LCS** TestCode: **GRO_W** Prep Date: **10/02/15 9:33** Run ID: **V4_151002A**
Client ID: **LCS-83193** Batch ID: **83193** Units: **ug/L** Analysis Date: **10/02/15 10:03** SeqNo: **2313640**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	489.1	5.8	100	500.0	0	97.8	80	120	0			
Surrogate: Bromofluorobenzene	22.14		5.0	20.00	0	111	87	112	0			

Sample ID: **P1454-01AMS** SampType: **MS** TestCode: **GRO_W** Prep Date: **10/02/15 9:33** Run ID: **V4_151002A**
Client ID: **WELL-2** Batch ID: **83193** Units: **ug/L** Analysis Date: **10/02/15 11:50** SeqNo: **2313642**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	452.4	5.8	100	500.0	0	90.5	60	140	0			
Surrogate: Bromofluorobenzene	19.82		5.0	20.00	0	99.1	87	112	0			

Sample ID: **P1454-01AMSD** SampType: **MSD** TestCode: **GRO_W** Prep Date: **10/02/15 9:33** Run ID: **V4_151002A**
Client ID: **WELL-2** Batch ID: **83193** Units: **ug/L** Analysis Date: **10/02/15 12:12** SeqNo: **2313643**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	441.5	5.8	100	500.0	0	88.3	60	140	452.4	2.43	20	
Surrogate: Bromofluorobenzene	20.79		5.0	20.00	0	104	87	112	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2 **Project:** Barrington, RI site
Lab ID: P1454-01 **Collection Date:** 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Phenol	ND		10	ug/L	1	10/03/2015 2:50	83155
Bis(2-chloroethyl)ether	ND		10	ug/L	1	10/03/2015 2:50	83155
2-Chlorophenol	ND		10	ug/L	1	10/03/2015 2:50	83155
1,3-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 2:50	83155
1,4-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 2:50	83155
1,2-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 2:50	83155
2-Methylphenol	ND		10	ug/L	1	10/03/2015 2:50	83155
4-Methylphenol	ND		10	ug/L	1	10/03/2015 2:50	83155
N-Nitroso-di-n-propylamine	ND		10	ug/L	1	10/03/2015 2:50	83155
Hexachloroethane	ND		10	ug/L	1	10/03/2015 2:50	83155
Nitrobenzene	ND		10	ug/L	1	10/03/2015 2:50	83155
Isophorone	ND		10	ug/L	1	10/03/2015 2:50	83155
2-Nitrophenol	ND		10	ug/L	1	10/03/2015 2:50	83155
2,4-Dimethylphenol	ND		10	ug/L	1	10/03/2015 2:50	83155
2,4-Dichlorophenol	ND		10	ug/L	1	10/03/2015 2:50	83155
1,2,4-Trichlorobenzene	ND		10	ug/L	1	10/03/2015 2:50	83155
Naphthalene	ND		10	ug/L	1	10/03/2015 2:50	83155
4-Chloroaniline	ND		10	ug/L	1	10/03/2015 2:50	83155
Bis(2-chloroethoxy)methane	ND		10	ug/L	1	10/03/2015 2:50	83155
Hexachlorobutadiene	ND		10	ug/L	1	10/03/2015 2:50	83155
4-Chloro-3-methylphenol	ND		10	ug/L	1	10/03/2015 2:50	83155
2-Methylnaphthalene	ND		10	ug/L	1	10/03/2015 2:50	83155
Hexachlorocyclopentadiene	ND		10	ug/L	1	10/03/2015 2:50	83155
2,4,6-Trichlorophenol	ND		10	ug/L	1	10/03/2015 2:50	83155
2,4,5-Trichlorophenol	ND		20	ug/L	1	10/03/2015 2:50	83155
2-Chloronaphthalene	ND		10	ug/L	1	10/03/2015 2:50	83155
2-Nitroaniline	ND		20	ug/L	1	10/03/2015 2:50	83155
Dimethylphthalate	2.1	J	10	ug/L	1	10/03/2015 2:50	83155
Acenaphthylene	ND		10	ug/L	1	10/03/2015 2:50	83155
2,6-Dinitrotoluene	ND		10	ug/L	1	10/03/2015 2:50	83155
3-Nitroaniline	ND		20	ug/L	1	10/03/2015 2:50	83155
Acenaphthene	ND		10	ug/L	1	10/03/2015 2:50	83155
2,4-Dinitrophenol	ND		20	ug/L	1	10/03/2015 2:50	83155
4-Nitrophenol	ND		20	ug/L	1	10/03/2015 2:50	83155
Dibenzofuran	ND		10	ug/L	1	10/03/2015 2:50	83155
2,4-Dinitrotoluene	ND		10	ug/L	1	10/03/2015 2:50	83155
Diethylphthalate	ND		10	ug/L	1	10/03/2015 2:50	83155
4-Chlorophenyl-phenylether	ND		10	ug/L	1	10/03/2015 2:50	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2 **Project:** Barrington, RI site
Lab ID: P1454-01 **Collection Date:** 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Fluorene	ND		10	ug/L	1	10/03/2015 2:50	83155
4-Nitroaniline	ND		20	ug/L	1	10/03/2015 2:50	83155
4,6-Dinitro-2-methylphenol	ND		20	ug/L	1	10/03/2015 2:50	83155
N-Nitrosodiphenylamine	ND		10	ug/L	1	10/03/2015 2:50	83155
4-Bromophenyl-phenylether	ND		10	ug/L	1	10/03/2015 2:50	83155
Hexachlorobenzene	ND		10	ug/L	1	10/03/2015 2:50	83155
Pentachlorophenol	ND		20	ug/L	1	10/03/2015 2:50	83155
Phenanthrene	ND		10	ug/L	1	10/03/2015 2:50	83155
Anthracene	ND		10	ug/L	1	10/03/2015 2:50	83155
Carbazole	ND		10	ug/L	1	10/03/2015 2:50	83155
Di-n-butylphthalate	ND		10	ug/L	1	10/03/2015 2:50	83155
Fluoranthene	ND		10	ug/L	1	10/03/2015 2:50	83155
Pyrene	ND		10	ug/L	1	10/03/2015 2:50	83155
Butylbenzylphthalate	ND		10	ug/L	1	10/03/2015 2:50	83155
3,3´-Dichlorobenzidine	ND		10	ug/L	1	10/03/2015 2:50	83155
Benzo(a)anthracene	ND		10	ug/L	1	10/03/2015 2:50	83155
Chrysene	ND		10	ug/L	1	10/03/2015 2:50	83155
Bis(2-ethylhexyl)phthalate	2.5	J	10	ug/L	1	10/03/2015 2:50	83155
Di-n-octylphthalate	ND		10	ug/L	1	10/03/2015 2:50	83155
Benzo(b)fluoranthene	ND		10	ug/L	1	10/03/2015 2:50	83155
Benzo(k)fluoranthene	ND		10	ug/L	1	10/03/2015 2:50	83155
Benzo(a)pyrene	ND		10	ug/L	1	10/03/2015 2:50	83155
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	1	10/03/2015 2:50	83155
Dibenzo(a,h)anthracene	ND		10	ug/L	1	10/03/2015 2:50	83155
Benzo(g,h,i)perylene	ND		10	ug/L	1	10/03/2015 2:50	83155
1,1´-Biphenyl	ND		10	ug/L	1	10/03/2015 2:50	83155
3-Methylphenol + 4-Methylphenol	ND		10	ug/L	1	10/03/2015 2:50	83155
Acetophenone	ND		10	ug/L	1	10/03/2015 2:50	83155
Aniline	ND		10	ug/L	1	10/03/2015 2:50	83155
Azobenzene	ND		10	ug/L	1	10/03/2015 2:50	83155
Benzidine	ND		10	ug/L	1	10/03/2015 2:50	83155
Benzoic acid	ND		20	ug/L	1	10/03/2015 2:50	83155
Benzyl alcohol	ND		10	ug/L	1	10/03/2015 2:50	83155
Bis(2-chloroisopropyl)ether	ND		10	ug/L	1	10/03/2015 2:50	83155
N-Nitrosodimethylamine	ND		10	ug/L	1	10/03/2015 2:50	83155
Surrogate: Nitrobenzene-d5	97.7		40-110	%REC	1	10/03/2015 2:50	83155
Surrogate: 2-Fluorobiphenyl	98.0		50-110	%REC	1	10/03/2015 2:50	83155
Surrogate: Terphenyl-d14	120		50-135	%REC	1	10/03/2015 2:50	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2
Lab ID: P1454-01
Project: Barrington, RI site
Collection Date: 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Surrogate: Phenol-d5	22.3		10-115	%REC	1	10/03/2015 2:50	83155
Surrogate: 2-Fluorophenol	38.4		20-110	%REC	1	10/03/2015 2:50	83155
Surrogate: 2,4,6-Tribromophenol	88.9		40-125	%REC	1	10/03/2015 2:50	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83155** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**

Client ID: **MB-83155** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 1:58** SeqNo: **2312671**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	0.75	10									
Bis(2-chloroethyl)ether	ND	0.75	10									
2-Chlorophenol	ND	0.61	10									
1,3-Dichlorobenzene	ND	0.71	10									
1,4-Dichlorobenzene	ND	1.1	10									
1,2-Dichlorobenzene	ND	0.84	10									
2-Methylphenol	ND	0.96	10									
4-Methylphenol	ND	1.4	10									
N-Nitroso-di-n-propylamine	ND	0.63	10									
Hexachloroethane	ND	0.55	10									
Nitrobenzene	ND	1.6	10									
Isophorone	ND	0.47	10									
2-Nitrophenol	ND	0.60	10									
2,4-Dimethylphenol	ND	1.8	10									
2,4-Dichlorophenol	ND	0.57	10									
1,2,4-Trichlorobenzene	ND	0.93	10									
Naphthalene	ND	0.96	10									
4-Chloroaniline	ND	2.0	10									
Bis(2-chloroethoxy)methane	ND	1.1	10									
Hexachlorobutadiene	ND	0.75	10									
4-Chloro-3-methylphenol	ND	0.60	10									
2-Methylnaphthalene	ND	0.94	10									
Hexachlorocyclopentadiene	ND	1.0	10									
2,4,6-Trichlorophenol	ND	0.53	10									
2,4,5-Trichlorophenol	ND	0.26	20									
2-Chloronaphthalene	ND	0.81	10									
2-Nitroaniline	ND	0.71	20									
Dimethylphthalate	ND	0.37	10									
Acenaphthylene	ND	0.42	10									
2,6-Dinitrotoluene	ND	0.52	10									
3-Nitroaniline	ND	0.97	20									
Acenaphthene	ND	0.65	10									
2,4-Dinitrophenol	ND	3.5	20									
4-Nitrophenol	ND	0.53	20									
Dibenzofuran	ND	0.52	10									
2,4-Dinitrotoluene	ND	0.41	10									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83155** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **MB-83155** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 1:58** SeqNo: **2312671**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylphthalate	ND	0.45	10									
4-Chlorophenyl-phenylether	ND	0.41	10									
Fluorene	ND	0.44	10									
4-Nitroaniline	ND	0.96	20									
4,6-Dinitro-2-methylphenol	ND	0.79	20									
N-Nitrosodiphenylamine	ND	1.1	10									
4-Bromophenyl-phenylether	ND	0.54	10									
Hexachlorobenzene	ND	0.44	10									
Pentachlorophenol	ND	1.7	20									
Phenanthrene	ND	0.45	10									
Anthracene	ND	0.48	10									
Carbazole	ND	0.64	10									
Di-n-butylphthalate	ND	0.48	10									
Fluoranthene	ND	0.33	10									
Pyrene	ND	0.44	10									
Butylbenzylphthalate	ND	0.32	10									
3,3´-Dichlorobenzidine	ND	1.7	10									
Benzo(a)anthracene	ND	0.40	10									
Chrysene	ND	0.42	10									
Bis(2-ethylhexyl)phthalate	ND	1.3	10									
Di-n-octylphthalate	ND	0.47	10									
Benzo(b)fluoranthene	ND	0.94	10									
Benzo(k)fluoranthene	ND	1.2	10									
Benzo(a)pyrene	ND	1.2	10									
Indeno(1,2,3-cd)pyrene	ND	0.38	10									
Dibenzo(a,h)anthracene	ND	0.44	10									
Benzo(g,h,i)perylene	ND	0.39	10									
1,1´-Biphenyl	ND	0.65	10									
3-Methylphenol + 4-Methylphenol	ND	1.4	10									
Acetophenone	ND	0.51	10									
Aniline	ND	1.3	10									
Azobenzene	ND	0.71	10									
Benzidine	ND	1.8	10									
Benzoic acid	ND	2.0	20									
Benzyl alcohol	ND	0.87	10									
Bis(2-chloroisopropyl)ether	ND	1.0	10									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83155** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **MB-83155** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 1:58** SeqNo: **2312671**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	ND	0.56	10									
Surrogate: Nitrobenzene-d5	49.79		10	50.00	0	99.6	40	110	0			
Surrogate: 2-Fluorobiphenyl	49.51		10	50.00	0	99.0	50	110	0			
Surrogate: Terphenyl-d14	59.97		10	50.00	0	120	50	135	0			
Surrogate: Phenol-d5	55.49		10	50.00	0	111	10	115	0			
Surrogate: 2-Fluorophenol	50.19		10	50.00	0	100	20	110	0			
Surrogate: 2,4,6-Tribromophenol	37.91		10	50.00	0	75.8	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83155** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **LCS-83155** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 2:24** SeqNo: **2312673**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	40.88	0.75	10	50.00	0	81.8	0	115	0			
Bis(2-chloroethyl)ether	39.76	0.75	10	50.00	0	79.5	35	110	0			
2-Chlorophenol	39.36	0.61	10	50.00	0	78.7	35	105	0			
1,3-Dichlorobenzene	36.59	0.71	10	50.00	0	73.2	30	100	0			
1,4-Dichlorobenzene	36.16	1.1	10	50.00	0	72.3	30	100	0			
1,2-Dichlorobenzene	38.17	0.84	10	50.00	0	76.3	35	100	0			
2-Methylphenol	40.01	0.96	10	50.00	0	80.0	40	110	0			
4-Methylphenol	41.97	1.4	10	50.00	0	83.9	30	110	0			
N-Nitroso-di-n-propylamine	39.80	0.63	10	50.00	0	79.6	35	130	0			
Hexachloroethane	35.92	0.55	10	50.00	0	71.8	30	95	0			
Nitrobenzene	36.73	1.6	10	50.00	0	73.5	45	110	0			
Isophorone	36.54	0.47	10	50.00	0	73.1	50	110	0			
2-Nitrophenol	36.07	0.60	10	50.00	0	72.1	40	115	0			
2,4-Dimethylphenol	37.17	1.8	10	50.00	0	74.3	30	110	0			
2,4-Dichlorophenol	38.45	0.57	10	50.00	0	76.9	50	105	0			
1,2,4-Trichlorobenzene	35.41	0.93	10	50.00	0	70.8	35	105	0			
Naphthalene	37.33	0.96	10	50.00	0	74.7	40	100	0			
4-Chloroaniline	34.71	2.0	10	50.00	0	69.4	15	110	0			
Bis(2-chloroethoxy)methane	37.67	1.1	10	50.00	0	75.3	45	105	0			
Hexachlorobutadiene	34.73	0.75	10	50.00	0	69.5	25	105	0			
4-Chloro-3-methylphenol	39.64	0.60	10	50.00	0	79.3	45	110	0			
2-Methylnaphthalene	36.80	0.94	10	50.00	0	73.6	45	105	0			
Hexachlorocyclopentadiene	26.80	1.0	10	50.00	0	53.6	27	147	0			
2,4,6-Trichlorophenol	37.65	0.53	10	50.00	0	75.3	50	115	0			
2,4,5-Trichlorophenol	41.21	0.26	20	50.00	0	82.4	50	110	0			
2-Chloronaphthalene	38.12	0.81	10	50.00	0	76.2	50	105	0			
2-Nitroaniline	40.44	0.71	20	50.00	0	80.9	50	115	0			
Dimethylphthalate	41.75	0.37	10	50.00	0	83.5	25	125	0			
Acenaphthylene	39.65	0.42	10	50.00	0	79.3	50	105	0			
2,6-Dinitrotoluene	40.68	0.52	10	50.00	0	81.4	50	115	0			
3-Nitroaniline	41.01	0.97	20	50.00	0	82.0	20	125	0			
Acenaphthene	39.82	0.65	10	50.00	0	79.6	45	110	0			
2,4-Dinitrophenol	19.99	3.5	20	50.00	0	40.0	15	140	0			J
4-Nitrophenol	40.87	0.53	20	50.00	0	81.7	0	125	0			
Dibenzofuran	40.34	0.52	10	50.00	0	80.7	55	105	0			
2,4-Dinitrotoluene	43.46	0.41	10	50.00	0	86.9	50	120	0			
Diethylphthalate	43.15	0.45	10	50.00	0	86.3	40	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83155** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **LCS-83155** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 2:24** SeqNo: **2312673**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	40.30	0.41	10	50.00	0	80.6	50	110	0			
Fluorene	40.77	0.44	10	50.00	0	81.5	50	110	0			
4-Nitroaniline	47.18	0.96	20	50.00	0	94.4	35	120	0			
4,6-Dinitro-2-methylphenol	32.65	0.79	20	50.00	0	65.3	40	130	0			
N-Nitrosodiphenylamine	39.72	1.1	10	50.00	0	79.4	50	110	0			
4-Bromophenyl-phenylether	37.29	0.54	10	50.00	0	74.6	50	115	0			
Hexachlorobenzene	34.18	0.44	10	50.00	0	68.4	50	110	0			
Pentachlorophenol	20.17	1.7	20	50.00	0	40.3	40	115	0			
Phenanthrene	40.26	0.45	10	50.00	0	80.5	50	115	0			
Anthracene	40.63	0.48	10	50.00	0	81.3	55	110	0			
Carbazole	41.66	0.64	10	50.00	0	83.3	50	115	0			
Di-n-butylphthalate	42.27	0.48	10	50.00	0	84.5	55	115	0			
Fluoranthene	42.49	0.33	10	50.00	0	85.0	55	115	0			
Pyrene	40.17	0.44	10	50.00	0	80.3	50	130	0			
Butylbenzylphthalate	42.23	0.32	10	50.00	0	84.5	45	115	0			
3,3´-Dichlorobenzidine	42.61	1.7	10	50.00	0	85.2	20	110	0			
Benzo(a)anthracene	43.92	0.40	10	50.00	0	87.8	55	110	0			
Chrysene	43.49	0.42	10	50.00	0	87.0	55	110	0			
Bis(2-ethylhexyl)phthalate	41.13	1.3	10	50.00	0	82.3	40	125	0			
Di-n-octylphthalate	42.46	0.47	10	50.00	0	84.9	35	135	0			
Benzo(b)fluoranthene	42.82	0.94	10	50.00	0	85.6	45	120	0			
Benzo(k)fluoranthene	40.01	1.2	10	50.00	0	80.0	45	125	0			
Benzo(a)pyrene	41.21	1.2	10	50.00	0	82.4	55	110	0			
Indeno(1,2,3-cd)pyrene	37.43	0.38	10	50.00	0	74.9	45	125	0			
Dibenzo(a,h)anthracene	41.75	0.44	10	50.00	0	83.5	40	125	0			
Benzo(g,h,i)perylene	40.05	0.39	10	50.00	0	80.1	40	125	0			
1,1´-Biphenyl	39.12	0.65	10	50.00	0	78.2	55	108	0			
3-Methylphenol + 4-Methylphenol	41.97	1.4	10	50.00	0	83.9	30	110	0			
Acetophenone	39.52	0.51	10	50.00	0	79.0	56	145	0			
Aniline	19.33	1.3	10	50.00	0	38.7	10	150	0			
Azobenzene	41.33	0.71	10	50.00	0	82.7	46	117	0			
Benzidine	35.48	1.8	10	50.00	0	71.0	10	150	0			
Benzoic acid	3.177	2.0	20	50.00	0	6.35	0	125	0			
Benzyl alcohol	40.73	0.87	10	50.00	0	81.5	30	110	0			
Bis(2-chloroisopropyl)ether	34.03	1.0	10	50.00	0	68.1	40	140	0			
N-Nitrosodimethylamine	36.38	0.56	10	50.00	0	72.8	25	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83155** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **LCS-83155** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 2:24** SeqNo: **2312673**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Nitrobenzene-d5	40.01		10	50.00	0	80.0	40	110	0			
Surrogate: 2-Fluorobiphenyl	41.31		10	50.00	0	82.6	50	110	0			
Surrogate: Terphenyl-d14	45.43		10	50.00	0	90.9	50	135	0			
Surrogate: Phenol-d5	43.92		10	50.00	0	87.8	10	115	0			
Surrogate: 2-Fluorophenol	44.25		10	50.00	0	88.5	20	110	0			
Surrogate: 2,4,6-Tribromophenol	35.66		10	50.00	0	71.3	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1454-01CMS** SampType: **MS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **WELL-2** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 3:16** SeqNo: **2312677**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	12.82	0.75	10	50.00	0	25.6	0	115	0			
Bis(2-chloroethyl)ether	49.14	0.75	10	50.00	0	98.3	35	110	0			
2-Chlorophenol	42.60	0.61	10	50.00	0	85.2	35	105	0			
1,3-Dichlorobenzene	50.79	0.71	10	50.00	0	102	30	100	0			S
1,4-Dichlorobenzene	51.93	1.1	10	50.00	0	104	30	100	0			S
1,2-Dichlorobenzene	51.88	0.84	10	50.00	0	104	35	100	0			S
2-Methylphenol	34.18	0.96	10	50.00	0	68.4	40	110	0			
4-Methylphenol	30.28	1.4	10	50.00	0	60.6	30	110	0			
N-Nitroso-di-n-propylamine	55.04	0.63	10	50.00	0	110	35	130	0			
Hexachloroethane	51.95	0.55	10	50.00	0	104	30	95	0			S
Nitrobenzene	52.15	1.6	10	50.00	0	104	45	110	0			
Isophorone	50.87	0.47	10	50.00	0	102	50	110	0			
2-Nitrophenol	50.27	0.60	10	50.00	0	101	40	115	0			
2,4-Dimethylphenol	43.25	1.8	10	50.00	0	86.5	30	110	0			
2,4-Dichlorophenol	48.10	0.57	10	50.00	0	96.2	50	105	0			
1,2,4-Trichlorobenzene	47.89	0.93	10	50.00	0	95.8	35	105	0			
Naphthalene	51.66	0.96	10	50.00	0	103	40	100	0			S
4-Chloroaniline	25.88	2.0	10	50.00	0	51.8	15	110	0			
Bis(2-chloroethoxy)methane	52.49	1.1	10	50.00	0	105	45	105	0			
Hexachlorobutadiene	50.38	0.75	10	50.00	0	101	25	105	0			
4-Chloro-3-methylphenol	42.47	0.60	10	50.00	0	84.9	45	110	0			
2-Methylnaphthalene	51.78	0.94	10	50.00	0	104	45	105	0			
Hexachlorocyclopentadiene	38.82	1.0	10	50.00	0	77.6	27	147	0			
2,4,6-Trichlorophenol	50.49	0.53	10	50.00	0	101	50	115	0			
2,4,5-Trichlorophenol	48.58	0.26	20	50.00	0	97.2	50	110	0			
2-Chloronaphthalene	52.08	0.81	10	50.00	0	104	50	105	0			
2-Nitroaniline	52.58	0.71	20	50.00	0	105	50	115	0			
Dimethylphthalate	55.38	0.37	10	50.00	2.087	107	25	125	0			
Acenaphthylene	52.32	0.42	10	50.00	0	105	50	105	0			
2,6-Dinitrotoluene	53.41	0.52	10	50.00	0	107	50	115	0			
3-Nitroaniline	38.64	0.97	20	50.00	0	77.3	20	125	0			
Acenaphthene	52.98	0.65	10	50.00	0	106	45	110	0			
2,4-Dinitrophenol	39.36	3.5	20	50.00	0	78.7	15	140	0			
4-Nitrophenol	17.27	0.53	20	50.00	0	34.5	0	125	0			J
Dibenzofuran	53.57	0.52	10	50.00	0	107	55	105	0			S
2,4-Dinitrotoluene	58.02	0.41	10	50.00	0	116	50	120	0			
Diethylphthalate	55.13	0.45	10	50.00	0	110	40	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1454-01CMS** SampType: **MS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **WELL-2** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 3:16** SeqNo: **2312677**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	52.44	0.41	10	50.00	0	105	50	110	0			
Fluorene	53.05	0.44	10	50.00	0	106	50	110	0			
4-Nitroaniline	54.67	0.96	20	50.00	0	109	35	120	0			
4,6-Dinitro-2-methylphenol	52.06	0.79	20	50.00	0	104	40	130	0			
N-Nitrosodiphenylamine	53.05	1.1	10	50.00	0	106	50	110	0			
4-Bromophenyl-phenylether	50.33	0.54	10	50.00	0	101	50	115	0			
Hexachlorobenzene	48.67	0.44	10	50.00	0	97.3	50	110	0			
Pentachlorophenol	30.04	1.7	20	50.00	0	60.1	40	115	0			
Phenanthrene	53.37	0.45	10	50.00	0	107	50	115	0			
Anthracene	53.91	0.48	10	50.00	0	108	55	110	0			
Carbazole	55.64	0.64	10	50.00	0	111	50	115	0			
Di-n-butylphthalate	56.23	0.48	10	50.00	0	112	55	115	0			
Fluoranthene	56.59	0.33	10	50.00	0	113	55	115	0			
Pyrene	51.65	0.44	10	50.00	0	103	50	130	0			
Butylbenzylphthalate	53.21	0.32	10	50.00	0	106	45	115	0			
3,3´-Dichlorobenzidine	47.32	1.7	10	50.00	0	94.6	20	110	0			
Benzo(a)anthracene	58.58	0.40	10	50.00	0	117	55	110	0			S
Chrysene	57.15	0.42	10	50.00	0	114	55	110	0			S
Bis(2-ethylhexyl)phthalate	55.20	1.3	10	50.00	2.500	105	40	125	0			
Di-n-octylphthalate	53.79	0.47	10	50.00	0	108	35	135	0			
Benzo(b)fluoranthene	54.80	0.94	10	50.00	0	110	45	120	0			
Benzo(k)fluoranthene	51.61	1.2	10	50.00	0	103	45	125	0			
Benzo(a)pyrene	53.09	1.2	10	50.00	0	106	55	110	0			
Indeno(1,2,3-cd)pyrene	47.70	0.38	10	50.00	0	95.4	45	125	0			
Dibenzo(a,h)anthracene	54.06	0.44	10	50.00	0	108	40	125	0			
Benzo(g,h,i)perylene	51.47	0.39	10	50.00	0	103	40	125	0			
1,1´-Biphenyl	52.07	0.65	10	50.00	0	104	55	108	0			
3-Methylphenol + 4-Methylphenol	30.28	1.4	10	50.00	0	60.6	30	110	0			
Acetophenone	56.36	0.51	10	50.00	0	113	56	145	0			
Aniline	11.57	1.3	10	50.00	0	23.1	10	150	0			
Azobenzene	55.66	0.71	10	50.00	0	111	46	117	0			
Benzidine	2.124	1.8	10	50.00	0	4.25	10	150	0			JS
Benzoic acid	2.447	2.0	20	50.00	0	4.89	0	125	0			J
Benzyl alcohol	36.89	0.87	10	50.00	0	73.8	30	110	0			
Bis(2-chloroisopropyl)ether	48.17	1.0	10	50.00	0	96.3	40	140	0			
N-Nitrosodimethylamine	24.93	0.56	10	50.00	0	49.9	25	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1454-01CMS** SampType: **MS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **WELL-2** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 3:16** SeqNo: **2312677**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Nitrobenzene-d5	56.32		10	50.00	0	113	40	110	0			S
Surrogate: 2-Fluorobiphenyl	54.71		10	50.00	0	109	50	110	0			
Surrogate: Terphenyl-d14	59.90		10	50.00	0	120	50	135	0			
Surrogate: Phenol-d5	13.81		10	50.00	0	27.6	10	115	0			
Surrogate: 2-Fluorophenol	23.64		10	50.00	0	47.3	20	110	0			
Surrogate: 2,4,6-Tribromophenol	48.94		10	50.00	0	97.9	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1454-01CMSD** SampType: **MSD** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **WELL-2** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 3:42** SeqNo: **2312679**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	11.63	0.75	10	50.00	0	23.3	0	115	12.82	9.71	40	
Bis(2-chloroethyl)ether	45.22	0.75	10	50.00	0	90.4	35	110	49.14	8.31	40	
2-Chlorophenol	38.48	0.61	10	50.00	0	77.0	35	105	42.60	10.1	40	
1,3-Dichlorobenzene	46.77	0.71	10	50.00	0	93.5	30	100	50.79	8.24	40	
1,4-Dichlorobenzene	46.59	1.1	10	50.00	0	93.2	30	100	51.93	10.8	40	
1,2-Dichlorobenzene	47.43	0.84	10	50.00	0	94.9	35	100	51.88	8.98	40	
2-Methylphenol	32.21	0.96	10	50.00	0	64.4	40	110	34.18	5.94	40	
4-Methylphenol	27.91	1.4	10	50.00	0	55.8	30	110	30.28	8.17	40	
N-Nitroso-di-n-propylamine	53.60	0.63	10	50.00	0	107	35	130	55.04	2.64	40	
Hexachloroethane	46.12	0.55	10	50.00	0	92.2	30	95	51.95	11.9	40	
Nitrobenzene	49.76	1.6	10	50.00	0	99.5	45	110	52.15	4.68	40	
Isophorone	50.92	0.47	10	50.00	0	102	50	110	50.87	0.0928	40	
2-Nitrophenol	46.95	0.60	10	50.00	0	93.9	40	115	50.27	6.82	40	
2,4-Dimethylphenol	41.78	1.8	10	50.00	0	83.6	30	110	43.25	3.46	40	
2,4-Dichlorophenol	46.94	0.57	10	50.00	0	93.9	50	105	48.10	2.44	40	
1,2,4-Trichlorobenzene	45.44	0.93	10	50.00	0	90.9	35	105	47.89	5.24	40	
Naphthalene	49.48	0.96	10	50.00	0	99.0	40	100	51.66	4.3	40	
4-Chloroaniline	33.55	2.0	10	50.00	0	67.1	15	110	25.88	25.8	40	
Bis(2-chloroethoxy)methane	52.68	1.1	10	50.00	0	105	45	105	52.49	0.356	40	S
Hexachlorobutadiene	46.35	0.75	10	50.00	0	92.7	25	105	50.38	8.34	40	
4-Chloro-3-methylphenol	43.50	0.60	10	50.00	0	87.0	45	110	42.47	2.4	40	
2-Methylnaphthalene	50.25	0.94	10	50.00	0	100	45	105	51.78	3.01	40	
Hexachlorocyclopentadiene	41.03	1.0	10	50.00	0	82.1	27	147	38.82	5.54	40	
2,4,6-Trichlorophenol	49.06	0.53	10	50.00	0	98.1	50	115	50.49	2.87	40	
2,4,5-Trichlorophenol	50.15	0.26	20	50.00	0	100	50	110	48.58	3.17	40	
2-Chloronaphthalene	52.85	0.81	10	50.00	0	106	50	105	52.08	1.48	40	S
2-Nitroaniline	53.72	0.71	20	50.00	0	107	50	115	52.58	2.14	40	
Dimethylphthalate	55.84	0.37	10	50.00	2.087	108	25	125	55.38	0.825	40	
Acenaphthylene	56.05	0.42	10	50.00	0	112	50	105	52.32	6.89	40	S
2,6-Dinitrotoluene	54.90	0.52	10	50.00	0	110	50	115	53.41	2.76	40	
3-Nitroaniline	41.67	0.97	20	50.00	0	83.3	20	125	38.64	7.56	40	
Acenaphthene	54.95	0.65	10	50.00	0	110	45	110	52.98	3.64	40	
2,4-Dinitrophenol	28.90	3.5	20	50.00	0	57.8	15	140	39.36	30.7	40	
4-Nitrophenol	16.70	0.53	20	50.00	0	33.4	0	125	17.27	3.37	40	J
Dibenzofuran	55.39	0.52	10	50.00	0	111	55	105	53.57	3.35	40	S
2,4-Dinitrotoluene	57.23	0.41	10	50.00	0	114	50	120	58.02	1.39	40	
Diethylphthalate	54.25	0.45	10	50.00	0	109	40	120	55.13	1.6	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1454-01CMSD** SampType: **MSD** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **WELL-2** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 3:42** SeqNo: **2312679**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	54.65	0.41	10	50.00	0	109	50	110	52.44	4.13	40	
Fluorene	54.82	0.44	10	50.00	0	110	50	110	53.05	3.3	40	
4-Nitroaniline	56.86	0.96	20	50.00	0	114	35	120	54.67	3.92	40	
4,6-Dinitro-2-methylphenol	49.09	0.79	20	50.00	0	98.2	40	130	52.06	5.87	40	
N-Nitrosodiphenylamine	54.85	1.1	10	50.00	0	110	50	110	53.05	3.33	40	
4-Bromophenyl-phenylether	54.78	0.54	10	50.00	0	110	50	115	50.33	8.47	40	
Hexachlorobenzene	52.43	0.44	10	50.00	0	105	50	110	48.67	7.43	40	
Pentachlorophenol	23.51	1.7	20	50.00	0	47.0	40	115	30.04	24.4	40	
Phenanthrene	54.82	0.45	10	50.00	0	110	50	115	53.37	2.68	40	
Anthracene	56.18	0.48	10	50.00	0	112	55	110	53.91	4.11	40	S
Carbazole	55.25	0.64	10	50.00	0	110	50	115	55.64	0.719	40	
Di-n-butylphthalate	56.70	0.48	10	50.00	0	113	55	115	56.23	0.838	40	
Fluoranthene	55.57	0.33	10	50.00	0	111	55	115	56.59	1.82	40	
Pyrene	54.68	0.44	10	50.00	0	109	50	130	51.65	5.71	40	
Butylbenzylphthalate	56.16	0.32	10	50.00	0	112	45	115	53.21	5.4	40	
3,3´-Dichlorobenzidine	49.74	1.7	10	50.00	0	99.5	20	110	47.32	4.99	40	
Benzo(a)anthracene	59.81	0.40	10	50.00	0	120	55	110	58.58	2.08	40	S
Chrysene	57.95	0.42	10	50.00	0	116	55	110	57.15	1.39	40	S
Bis(2-ethylhexyl)phthalate	56.34	1.3	10	50.00	2.500	108	40	125	55.20	2.05	40	
Di-n-octylphthalate	57.55	0.47	10	50.00	0	115	35	135	53.79	6.76	40	
Benzo(b)fluoranthene	55.01	0.94	10	50.00	0	110	45	120	54.80	0.383	40	
Benzo(k)fluoranthene	57.17	1.2	10	50.00	0	114	45	125	51.61	10.2	40	
Benzo(a)pyrene	55.23	1.2	10	50.00	0	110	55	110	53.09	3.95	40	S
Indeno(1,2,3-cd)pyrene	48.00	0.38	10	50.00	0	96.0	45	125	47.70	0.626	40	
Dibenzo(a,h)anthracene	51.75	0.44	10	50.00	0	103	40	125	54.06	4.37	40	
Benzo(g,h,i)perylene	51.28	0.39	10	50.00	0	103	40	125	51.47	0.373	40	
1,1´-Biphenyl	54.28	0.65	10	50.00	0	109	55	108	52.07	4.15	40	S
3-Methylphenol + 4-Methylphenol	27.91	1.4	10	50.00	0	55.8	30	110	30.28	8.17	40	
Acetophenone	51.35	0.51	10	50.00	0	103	56	145	56.36	9.29	40	
Aniline	15.76	1.3	10	50.00	0	31.5	10	150	11.57	30.7	40	
Azobenzene	58.34	0.71	10	50.00	0	117	46	117	55.66	4.69	40	
Benzidine	31.18	1.8	10	50.00	0	62.4	10	150	2.124	174	40	R
Benzoic acid	ND	2.0	20	50.00	0	0	0	125	2.447	0	40	
Benzyl alcohol	32.22	0.87	10	50.00	0	64.4	30	110	36.89	13.5	40	
Bis(2-chloroisopropyl)ether	43.49	1.0	10	50.00	0	87.0	40	140	48.17	10.2	30	
N-Nitrosodimethylamine	21.68	0.56	10	50.00	0	43.4	25	110	24.93	14	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1454-01CMSD** SampType: **MSD** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **WELL-2** Batch ID: **83155** Units: **ug/L** Analysis Date: **10/03/15 3:42** SeqNo: **2312679**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Nitrobenzene-d5	53.57		10	50.00	0	107	40	110	0			
Surrogate: 2-Fluorobiphenyl	53.80		10	50.00	0	108	50	110	0			
Surrogate: Terphenyl-d14	60.77		10	50.00	0	122	50	135	0			
Surrogate: Phenol-d5	11.93		10	50.00	0	23.9	10	115	0			
Surrogate: 2-Fluorophenol	20.94		10	50.00	0	41.9	20	110	0			
Surrogate: 2,4,6-Tribromophenol	47.87		10	50.00	0	95.7	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2 **Project:** Barrington, RI site
Lab ID: P1454-01 **Collection Date:** 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_W**
alpha-BHC	ND		0.050	ug/L	1	10/02/2015 6:01	83156
beta-BHC	ND		0.050	ug/L	1	10/02/2015 6:01	83156
delta-BHC	ND		0.050	ug/L	1	10/02/2015 6:01	83156
gamma-BHC (Lindane)	ND		0.050	ug/L	1	10/02/2015 6:01	83156
Heptachlor	ND		0.050	ug/L	1	10/02/2015 6:01	83156
Aldrin	ND		0.050	ug/L	1	10/02/2015 6:01	83156
Heptachlor epoxide	ND		0.050	ug/L	1	10/02/2015 6:01	83156
Endosulfan I	ND		0.050	ug/L	1	10/02/2015 6:01	83156
Dieldrin	ND		0.10	ug/L	1	10/02/2015 6:01	83156
4,4´-DDE	ND		0.10	ug/L	1	10/02/2015 6:01	83156
Endrin	ND		0.10	ug/L	1	10/02/2015 6:01	83156
Endosulfan II	ND		0.10	ug/L	1	10/02/2015 6:01	83156
4,4´-DDD	ND		0.10	ug/L	1	10/02/2015 6:01	83156
Endosulfan sulfate	ND		0.10	ug/L	1	10/02/2015 6:01	83156
4,4´-DDT	ND		0.10	ug/L	1	10/02/2015 6:01	83156
Methoxychlor	ND		0.50	ug/L	1	10/02/2015 6:01	83156
Endrin ketone	ND		0.10	ug/L	1	10/02/2015 6:01	83156
Endrin aldehyde	ND		0.10	ug/L	1	10/02/2015 6:01	83156
alpha-Chlordane	ND		0.050	ug/L	1	10/02/2015 6:01	83156
gamma-Chlordane	ND		0.050	ug/L	1	10/02/2015 6:01	83156
Toxaphene	ND		5.0	ug/L	1	10/02/2015 6:01	83156
Surrogate: Tetrachloro-m-xylene	59.7		25-140	%REC	1	10/02/2015 6:01	83156
Surrogate: Decachlorobiphenyl	65.5		30-135	%REC	1	10/02/2015 6:01	83156

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **MB-83156** SampType: **MBLK** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001A**
Client ID: **MB-83156** Batch ID: **83156** Units: **ug/L** Analysis Date: **10/01/15 23:56** SeqNo: **2312019**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.0018	0.050									
beta-BHC	ND	0.0020	0.050									
delta-BHC	ND	0.0027	0.050									
gamma-BHC (Lindane)	ND	0.0019	0.050									
Heptachlor	ND	0.0039	0.050									
Aldrin	ND	0.0043	0.050									
Heptachlor epoxide	ND	0.0028	0.050									
Endosulfan I	ND	0.0029	0.050									
Dieldrin	ND	0.0056	0.10									
4,4´-DDE	ND	0.0056	0.10									
Endrin	ND	0.0035	0.10									
Endosulfan II	ND	0.0031	0.10									
4,4´-DDD	ND	0.0064	0.10									
Endosulfan sulfate	ND	0.0045	0.10									
4,4´-DDT	ND	0.0070	0.10									
Methoxychlor	ND	0.031	0.50									
Endrin ketone	ND	0.0046	0.10									
Endrin aldehyde	ND	0.015	0.10									
alpha-Chlordane	ND	0.0024	0.050									
gamma-Chlordane	ND	0.0026	0.050									
Toxaphene	ND	0.14	5.0									
Surrogate: Decachlorobiphenyl	0.7133		0.10	1.200	0	59.4	30	135	0			

Sample ID: **MB-83156** SampType: **MBLK** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001B**
Client ID: **MB-83156** Batch ID: **83156** Units: **ug/L** Analysis Date: **10/01/15 23:56** SeqNo: **2312070**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	0.3297		0.050	0.6000	0	54.9	25	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCS-83156** SampType: **LCS** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001A**
Client ID: **LCS-83156** Batch ID: **83156** Units: **ug/L** Analysis Date: **10/02/15 0:11** SeqNo: **2312020**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	0.1485	0.0018	0.050	0.2000	0	74.2	60	130	0			
beta-BHC	0.1564	0.0020	0.050	0.2000	0	78.2	65	125	0			
delta-BHC	0.1485	0.0027	0.050	0.2000	0	74.2	45	135	0			
gamma-BHC (Lindane)	0.1534	0.0019	0.050	0.2000	0	76.7	25	135	0			
Heptachlor	0.1567	0.0039	0.050	0.2000	0	78.4	40	130	0			
Aldrin	0.1431	0.0043	0.050	0.2000	0	71.6	25	140	0			
Endosulfan I	0.1440	0.0029	0.050	0.2000	0	72.0	50	110	0			
Dieldrin	0.3076	0.0056	0.10	0.4000	0	76.9	60	130	0			
4,4´-DDE	0.3019	0.0056	0.10	0.4000	0	75.5	35	140	0			
Endrin	0.3613	0.0035	0.10	0.4000	0	90.3	55	135	0			
Endosulfan II	0.2886	0.0031	0.10	0.4000	0	72.2	30	130	0			
4,4´-DDD	0.2957	0.0064	0.10	0.4000	0	73.9	25	150	0			
Endosulfan sulfate	0.3032	0.0045	0.10	0.4000	0	75.8	55	135	0			
4,4´-DDT	0.3343	0.0070	0.10	0.4000	0	83.6	45	140	0			
Methoxychlor	1.737	0.031	0.50	2.000	0	86.8	55	150	0			
Endrin ketone	0.3153	0.0046	0.10	0.4000	0	78.8	75	125	0			
alpha-Chlordane	0.1478	0.0024	0.050	0.2000	0	73.9	65	125	0			
Surrogate: Decachlorobiphenyl	0.8674		0.10	1.200	0	72.3	30	135	0			

Sample ID: **LCS-83156** SampType: **LCS** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001B**
Client ID: **LCS-83156** Batch ID: **83156** Units: **ug/L** Analysis Date: **10/02/15 0:11** SeqNo: **2312071**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptachlor epoxide	0.1515	0.0028	0.050	0.2000	0	75.7	60	130	0			
Endrin aldehyde	0.2471	0.015	0.10	0.4000	0	61.8	55	135	0			
gamma-Chlordane	0.1485	0.0026	0.050	0.2000	0	74.2	60	125	0			
Surrogate: Tetrachloro-m-xylene	0.3680		0.050	0.6000	0	61.3	25	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **P1454-01CMS** SampType: **MS** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001A**
Client ID: **WELL-2** Batch ID: **83156** Units: **ug/L** Analysis Date: **10/02/15 6:17** SeqNo: **2312040**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	0.1471	0.0018	0.050	0.2000	0	73.6	60	130	0			
delta-BHC	0.1387	0.0027	0.050	0.2000	0	69.3	45	135	0			
gamma-BHC (Lindane)	0.1528	0.0019	0.050	0.2000	0	76.4	25	135	0			
Heptachlor	0.1624	0.0039	0.050	0.2000	0	81.2	40	130	0			
Aldrin	0.1380	0.0043	0.050	0.2000	0	69.0	25	140	0			
Endosulfan I	0.1372	0.0029	0.050	0.2000	0	68.6	50	110	0			
Dieldrin	0.2885	0.0056	0.10	0.4000	0	72.1	60	130	0			
4,4´-DDE	0.2799	0.0056	0.10	0.4000	0	70.0	35	140	0			
Endrin	0.3459	0.0035	0.10	0.4000	0	86.5	55	135	0			
Endosulfan II	0.2722	0.0031	0.10	0.4000	0	68.1	30	130	0			
4,4´-DDD	0.2671	0.0064	0.10	0.4000	0	66.8	25	150	0			
Endosulfan sulfate	0.2579	0.0045	0.10	0.4000	0	64.5	55	135	0			
4,4´-DDT	0.3184	0.0070	0.10	0.4000	0	79.6	45	140	0			
Methoxychlor	1.473	0.031	0.50	2.000	0	73.6	55	150	0			
Endrin ketone	0.2723	0.0046	0.10	0.4000	0	68.1	75	125	0			S
alpha-Chlordane	0.1364	0.0024	0.050	0.2000	0	68.2	65	125	0			
Surrogate: Decachlorobiphenyl	0.7057		0.10	1.200	0	58.8	30	135	0			

Sample ID: **P1454-01CMS** SampType: **MS** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001B**
Client ID: **WELL-2** Batch ID: **83156** Units: **ug/L** Analysis Date: **10/02/15 6:17** SeqNo: **2312091**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
beta-BHC	0.1582	0.0020	0.050	0.2000	0	79.1	65	125	0			
Heptachlor epoxide	0.1472	0.0028	0.050	0.2000	0	73.6	60	130	0			
Endrin aldehyde	0.2812	0.015	0.10	0.4000	0	70.3	55	135	0			
gamma-Chlordane	0.1446	0.0026	0.050	0.2000	0	72.3	60	125	0			
Surrogate: Tetrachloro-m-xylene	0.3730		0.050	0.6000	0	62.2	25	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **P1454-01CMSD** SampType: **MSD** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001A**
Client ID: **WELL-2** Batch ID: **83156** Units: **ug/L** Analysis Date: **10/02/15 6:32** SeqNo: **2312041**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	0.1441	0.0018	0.050	0.2000	0	72.1	60	130	0.1471	2.04	30	
delta-BHC	0.1399	0.0027	0.050	0.2000	0	70.0	45	135	0.1387	0.891	30	
gamma-BHC (Lindane)	0.1510	0.0019	0.050	0.2000	0	75.5	25	135	0.1528	1.18	30	
Heptachlor	0.1604	0.0039	0.050	0.2000	0	80.2	40	130	0.1624	1.28	30	
Aldrin	0.1345	0.0043	0.050	0.2000	0	67.2	25	140	0.1380	2.55	30	
Endosulfan I	0.1346	0.0029	0.050	0.2000	0	67.3	50	110	0.1372	1.9	30	
Dieldrin	0.2832	0.0056	0.10	0.4000	0	70.8	60	130	0.2885	1.84	30	
4,4´-DDE	0.2744	0.0056	0.10	0.4000	0	68.6	35	140	0.2799	1.97	30	
Endrin	0.3381	0.0035	0.10	0.4000	0	84.5	55	135	0.3459	2.28	30	
Endosulfan II	0.2669	0.0031	0.10	0.4000	0	66.7	30	130	0.2722	1.96	30	
4,4´-DDD	0.2602	0.0064	0.10	0.4000	0	65.0	25	150	0.2671	2.62	30	
Endosulfan sulfate	0.2576	0.0045	0.10	0.4000	0	64.4	55	135	0.2579	0.11	30	
4,4´-DDT	0.3241	0.0070	0.10	0.4000	0	81.0	45	140	0.3184	1.76	30	
Methoxychlor	1.486	0.031	0.50	2.000	0	74.3	55	150	1.473	0.931	30	
Endrin ketone	0.2701	0.0046	0.10	0.4000	0	67.5	75	125	0.2723	0.792	30	S
alpha-Chlordane	0.1338	0.0024	0.050	0.2000	0	66.9	65	125	0.1364	1.93	30	
Surrogate: Decachlorobiphenyl	0.7192		0.10	1.200	0	59.9	30	135	0			

Sample ID: **P1454-01CMSD** SampType: **MSD** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001B**
Client ID: **WELL-2** Batch ID: **83156** Units: **ug/L** Analysis Date: **10/02/15 6:32** SeqNo: **2312092**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
beta-BHC	0.1521	0.0020	0.050	0.2000	0	76.1	65	125	0.1582	3.95	30	
Heptachlor epoxide	0.1463	0.0028	0.050	0.2000	0	73.2	60	130	0.1472	0.556	30	
Endrin aldehyde	0.2819	0.015	0.10	0.4000	0	70.5	55	135	0.2812	0.264	30	
gamma-Chlordane	0.1437	0.0026	0.050	0.2000	0	71.8	60	125	0.1446	0.632	30	
Surrogate: Tetrachloro-m-xylene	0.3673		0.050	0.6000	0	61.2	25	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2
Lab ID: P1454-01
Project: Barrington, RI site
Collection Date: 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_W**
Aroclor-1016	ND		1.0	ug/L	1	10/05/2015 16:17	83157
Aroclor-1221	ND		1.0	ug/L	1	10/05/2015 16:17	83157
Aroclor-1232	ND		1.0	ug/L	1	10/05/2015 16:17	83157
Aroclor-1242	ND		1.0	ug/L	1	10/05/2015 16:17	83157
Aroclor-1248	ND		1.0	ug/L	1	10/05/2015 16:17	83157
Aroclor-1254	ND		1.0	ug/L	1	10/05/2015 16:17	83157
Aroclor-1260	ND		1.0	ug/L	1	10/05/2015 16:17	83157
Surrogate: Tetrachloro-m-xylene	79.4		34-137	%REC	1	10/05/2015 16:17	83157
Surrogate: Decachlorobiphenyl	83.7		40-135	%REC	1	10/05/2015 16:17	83157

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_W

SW846 8082A -- PCB by GC-ECD

Sample ID: **MB-83157** SampType: **MBLK** TestCode: **SW8082_W** Prep Date: **09/30/15 17:48** Run ID: **E2_151005A**
Client ID: **MB-83157** Batch ID: **83157** Units: **ug/L** Analysis Date: **10/05/15 15:48** SeqNo: **2313061**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	0.12	1.0									
Aroclor-1221	ND	0.095	1.0									
Aroclor-1232	ND	0.19	1.0									
Aroclor-1242	ND	0.030	1.0									
Aroclor-1248	ND	0.063	1.0									
Aroclor-1254	ND	0.20	1.0									
Aroclor-1260	ND	0.11	1.0									

Sample ID: **MB-83157** SampType: **MBLK** TestCode: **SW8082_W** Prep Date: **09/30/15 17:48** Run ID: **E2_151005B**
Client ID: **MB-83157** Batch ID: **83157** Units: **ug/L** Analysis Date: **10/05/15 15:48** SeqNo: **2313097**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	0.4506		0.050	0.6000	0	75.1	34	137	0			
Surrogate: Decachlorobiphenyl	0.9626		0.10	1.200	0	80.2	40	135	0			

Sample ID: **LCS-83157** SampType: **LCS** TestCode: **SW8082_W** Prep Date: **09/30/15 17:48** Run ID: **E2_151005B**
Client ID: **LCS-83157** Batch ID: **83157** Units: **ug/L** Analysis Date: **10/05/15 16:03** SeqNo: **2313098**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	3.210	0.12	1.0	4.000	0	80.2	25	145	0			
Aroclor-1260	3.211	0.11	1.0	4.000	0	80.3	30	145	0			
Surrogate: Tetrachloro-m-xylene	0.4806		0.050	0.6000	0	80.1	34	137	0			
Surrogate: Decachlorobiphenyl	1.020		0.10	1.200	0	85.0	40	135	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_W

SW846 8082A -- PCB by GC-ECD

Sample ID: **P1454-01CMS** SampType: **MS** TestCode: **SW8082_W** Prep Date: **09/30/15 17:48** Run ID: **E2_151005B**
Client ID: **WELL-2** Batch ID: **83157** Units: **ug/L** Analysis Date: **10/05/15 16:31** SeqNo: **2313100**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	3.296	0.12	1.0	4.000	0	82.4	25	145	0			
Aroclor-1260	3.353	0.11	1.0	4.000	0	83.8	30	145	0			
Surrogate: Tetrachloro-m-xylene	0.5065		0.050	0.6000	0	84.4	34	137	0			
Surrogate: Decachlorobiphenyl	1.078		0.10	1.200	0	89.9	40	135	0			

Sample ID: **P1454-01CMSD** SampType: **MSD** TestCode: **SW8082_W** Prep Date: **09/30/15 17:48** Run ID: **E2_151005B**
Client ID: **WELL-2** Batch ID: **83157** Units: **ug/L** Analysis Date: **10/05/15 16:46** SeqNo: **2313101**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	3.546	0.12	1.0	4.000	0	88.7	25	145	3.296	7.31	30	
Aroclor-1260	3.631	0.11	1.0	4.000	0	90.8	30	145	3.353	7.95	30	
Surrogate: Tetrachloro-m-xylene	0.5128		0.050	0.6000	0	85.5	34	137	0			
Surrogate: Decachlorobiphenyl	1.060		0.10	1.200	0	88.3	40	135	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2
Lab ID: P1454-01
Project: Barrington, RI site
Collection Date: 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8011 -- EDB and DBCP by GC-ECD							**SW8011_W**
1,2-Dibromoethane	ND		0.021	ug/L	1	10/06/2015 19:49	83213
1,2-Dibromo-3-chloropropane	ND		0.021	ug/L	1	10/06/2015 19:49	83213
Surrogate: 1,1,1,2-Tetrachloroethane	102		60-140	%REC	1	10/06/2015 19:49	83213

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8011_W

SW846 8011 -- EDB and DBCP by GC-ECD

Sample ID: **MB-83213** SampType: **MBLK** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006A**
Client ID: **MB-83213** Batch ID: **83213** Units: **ug/L** Analysis Date: **10/06/15 19:02** SeqNo: **2313800**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.0043	0.020									
1,2-Dibromo-3-chloropropane	ND	0.0028	0.020									

Sample ID: **MB-83213** SampType: **MBLK** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006B**
Client ID: **MB-83213** Batch ID: **83213** Units: **ug/L** Analysis Date: **10/06/15 19:02** SeqNo: **2313855**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 1,1,1,2-Tetrachloroethane	0.07190		0.020	0.08000	0	89.9	60	140	0			

Sample ID: **LCS-83213** SampType: **LCS** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006B**
Client ID: **LCS-83213** Batch ID: **83213** Units: **ug/L** Analysis Date: **10/06/15 19:26** SeqNo: **2313858**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.06387	0.0043	0.020	0.08000	0	79.8	70	130	0			
1,2-Dibromo-3-chloropropane	0.07124	0.0028	0.020	0.08000	0	89.0	70	130	0			
Surrogate: 1,1,1,2-Tetrachloroethane	0.07777		0.020	0.08000	0	97.2	60	140	0			

Sample ID: **P1454-01BMS** SampType: **MS** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006B**
Client ID: **WELL-2** Batch ID: **83213** Units: **ug/L** Analysis Date: **10/06/15 20:12** SeqNo: **2313862**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.06772	0.0044	0.020	0.08187	0	82.7	70	130	0			
1,2-Dibromo-3-chloropropane	0.07090	0.0029	0.020	0.08187	0	86.6	70	130	0			
Surrogate: 1,1,1,2-Tetrachloroethane	0.08293		0.020	0.08187	0	101	60	140	0			

Sample ID: **P1454-01BMSD** SampType: **MSD** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006B**
Client ID: **WELL-2** Batch ID: **83213** Units: **ug/L** Analysis Date: **10/06/15 20:35** SeqNo: **2313864**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.07919	0.0044	0.021	0.08240	0	96.1	70	130	0.06772	15.6	30	
1,2-Dibromo-3-chloropropane	0.08393	0.0029	0.021	0.08240	0	102	70	130	0.07090	16.8	30	
Surrogate: 1,1,1,2-Tetrachloroethane	0.09303		0.021	0.08240	0	113	60	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8011_W

SW846 8011 -- EDB and DBCP by GC-ECD

Qualifiers: ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2
Lab ID: P1454-01
Project: Barrington, RI site
Collection Date: 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_W**
Extractable Total Petroleum Hydrocarbon	ND		0.20	mg/L	1	10/06/2015 3:47	83158
Surrogate: ortho-Terphenyl	76.6		50-150	%REC	1	10/06/2015 3:47	83158

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

TPH_W

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID: **MB-83158** SampType: **MBLK** TestCode: **TPH_W** Prep Date: **09/30/15 17:51** Run ID: **F1_151005A**
Client ID: **MB-83158** Batch ID: **83158** Units: **mg/L** Analysis Date: **10/06/15 3:02** SeqNo: **2313145**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	ND	0.018	0.20									
Surrogate: ortho-Terphenyl	0.08689		0.025	0.1000	0	86.9	50	150	0			

Sample ID: **LCS-83158** SampType: **LCS** TestCode: **TPH_W** Prep Date: **09/30/15 17:51** Run ID: **F1_151005A**
Client ID: **LCS-83158** Batch ID: **83158** Units: **mg/L** Analysis Date: **10/06/15 3:17** SeqNo: **2313146**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	5.726	0.018	0.20	5.000	0	115	60	140	0			
Surrogate: ortho-Terphenyl	0.1146		0.025	0.1000	0	115	50	150	0			

Sample ID: **P1454-01CMS** SampType: **MS** TestCode: **TPH_W** Prep Date: **09/30/15 17:51** Run ID: **F1_151005A**
Client ID: **WELL-2** Batch ID: **83158** Units: **mg/L** Analysis Date: **10/06/15 4:02** SeqNo: **2313148**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	2.766	0.018	0.20	5.000	0.1621	52.1	50	150	0			
Surrogate: ortho-Terphenyl	0.06209		0.025	0.1000	0	62.1	50	150	0			

Sample ID: **P1454-01CMSD** SampType: **MSD** TestCode: **TPH_W** Prep Date: **09/30/15 17:51** Run ID: **F1_151005A**
Client ID: **WELL-2** Batch ID: **83158** Units: **mg/L** Analysis Date: **10/06/15 4:17** SeqNo: **2313149**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	5.944	0.018	0.20	5.000	0.1621	116	50	150	2.766	73	30	R
Surrogate: ortho-Terphenyl	0.1114		0.025	0.1000	0	111	50	150	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2
Lab ID: P1454-01
Project: Barrington, RI site
Collection Date: 09/29/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony	ND		2.0	ug/L	1	10/06/2015 12:57	83174
Arsenic	0.23	J	2.0	ug/L	1	10/06/2015 12:57	83174
Barium	8.0	J	10	ug/L	1	10/06/2015 12:57	83174
Beryllium	ND		1.0	ug/L	1	10/06/2015 12:57	83174
Cadmium	0.77	J	1.0	ug/L	1	10/06/2015 12:57	83174
Chromium	ND		2.0	ug/L	1	10/06/2015 12:57	83174
Copper	1.1	J	2.0	ug/L	1	10/06/2015 12:57	83174
Lead	0.19	J	1.0	ug/L	1	10/06/2015 12:57	83174
Manganese	4500		2.0	ug/L	1	10/06/2015 12:57	83174
Nickel	9.5		1.0	ug/L	1	10/06/2015 12:57	83174
Selenium	ND		5.0	ug/L	1	10/06/2015 12:57	83174
Silver	ND		1.0	ug/L	1	10/06/2015 12:57	83174
Thallium	0.38	BJ	1.0	ug/L	1	10/06/2015 12:57	83174
Vanadium	ND		5.0	ug/L	1	10/06/2015 12:57	83174
Zinc	24		2.0	ug/L	1	10/06/2015 12:57	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury	ND		0.20	µg/L	1	10/04/2015 14:12	83182

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-2-F
Project: Barrington, RI site
Lab ID: P1454-03
Collection Date:

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony -- Dissolved	ND		2.0	ug/L	1	10/06/2015 13:17	83174
Arsenic -- Dissolved	0.22	J	2.0	ug/L	1	10/06/2015 13:17	83174
Barium -- Dissolved	8.1	J	10	ug/L	1	10/06/2015 13:17	83174
Beryllium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:17	83174
Cadmium -- Dissolved	0.63	J	1.0	ug/L	1	10/06/2015 13:17	83174
Chromium -- Dissolved	3.4		2.0	ug/L	1	10/06/2015 13:17	83174
Copper -- Dissolved	1.0	J	2.0	ug/L	1	10/06/2015 13:17	83174
Lead -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:17	83174
Manganese -- Dissolved	3500		2.0	ug/L	1	10/06/2015 13:17	83174
Nickel -- Dissolved	11		1.0	ug/L	1	10/06/2015 13:17	83174
Selenium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 13:17	83174
Silver -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:17	83174
Thallium -- Dissolved	0.068	BJ	1.0	ug/L	1	10/06/2015 13:17	83174
Vanadium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 13:17	83174
Zinc -- Dissolved	22		2.0	ug/L	1	10/06/2015 13:17	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury -- Dissolved	ND		0.20	µg/L	1	10/04/2015 14:20	83182

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6020_W

SW846 6020A -- Metals by ICP-MS

Sample ID: **MB-83174** SampType: **MBLK** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **MB-83174** Batch ID: **83174** Units: **ug/L** Analysis Date: **10/06/15 12:47** SeqNo: **2313603**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.20	2.0									
Arsenic	ND	0.19	2.0									
Barium	ND	1.3	10									
Beryllium	ND	0.072	1.0									
Cadmium	ND	0.084	1.0									
Chromium	ND	0.16	2.0									
Copper	ND	0.23	2.0									
Lead	ND	0.068	1.0									
Manganese	ND	0.83	2.0									
Nickel	ND	0.17	1.0									
Selenium	ND	0.19	5.0									
Silver	ND	0.022	1.0									
Thallium	0.07055	0.047	1.0									J
Vanadium	ND	0.61	5.0									
Zinc	ND	0.73	2.0									

Sample ID: **LCS-83174** SampType: **LCS** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **LCS-83174** Batch ID: **83174** Units: **ug/L** Analysis Date: **10/06/15 12:52** SeqNo: **2313604**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	99.38	0.20	2.0	100.0	0	99.4	80	120	0			
Arsenic	39.67	0.19	2.0	40.00	0	99.2	80	120	0			
Barium	1954	1.3	10	2000	0	97.7	80	120	0			
Beryllium	51.18	0.072	1.0	50.00	0	102	80	120	0			
Cadmium	49.37	0.084	1.0	50.00	0	98.7	80	120	0			
Chromium	195.2	0.16	2.0	200.0	0	97.6	80	120	0			
Copper	244.0	0.23	2.0	250.0	0	97.6	80	120	0			
Lead	19.79	0.068	1.0	20.00	0	99.0	80	120	0			
Manganese	489.9	0.83	2.0	500.0	0	98.0	80	120	0			
Nickel	507.9	0.17	1.0	500.0	0	102	80	120	0			
Selenium	50.77	0.19	5.0	50.00	0	102	80	120	0			
Silver	49.38	0.022	1.0	50.00	0	98.8	80	120	0			
Thallium	43.21	0.047	1.0	50.00	0	86.4	80	120	0			B
Vanadium	491.9	0.61	5.0	500.0	0	98.4	80	120	0			
Zinc	491.8	0.73	2.0	500.0	0	98.4	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6020_W

SW846 6020A -- Metals by ICP-MS

Sample ID: **P1454-01DDUP** SampType: **DUP** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **WELL-2** Batch ID: **83174** Units: **ug/L** Analysis Date: **10/06/15 13:02** SeqNo: **2313606**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.20	2.0	0	0	0	0	0	0	0	20	
Arsenic	0.3754	0.19	2.0	0	0	0	0	0	0.2317	47.3	20	JR
Barium	8.018	1.3	10	0	0	0	0	0	7.950	0.855	20	J
Beryllium	ND	0.072	1.0	0	0	0	0	0	0	0	20	
Cadmium	0.8127	0.084	1.0	0	0	0	0	0	0.7728	5.03	20	J
Chromium	ND	0.16	2.0	0	0	0	0	0	0	0	20	
Copper	1.083	0.23	2.0	0	0	0	0	0	1.064	1.71	20	J
Lead	0.1930	0.068	1.0	0	0	0	0	0	0.1873	2.99	20	J
Manganese	4661	0.83	2.0	0	0	0	0	0	4523	3.01	20	
Nickel	9.887	0.17	1.0	0	0	0	0	0	9.549	3.48	20	
Selenium	ND	0.19	5.0	0	0	0	0	0	0	0	20	
Silver	ND	0.022	1.0	0	0	0	0	0	0	0	20	
Thallium	0.1158	0.047	1.0	0	0	0	0	0	0.3801	107	20	BJR
Vanadium	ND	0.61	5.0	0	0	0	0	0	0	0	20	
Zinc	25.07	0.73	2.0	0	0	0	0	0	24.12	3.84	20	

Sample ID: **P1454-01DMS** SampType: **MS** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **WELL-2** Batch ID: **83174** Units: **ug/L** Analysis Date: **10/06/15 13:07** SeqNo: **2313607**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	98.94	0.20	2.0	100.0	0	98.9	75	125	0			
Arsenic	39.46	0.19	2.0	40.00	0.2317	98.1	75	125	0			
Barium	1986	1.3	10	2000	7.950	98.9	75	125	0			
Beryllium	48.05	0.072	1.0	50.00	0	96.1	75	125	0			
Cadmium	48.67	0.084	1.0	50.00	0.7728	95.8	75	125	0			
Chromium	188.6	0.16	2.0	200.0	0	94.3	75	125	0			
Copper	240.9	0.23	2.0	250.0	1.064	95.9	75	125	0			
Lead	20.47	0.068	1.0	20.00	0.1873	101	75	125	0			
Manganese	4975	0.83	2.0	500.0	4523	90.3	75	125	0			
Nickel	491.0	0.17	1.0	500.0	9.549	96.3	75	125	0			
Selenium	48.60	0.19	5.0	50.00	0	97.2	75	125	0			
Silver	48.06	0.022	1.0	50.00	0	96.1	75	125	0			
Thallium	44.36	0.047	1.0	50.00	0.3801	88.0	75	125	0			B
Vanadium	481.7	0.61	5.0	500.0	0	96.3	75	125	0			
Zinc	498.5	0.73	2.0	500.0	24.12	94.9	75	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6020_W

SW846 6020A -- Metals by ICP-MS

Sample ID: **P1454-01DSD** SampType: **SD** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **WELL-2** Batch ID: **83174** Units: **ug/L** Analysis Date: **10/06/15 13:12** SeqNo: **2313608**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	1.0	10	0	0	0	0	0	0	0	10	
Arsenic	ND	0.95	10	0	0	0	0	0	0.2317	0	10	
Barium	8.048	6.5	50	0	0	0	0	0	7.950	1.23	10	J
Beryllium	ND	0.36	5.0	0	0	0	0	0	0	0	10	
Cadmium	0.6936	0.42	5.0	0	0	0	0	0	0.7728	10.8	10	JR
Chromium	1.098	0.80	10	0	0	0	0	0	0	200	10	JR
Copper	ND	1.2	10	0	0	0	0	0	1.064	0	10	
Lead	ND	0.34	5.0	0	0	0	0	0	0.1873	0	10	
Manganese	4613	4.2	10	0	0	0	0	0	4523	1.97	10	
Nickel	9.754	0.85	5.0	0	0	0	0	0	9.549	2.12	10	
Selenium	ND	0.95	25	0	0	0	0	0	0	0	10	
Silver	ND	0.11	5.0	0	0	0	0	0	0	0	10	
Thallium	1.524	0.24	5.0	0	0	0	0	0	0.3801	120	10	BJR
Vanadium	ND	3.1	25	0	0	0	0	0	0	0	10	
Zinc	24.85	3.7	10	0	0	0	0	0	24.12	2.96	10	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1454
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7470

SW846 7470A -- Mercury by FIA

Sample ID: **MB-83182** SampType: **MBLK** TestCode: **SW7470** Prep Date: **10/02/15 9:00** Run ID: **FIMS2_151004A**
Client ID: **MB-83182** Batch ID: **83182** Units: **µg/L** Analysis Date: **10/04/15 13:57** SeqNo: **2312108**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.028	0.20									

Sample ID: **LCS-83182** SampType: **LCS** TestCode: **SW7470** Prep Date: **10/02/15 9:00** Run ID: **FIMS2_151004A**
Client ID: **LCS-83182** Batch ID: **83182** Units: **µg/L** Analysis Date: **10/04/15 13:58** SeqNo: **2312109**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.644	0.028	0.20	4.550	0	102	80	120	0			

Sample ID: **P1454-01DDUP** SampType: **DUP** TestCode: **SW7470** Prep Date: **10/02/15 9:00** Run ID: **FIMS2_151004A**
Client ID: **WELL-2** Batch ID: **83182** Units: **µg/L** Analysis Date: **10/04/15 14:17** SeqNo: **2312120**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.028	0.20	0	0	0	0	0	0	0	20	

Sample ID: **P1454-01DMS** SampType: **MS** TestCode: **SW7470** Prep Date: **10/02/15 9:00** Run ID: **FIMS2_151004A**
Client ID: **WELL-2** Batch ID: **83182** Units: **µg/L** Analysis Date: **10/04/15 14:18** SeqNo: **2312121**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.320	0.028	0.20	4.550	0	94.9	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

eurofins | Spectrum Analytical

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Report Date:
12-Oct-15 12:51

Laboratory Report

Eurofins Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Edward Lawler

Project: Barrington, RI Site
Project #: P1454

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC13149-01	WELL-2	Aqueous	29-Sep-15 13:10	02-Oct-15 18:50

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

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:

June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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

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

CASE NARRATIVE:

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

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

The samples were received 3.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	Eurofins Spectrum Analytical, Inc. - RI
Project:	Barrington, RI Site / P1454
Work Order:	SC13149
Sample(s) received on:	10/2/2015

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

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: **Client ID:**

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method

No hits detected.

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WELL-2 SC13149-01	P1454	Aqueous	29-Sep-15 13:10	02-Oct-15

CAS No.	*Analyte(s)*	*Result*	*Flag*	*Units*	**RDL*	*MDL*	*Dilution*	*Method Ref.*	*Prepared*	*Analyzed*	*Analyst*	*Batch*	*Cert.*
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00480	U	mg/l	0.00500	0.00480	1	EPA 335.4 / SW846 9012B	09-Oct-15	10-Oct-15	rlt	1519282	X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1519282 - General Preparation										
Blank (1519282-BLK1)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	< 0.00480	U	mg/l	0.00480						
Blank (1519282-BLK2)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	< 0.00480	U	mg/l	0.00480						
LCS (1519282-BS1)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.194**		mg/l	0.00480	0.200		97	90-110		
LCS (1519282-BS2)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.201**		mg/l	0.00480	0.200		100	90-110		
Calibration Blank (1519282-CCB1)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.00**	U	mg/l							
Calibration Blank (1519282-CCB2)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.00**	U	mg/l							
Calibration Blank (1519282-CCB3)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.00**	U	mg/l							
Calibration Check (1519282-CCV1)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.329**		mg/l	0.00480	0.300		110	90-110		
Calibration Check (1519282-CCV2)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.314**		mg/l	0.00480	0.300		105	90-110		
Calibration Check (1519282-CCV3)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.321**		mg/l	0.00480	0.300		107	90-110		
Duplicate (1519282-DUP1)			**Source: SC13149-01**			Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	< 0.00480	U	mg/l	0.00480		BRL				20
Matrix Spike (1519282-MS1)			**Source: SC13149-01**			Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.101**		mg/l	0.00480	0.100	BRL	101	90-110		
Matrix Spike Dup (1519282-MSD1)			**Source: SC13149-01**			Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.105**		mg/l	0.00480	0.100	BRL	105	90-110	3	20
Reference (1519282-SRM1)						Prepared: 09-Oct-15	Analyzed: 10-Oct-15			
Cyanide (total)	**0.297**		mg/l	0.00480	0.290		103	75.7-123		

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

Validated by:
Kimberly LaPlante

SC 13149e

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1454
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/12/2015
FAX Due Date : 10/7/2015
Report To : Edward A Lawler
Purchase Order : P1454
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_W										
WELL-2	09/29/2015 13:10	4	Aqueous	X	P1454-01F	X										13149-01

3

1) SW9012_W, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

4.7 | -1 | 3.7 | 01
10/2/15

		Date/Time			Date/Time
Relinquished by:	[signature]	10/02/15 11:10	**Received by:**	[signature]	10/2/15 12:40
Relinquished by:	[signature]	10/2/15 13:05	**Received by:**	[signature]	10/2/15 18:50

10/02/2015
Page 1 of 1

646 Camp Ave * North Kingstown * RI * 028524008 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

☒ DETRIG.

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1454

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1454-01A	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	GRO_W	/			Y		VOA
P1454-01A	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	SW8260_W	/			Y	Y	VOA
P1454-01B	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	SW8011_W	/ EDB and DBCP			Y	Y	Q4
P1454-01C	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	SW8081_W	/			Y		Q4
P1454-01C	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	SW8082_W	/			Y		Q4
P1454-01C	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	SW8270_W	/ Special SEL			Y	Y	Q4
P1454-01C	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	TPH_W	/ Extractable TPH- DRO			Y		Q4
P1454-01D	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	SW6020_W	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn			Y	Y	M4
P1454-01D	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	SW7470	/			Y		M4
P1454-01F	WELL-2	09/29/2015 13:10	09/30/2015	Aqueous	SW9012_W	/ SPECTRUM--			Y		Q4
P1454-02A	TRIP BLANK-02	09/29/2015 17:00	09/30/2015	Aqueous	SW8260_W	/				Y	VOA
P1454-03A	WELL-2-F		09/30/2015	Aqueous	SW6020_W	Dissolved / Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4
P1454-03A	WELL-2-F		09/30/2015	Aqueous	SW7470	Dissolved /					M4

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 1

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering Inc
585 Middlesex St
Lowell MA 01851

Telephone #: 978-683-0881
Project Mgr. Tracey Costa

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= Ice 12= _____

List preservative code below: 2 | 2 | 2/11 | 11 | 11 | 5

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1454 G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOCs	EDB/DBCP	TPH-GRO/DRO	Pest./PCB	Metals (RI DEM) Total	Cyanide			
01	WELL-2	9/29/15	1310		GW	21	15		9		X	X	X	X	X	X			MS/MSD
02	Trip Blank-02	9/29/15	1700		W	2					X								

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/30/15	1145	
[signature]	[signature]	9/30/15	13:20	4.6°C

☐ EDD Format _____
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Eurofins Spectrum Analytical, Inc. -- ESA-RI

Received By: AEH	Page 01 of 00
Reviewed By: CJ	Log-in Date 09/30/2015
Work Order: P1454	Client Name: Nobis Engineering, Inc
Project Name/Event: Barrington, RI site	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
5. Airbill No. — Courier N/A
6. Sample Tags — Present / Absent
   Sample Tag Numbers — Listed / Not Listed on Chain-of-Custody
7. Sample Condition — Intact / Broken/ Leaking
8. Cooler Temperature Indicator Bottle — Present / Absent

9. Cooler Temperature	4.6 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	09/30/2015
12. Time Received	13:00

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
P1454-01	<2			>12		H	
P1454-02						H	

IR Temp Gun ID:MT-74

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

Last Page of Data Report

Report Date:
13-Oct-15 13:46

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- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Laboratory Report

Nobis Engineering, Inc
585 Middlesex Street
Lowell, MA 01851

Attn: Gail DeRuzzo

Work Order: P1456
Project : Barrington, RI site
Project #:

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P1456-01	NOB-105 0709	Soil	28-Sep-15 14:40	30-Sep-15 13:00
P1456-02	NOB-104 0002	Soil	28-Sep-15 14:55	30-Sep-15 13:00
P1456-03	NOB-104 0709	Soil	28-Sep-15 15:05	30-Sep-15 13:00
P1456-04	NOB-103 0002	Soil	28-Sep-15 15:15	30-Sep-15 13:00
P1456-05	NOB-103 1315	Soil	28-Sep-15 15:30	30-Sep-15 13:00
P1456-06	NOB-102 0002	Soil	28-Sep-15 16:00	30-Sep-15 13:00
P1456-07	NOB-102 0709	Soil	28-Sep-15 16:20	30-Sep-15 13:00
P1456-08	TRIP BLANK	Soil	29-Sep-15 09:00	30-Sep-15 13:00
P1456-09	NOB-113 0002	Soil	28-Sep-15 09:00	30-Sep-15 13:00
P1456-10	NOB-113 1214	Soil	28-Sep-15 10:30	30-Sep-15 13:00
P1456-11	NOB-121 0002	Soil	28-Sep-15 11:10	30-Sep-15 13:00
P1456-12	NOB-121 1214	Soil	28-Sep-15 11:40	30-Sep-15 13:00
P1456-13	NOB-106 0002	Soil	28-Sep-15 12:30	30-Sep-15 13:00
P1456-14	NOB-106 1214	Soil	28-Sep-15 12:45	30-Sep-15 13:00
P1456-15	FD-03	Soil	28-Sep-15 00:00	30-Sep-15 13:00
P1456-16	NOB-107 0002	Soil	28-Sep-15 13:15	30-Sep-15 13:00
P1456-17	NOB-107 1416	Soil	28-Sep-15 13:30	30-Sep-15 13:00
P1456-18	NOB-105 0002	Soil	28-Sep-15 14:25	30-Sep-15 13:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Eurofins Spectrum Analytical (ESA-RI) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1456

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-103 0002 (P1456-04CMS) and NOB-103 0002 (P1456-04CMSD).

Percent recoveries were within the QC limits with the following exceptions:

NOB-103 0002 (P1456-04CMS), recovery is below criteria for 1,1,1-Trichloroethane at 66% with criteria of (70-135), 1,1-Dichloroethane at 74% with criteria of (75-125), 1,1-Dichloropropene at 69% with criteria of (70-135), 1,2,4-Trichlorobenzene at 56% with criteria of (65-130), 4-Isopropyltoluene at 71% with criteria of (75-135), n-Butylbenzene at 64% with criteria of (65-140) and Trichloroethene at 64% with criteria of (75-125).

NOB-103 0002 (P1456-04CMSD), recovery is below criteria for 1,2,4-Trichlorobenzene at 64% with criteria of (65-130) and Trichloroethene at 73% with criteria of (75-125).

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integration was performed on the following:

VSTD0501H 2,2-Dichloropropane due to M6

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1456

SW846 8015D GRO, Gasoline Range Organic (GRO) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D GRO

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V4
Instrument Type: GC-FID/PID

Description: HP5890 A
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [um thickness] RTX-502.2 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-103 0002 (P1456-04DMS) and NOB-103 0002 (P1456-04DMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

NA--Supervisor needs to explain why no internal standards were detected during the generation of this narrative.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

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Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1456

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi

Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-103 0002 (P1456-04AMS) and NOB-103 0002 (P1456-04AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integrations were performed on the following:

NOB-103 0002 (P1456-04AMS) Pentachlorophenol due to M6

NOB-103 0002 (P1456-04AMSD) Pentachlorophenol due to M6

SSTD0056T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid, Pentachlorophenol due to M6

SSTD0106T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid due to M6

SSTD0406T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0606T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0806T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Indeno(1,2,3-cd)pyrene due to M6

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Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1456

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.
GC Column used: 30 m X 0.53 mm ID [0.42 um thickness] CLPPestII capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-103 0002 (P1456-04AMS) and NOB-103 0002 (P1456-04AMSD).

Percent recoveries were within the QC limits with the following exceptions:

Replicate RPDs were within the advisory QC limits with the exception of the following:

NOB-103 0002 (P1456-04AMSD), Relative Percent Difference is greater than reported RPD limit for Endrin aldehyde on front column.

E. Dilutions:

The following samples were analyzed at dilution:

NOB-121 0002 (P1456-11A) : Dilution Factor: 10

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1456

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard

Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-103 0002 (P1456-04AMS) and NOB-103 0002 (P1456-04AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1456

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D TPH

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-103 0002 (P1456-04AMS) and NOB-103 0002 (P1456-04AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1456

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6010C, SW846 7471B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B
Soil Samples were prepared following procedures in laboratory test code: SW7471B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA2
Instrument Type: ICP
Description: Optima 3100 XL
Manufacturer: Perkin-Elmer
Model: 3100 XL

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on sample: NOB-103 0002 (P1456-04AMS).

Percent recoveries were within the QC limits with the following exceptions:

NOB-103 0002 (P1456-04AMS), recovery is below criteria for Antimony at 69% with criteria of (80-120).

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: NOB-103 0002 (P1456-04APDS).

NOB-103 0002 (P1456-04APDS) for Antimony due to recovery of this element outside of QC limits in the matrix spike.

E. **Duplicate sample:**

Duplicate analyses were performed on sample: NOB-103 0002 (P1456-04ADUP).

Relative percent differences were within the QC limits.

F. **Serial Dilution (SD):**

Serial Dilution analyses were performed on sample: NOB-103 0002 (P1456-04ASD).

Percent differences were within the QC limits with the exception of the following:

NOB-103 0002 (P1456-04ASD), Serial Dilution analysis not within control limit for Barium and Nickel.

G. **Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: Sharon B Lawler

Date: 10/13/2015

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1456

SW846 7196A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 7196A

IV. PREPARATION

Samples were prepared following procedures in laboratory test code: SW846 7196A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: SPEC2
Instrument Type: SP

Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS/LCSi):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD and MSi/MSiD):

Matrix spikes were performed on samples: NOB-103 0002 (P1456-04BMS), NOB-103 0002 (P1456-04BMSD), NOB-103 0002 (P1456-04BMSI) and NOB-103 0002 (P1456-04BMSID).

Percent recoveries were within the QC limits with the following exceptions:

NOB-103 0002 (P1456-04BMS), recovery is below criteria for Chromium, Hexavalent at 73% with criteria of (75-125).

NOB-103 0002 (P1456-04BMSD), recovery is below criteria for Chromium, Hexavalent at 69% with criteria of (75-125).

The associated MSi/MSiD were both within recovery limits as was the associated LCS/LCSi and PDS.

Replicate RPDs were within the advisory QC limits.

D. Duplicate sample:

Duplicate analyses were performed on sample: NOB-103 0002 (P1456-04BDUP).

Relative percent differences were within the QC limits.

E. **Dilutions:**

The following samples were analyzed at dilution:

NOB-103 0002 (P1456-04BMSI), dilution factor: 10 for Chromium, Hexavalent
NOB-103 0002 (P1456-04BMSID), dilution factor: 10 for Chromium, Hexavalent

F. **Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: Shawn B Lawler

Date: 10/08/2015

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709 **Project:** Barrington, RI site
Lab ID: P1456-01 **Collection Date:** 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Chloromethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Vinyl chloride	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Bromomethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Chloroethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Trichlorofluoromethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,1-Dichloroethene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Acetone	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Carbon disulfide	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Methylene chloride	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Methyl tert-butyl ether	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,1-Dichloroethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
2-Butanone	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
2,2-Dichloropropane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Bromochloromethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Chloroform	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,1,1-Trichloroethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,1-Dichloropropene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Carbon tetrachloride	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2-Dichloroethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Benzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Trichloroethene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2-Dichloropropane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Dibromomethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Bromodichloromethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
4-Methyl-2-pentanone	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Toluene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,1,2-Trichloroethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,3-Dichloropropane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Tetrachloroethene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
2-Hexanone	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Dibromochloromethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2-Dibromoethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Chlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709 **Project:** Barrington, RI site
Lab ID: P1456-01 **Collection Date:** 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Ethylbenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
m,p-Xylene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
o-Xylene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Xylene (Total)	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Styrene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Bromoform	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Isopropylbenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Bromobenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2,3-Trichloropropane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
n-Propylbenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
2-Chlorotoluene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
4-Chlorotoluene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
tert-Butylbenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
sec-Butylbenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
4-Isopropyltoluene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,3-Dichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,4-Dichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
n-Butylbenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2-Dichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2-Dibromo-3-chloropropane	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Hexachlorobutadiene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Naphthalene	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Diethyl ether	ND		3.9	ug/Kg	1	10/02/2015 15:25	83185
Tetrahydrofuran	ND		7.8	ug/Kg	1	10/02/2015 15:25	83185
Surrogate: Dibromofluoromethane	98.8		76-128	%REC	1	10/02/2015 15:25	83185
Surrogate: 1,2-Dichloroethane-d4	103		88-110	%REC	1	10/02/2015 15:25	83185
Surrogate: Toluene-d8	105		85-115	%REC	1	10/02/2015 15:25	83185
Surrogate: Bromofluorobenzene	98.1		85-120	%REC	1	10/02/2015 15:25	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002 **Project:** Barrington, RI site
Lab ID: P1456-02 **Collection Date:** 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Chloromethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Vinyl chloride	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Bromomethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Chloroethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Trichlorofluoromethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,1-Dichloroethene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Acetone	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Carbon disulfide	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Methylene chloride	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Methyl tert-butyl ether	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,1-Dichloroethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
2-Butanone	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
2,2-Dichloropropane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Bromochloromethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Chloroform	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,1,1-Trichloroethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,1-Dichloropropene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Carbon tetrachloride	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2-Dichloroethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Benzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Trichloroethene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2-Dichloropropane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Dibromomethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Bromodichloromethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
4-Methyl-2-pentanone	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Toluene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,1,2-Trichloroethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,3-Dichloropropane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Tetrachloroethene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
2-Hexanone	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Dibromochloromethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2-Dibromoethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Chlorobenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002 **Project:** Barrington, RI site
Lab ID: P1456-02 **Collection Date:** 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Ethylbenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
m,p-Xylene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
o-Xylene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Xylene (Total)	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Styrene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Bromoform	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Isopropylbenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Bromobenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2,3-Trichloropropane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
n-Propylbenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
2-Chlorotoluene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
4-Chlorotoluene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
tert-Butylbenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
sec-Butylbenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
4-Isopropyltoluene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,3-Dichlorobenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,4-Dichlorobenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
n-Butylbenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2-Dichlorobenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2-Dibromo-3-chloropropane	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Hexachlorobutadiene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Naphthalene	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Diethyl ether	ND		4.1	ug/Kg	1	10/02/2015 15:50	83185
Tetrahydrofuran	ND		8.2	ug/Kg	1	10/02/2015 15:50	83185
Surrogate: Dibromofluoromethane	96.2		76-128	%REC	1	10/02/2015 15:50	83185
Surrogate: 1,2-Dichloroethane-d4	99.4		88-110	%REC	1	10/02/2015 15:50	83185
Surrogate: Toluene-d8	104		85-115	%REC	1	10/02/2015 15:50	83185
Surrogate: Bromofluorobenzene	97.0		85-120	%REC	1	10/02/2015 15:50	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709 **Project:** Barrington, RI site
Lab ID: P1456-03 **Collection Date:** 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Chloromethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Vinyl chloride	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Bromomethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Chloroethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Trichlorofluoromethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,1-Dichloroethene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Acetone	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Carbon disulfide	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Methylene chloride	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Methyl tert-butyl ether	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,1-Dichloroethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
2-Butanone	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
2,2-Dichloropropane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Bromochloromethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Chloroform	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,1,1-Trichloroethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,1-Dichloropropene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Carbon tetrachloride	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2-Dichloroethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Benzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Trichloroethene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2-Dichloropropane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Dibromomethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Bromodichloromethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
4-Methyl-2-pentanone	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Toluene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,1,2-Trichloroethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,3-Dichloropropane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Tetrachloroethene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
2-Hexanone	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Dibromochloromethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2-Dibromoethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Chlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709 **Project:** Barrington, RI site
Lab ID: P1456-03 **Collection Date:** 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Ethylbenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
m,p-Xylene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
o-Xylene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Xylene (Total)	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Styrene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Bromoform	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Isopropylbenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Bromobenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2,3-Trichloropropane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
n-Propylbenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
2-Chlorotoluene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
4-Chlorotoluene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
tert-Butylbenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
sec-Butylbenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
4-Isopropyltoluene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,3-Dichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,4-Dichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
n-Butylbenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2-Dichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2-Dibromo-3-chloropropane	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Hexachlorobutadiene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Naphthalene	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Diethyl ether	ND		3.7	ug/Kg	1	10/02/2015 16:16	83185
Tetrahydrofuran	ND		7.3	ug/Kg	1	10/02/2015 16:16	83185
Surrogate: Dibromofluoromethane	96.9		76-128	%REC	1	10/02/2015 16:16	83185
Surrogate: 1,2-Dichloroethane-d4	97.7		88-110	%REC	1	10/02/2015 16:16	83185
Surrogate: Toluene-d8	105		85-115	%REC	1	10/02/2015 16:16	83185
Surrogate: Bromofluorobenzene	94.4		85-120	%REC	1	10/02/2015 16:16	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002 **Project:** Barrington, RI site
Lab ID: P1456-04 **Collection Date:** 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Chloromethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Vinyl chloride	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Bromomethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Chloroethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Trichlorofluoromethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,1-Dichloroethene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Acetone	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Carbon disulfide	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Methylene chloride	3.6		3.4	ug/Kg	1	10/02/2015 16:41	83185
trans-1,2-Dichloroethene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Methyl tert-butyl ether	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,1-Dichloroethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
2-Butanone	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
cis-1,2-Dichloroethene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
2,2-Dichloropropane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Bromochloromethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Chloroform	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,1,1-Trichloroethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,1-Dichloropropene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Carbon tetrachloride	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2-Dichloroethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Benzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Trichloroethene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2-Dichloropropane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Dibromomethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Bromodichloromethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
cis-1,3-Dichloropropene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
4-Methyl-2-pentanone	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Toluene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
trans-1,3-Dichloropropene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,1,2-Trichloroethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,3-Dichloropropane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Tetrachloroethene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
2-Hexanone	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Dibromochloromethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2-Dibromoethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Chlorobenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002 **Project:** Barrington, RI site
Lab ID: P1456-04 **Collection Date:** 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Ethylbenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
m,p-Xylene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
o-Xylene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Xylene (Total)	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Styrene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Bromoform	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Isopropylbenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,1,2,2-Tetrachloroethane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Bromobenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2,3-Trichloropropane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
n-Propylbenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
2-Chlorotoluene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,3,5-Trimethylbenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
4-Chlorotoluene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
tert-Butylbenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2,4-Trimethylbenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
sec-Butylbenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
4-Isopropyltoluene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,3-Dichlorobenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,4-Dichlorobenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
n-Butylbenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2-Dichlorobenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2-Dibromo-3-chloropropane	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2,4-Trichlorobenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Hexachlorobutadiene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
1,2,3-Trichlorobenzene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Naphthalene	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Diethyl ether	ND		3.4	ug/Kg	1	10/02/2015 16:41	83185
Tetrahydrofuran	ND		6.9	ug/Kg	1	10/02/2015 16:41	83185
Surrogate: Dibromofluoromethane	99.5		76-128	%REC	1	10/02/2015 16:41	83185
Surrogate: 1,2-Dichloroethane-d4	96.4		88-110	%REC	1	10/02/2015 16:41	83185
Surrogate: Toluene-d8	105		85-115	%REC	1	10/02/2015 16:41	83185
Surrogate: Bromofluorobenzene	97.9		85-120	%REC	1	10/02/2015 16:41	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315 **Project:** Barrington, RI site
Lab ID: P1456-05 **Collection Date:** 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Chloromethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Vinyl chloride	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Bromomethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Chloroethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Trichlorofluoromethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,1-Dichloroethene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Acetone	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Carbon disulfide	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Methylene chloride	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Methyl tert-butyl ether	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,1-Dichloroethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
2-Butanone	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
2,2-Dichloropropane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Bromochloromethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Chloroform	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,1,1-Trichloroethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,1-Dichloropropene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Carbon tetrachloride	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2-Dichloroethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Benzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Trichloroethene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2-Dichloropropane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Dibromomethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Bromodichloromethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
4-Methyl-2-pentanone	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Toluene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,1,2-Trichloroethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,3-Dichloropropane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Tetrachloroethene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
2-Hexanone	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Dibromochloromethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2-Dibromoethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Chlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315 **Project:** Barrington, RI site
Lab ID: P1456-05 **Collection Date:** 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Ethylbenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
m,p-Xylene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
o-Xylene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Xylene (Total)	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Styrene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Bromoform	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Isopropylbenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Bromobenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2,3-Trichloropropane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
n-Propylbenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
2-Chlorotoluene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
4-Chlorotoluene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
tert-Butylbenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
sec-Butylbenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
4-Isopropyltoluene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,3-Dichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,4-Dichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
n-Butylbenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2-Dichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2-Dibromo-3-chloropropane	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Hexachlorobutadiene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Naphthalene	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Diethyl ether	ND		3.9	ug/Kg	1	10/02/2015 17:07	83185
Tetrahydrofuran	ND		7.9	ug/Kg	1	10/02/2015 17:07	83185
Surrogate: Dibromofluoromethane	92.8		76-128	%REC	1	10/02/2015 17:07	83185
Surrogate: 1,2-Dichloroethane-d4	101		88-110	%REC	1	10/02/2015 17:07	83185
Surrogate: Toluene-d8	105		85-115	%REC	1	10/02/2015 17:07	83185
Surrogate: Bromofluorobenzene	97.8		85-120	%REC	1	10/02/2015 17:07	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002 **Project:** Barrington, RI site
Lab ID: P1456-06 **Collection Date:** 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Chloromethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Vinyl chloride	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Bromomethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Chloroethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Trichlorofluoromethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,1-Dichloroethene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Acetone	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Carbon disulfide	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Methylene chloride	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
trans-1,2-Dichloroethene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Methyl tert-butyl ether	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,1-Dichloroethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
2-Butanone	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
cis-1,2-Dichloroethene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
2,2-Dichloropropane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Bromochloromethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Chloroform	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,1,1-Trichloroethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,1-Dichloropropene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Carbon tetrachloride	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2-Dichloroethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Benzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Trichloroethene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2-Dichloropropane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Dibromomethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Bromodichloromethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
cis-1,3-Dichloropropene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
4-Methyl-2-pentanone	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Toluene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
trans-1,3-Dichloropropene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,1,2-Trichloroethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,3-Dichloropropane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Tetrachloroethene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
2-Hexanone	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Dibromochloromethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2-Dibromoethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Chlorobenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002 **Project:** Barrington, RI site
Lab ID: P1456-06 **Collection Date:** 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Ethylbenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
m,p-Xylene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
o-Xylene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Xylene (Total)	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Styrene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Bromoform	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Isopropylbenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,1,2,2-Tetrachloroethane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Bromobenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2,3-Trichloropropane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
n-Propylbenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
2-Chlorotoluene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,3,5-Trimethylbenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
4-Chlorotoluene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
tert-Butylbenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2,4-Trimethylbenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
sec-Butylbenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
4-Isopropyltoluene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,3-Dichlorobenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,4-Dichlorobenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
n-Butylbenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2-Dichlorobenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2-Dibromo-3-chloropropane	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2,4-Trichlorobenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Hexachlorobutadiene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
1,2,3-Trichlorobenzene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Naphthalene	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Diethyl ether	ND		5.6	ug/Kg	1	10/02/2015 17:32	83185
Tetrahydrofuran	ND		11	ug/Kg	1	10/02/2015 17:32	83185
Surrogate: Dibromofluoromethane	96.3		76-128	%REC	1	10/02/2015 17:32	83185
Surrogate: 1,2-Dichloroethane-d4	98.3		88-110	%REC	1	10/02/2015 17:32	83185
Surrogate: Toluene-d8	105		85-115	%REC	1	10/02/2015 17:32	83185
Surrogate: Bromofluorobenzene	98.5		85-120	%REC	1	10/02/2015 17:32	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709 **Project:** Barrington, RI site
Lab ID: P1456-07 **Collection Date:** 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Chloromethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Vinyl chloride	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Bromomethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Chloroethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Trichlorofluoromethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,1-Dichloroethene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Acetone	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Carbon disulfide	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Methylene chloride	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Methyl tert-butyl ether	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,1-Dichloroethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
2-Butanone	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
2,2-Dichloropropane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Bromochloromethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Chloroform	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,1,1-Trichloroethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,1-Dichloropropene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Carbon tetrachloride	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2-Dichloroethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Benzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Trichloroethene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2-Dichloropropane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Dibromomethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Bromodichloromethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
4-Methyl-2-pentanone	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Toluene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,1,2-Trichloroethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,3-Dichloropropane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Tetrachloroethene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
2-Hexanone	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Dibromochloromethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2-Dibromoethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Chlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709 **Project:** Barrington, RI site
Lab ID: P1456-07 **Collection Date:** 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Ethylbenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
m,p-Xylene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
o-Xylene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Xylene (Total)	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Styrene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Bromoform	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Isopropylbenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Bromobenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2,3-Trichloropropane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
n-Propylbenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
2-Chlorotoluene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
4-Chlorotoluene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
tert-Butylbenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
sec-Butylbenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
4-Isopropyltoluene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,3-Dichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,4-Dichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
n-Butylbenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2-Dichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2-Dibromo-3-chloropropane	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Hexachlorobutadiene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Naphthalene	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Diethyl ether	ND		3.7	ug/Kg	1	10/02/2015 17:56	83185
Tetrahydrofuran	ND		7.5	ug/Kg	1	10/02/2015 17:56	83185
Surrogate: Dibromofluoromethane	97.3		76-128	%REC	1	10/02/2015 17:56	83185
Surrogate: 1,2-Dichloroethane-d4	103		88-110	%REC	1	10/02/2015 17:56	83185
Surrogate: Toluene-d8	108		85-115	%REC	1	10/02/2015 17:56	83185
Surrogate: Bromofluorobenzene	99.7		85-120	%REC	1	10/02/2015 17:56	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK
Lab ID: P1456-08
Project: Barrington, RI site
Collection Date: 09/29/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Chloromethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Vinyl chloride	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Bromomethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Chloroethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Trichlorofluoromethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,1-Dichloroethene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Acetone	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Carbon disulfide	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Methylene chloride	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
trans-1,2-Dichloroethene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Methyl tert-butyl ether	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,1-Dichloroethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
2-Butanone	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
cis-1,2-Dichloroethene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
2,2-Dichloropropane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Bromochloromethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Chloroform	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,1,1-Trichloroethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,1-Dichloropropene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Carbon tetrachloride	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2-Dichloroethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Benzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Trichloroethene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2-Dichloropropane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Dibromomethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Bromodichloromethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
cis-1,3-Dichloropropene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
4-Methyl-2-pentanone	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Toluene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
trans-1,3-Dichloropropene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,1,2-Trichloroethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,3-Dichloropropane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Tetrachloroethene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
2-Hexanone	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Dibromochloromethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2-Dibromoethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Chlorobenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK
Lab ID: P1456-08
Project: Barrington, RI site
Collection Date: 09/29/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Ethylbenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
m,p-Xylene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
o-Xylene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Xylene (Total)	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Styrene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Bromoform	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Isopropylbenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Bromobenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2,3-Trichloropropane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
n-Propylbenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
2-Chlorotoluene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
4-Chlorotoluene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
tert-Butylbenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
sec-Butylbenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
4-Isopropyltoluene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,3-Dichlorobenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,4-Dichlorobenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
n-Butylbenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2-Dichlorobenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2-Dibromo-3-chloropropane	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Hexachlorobutadiene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Naphthalene	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Diethyl ether	ND		5.0	ug/Kg	1	10/02/2015 15:00	83185
Tetrahydrofuran	ND		10	ug/Kg	1	10/02/2015 15:00	83185
Surrogate: Dibromofluoromethane	95.6		76-128	%REC	1	10/02/2015 15:00	83185
Surrogate: 1,2-Dichloroethane-d4	89.3		88-110	%REC	1	10/02/2015 15:00	83185
Surrogate: Toluene-d8	108		85-115	%REC	1	10/02/2015 15:00	83185
Surrogate: Bromofluorobenzene	99.5		85-120	%REC	1	10/02/2015 15:00	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002 **Project:** Barrington, RI site
Lab ID: P1456-09 **Collection Date:** 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Chloromethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Vinyl chloride	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Bromomethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Chloroethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Trichlorofluoromethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,1-Dichloroethene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Acetone	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Carbon disulfide	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Methylene chloride	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
trans-1,2-Dichloroethene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Methyl tert-butyl ether	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,1-Dichloroethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
2-Butanone	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
cis-1,2-Dichloroethene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
2,2-Dichloropropane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Bromochloromethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Chloroform	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,1,1-Trichloroethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,1-Dichloropropene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Carbon tetrachloride	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2-Dichloroethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Benzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Trichloroethene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2-Dichloropropane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Dibromomethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Bromodichloromethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
cis-1,3-Dichloropropene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
4-Methyl-2-pentanone	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Toluene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
trans-1,3-Dichloropropene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,1,2-Trichloroethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,3-Dichloropropane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Tetrachloroethene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
2-Hexanone	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Dibromochloromethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2-Dibromoethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Chlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002 **Project:** Barrington, RI site
Lab ID: P1456-09 **Collection Date:** 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Ethylbenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
m,p-Xylene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
o-Xylene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Xylene (Total)	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Styrene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Bromoform	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Isopropylbenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,1,2,2-Tetrachloroethane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Bromobenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2,3-Trichloropropane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
n-Propylbenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
2-Chlorotoluene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,3,5-Trimethylbenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
4-Chlorotoluene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
tert-Butylbenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2,4-Trimethylbenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
sec-Butylbenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
4-Isopropyltoluene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,3-Dichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,4-Dichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
n-Butylbenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2-Dichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2-Dibromo-3-chloropropane	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2,4-Trichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Hexachlorobutadiene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
1,2,3-Trichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Naphthalene	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Diethyl ether	ND		4.2	ug/Kg	1	10/02/2015 18:22	83185
Tetrahydrofuran	ND		8.4	ug/Kg	1	10/02/2015 18:22	83185
Surrogate: Dibromofluoromethane	103		76-128	%REC	1	10/02/2015 18:22	83185
Surrogate: 1,2-Dichloroethane-d4	103		88-110	%REC	1	10/02/2015 18:22	83185
Surrogate: Toluene-d8	108		85-115	%REC	1	10/02/2015 18:22	83185
Surrogate: Bromofluorobenzene	97.7		85-120	%REC	1	10/02/2015 18:22	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214 **Project:** Barrington, RI site
Lab ID: P1456-10 **Collection Date:** 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Chloromethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Vinyl chloride	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Bromomethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Chloroethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Trichlorofluoromethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,1-Dichloroethene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Acetone	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Carbon disulfide	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Methylene chloride	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
trans-1,2-Dichloroethene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Methyl tert-butyl ether	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,1-Dichloroethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
2-Butanone	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
cis-1,2-Dichloroethene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
2,2-Dichloropropane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Bromochloromethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Chloroform	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,1,1-Trichloroethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,1-Dichloropropene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Carbon tetrachloride	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2-Dichloroethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Benzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Trichloroethene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2-Dichloropropane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Dibromomethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Bromodichloromethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
cis-1,3-Dichloropropene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
4-Methyl-2-pentanone	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Toluene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
trans-1,3-Dichloropropene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,1,2-Trichloroethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,3-Dichloropropane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Tetrachloroethene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
2-Hexanone	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Dibromochloromethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2-Dibromoethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Chlorobenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214
Lab ID: P1456-10
Project: Barrington, RI site
Collection Date: 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Ethylbenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
m,p-Xylene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
o-Xylene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Xylene (Total)	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Styrene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Bromoform	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Isopropylbenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,1,2,2-Tetrachloroethane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Bromobenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2,3-Trichloropropane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
n-Propylbenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
2-Chlorotoluene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,3,5-Trimethylbenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
4-Chlorotoluene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
tert-Butylbenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2,4-Trimethylbenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
sec-Butylbenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
4-Isopropyltoluene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,3-Dichlorobenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,4-Dichlorobenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
n-Butylbenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2-Dichlorobenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2-Dibromo-3-chloropropane	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2,4-Trichlorobenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Hexachlorobutadiene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
1,2,3-Trichlorobenzene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Naphthalene	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Diethyl ether	ND		3.5	ug/Kg	1	10/02/2015 18:47	83185
Tetrahydrofuran	ND		7.0	ug/Kg	1	10/02/2015 18:47	83185
Surrogate: Dibromofluoromethane	95.0		76-128	%REC	1	10/02/2015 18:47	83185
Surrogate: 1,2-Dichloroethane-d4	96.9		88-110	%REC	1	10/02/2015 18:47	83185
Surrogate: Toluene-d8	104		85-115	%REC	1	10/02/2015 18:47	83185
Surrogate: Bromofluorobenzene	101		85-120	%REC	1	10/02/2015 18:47	83185

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002 **Project:** Barrington, RI site
Lab ID: P1456-11 **Collection Date:** 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Chloromethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Vinyl chloride	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Bromomethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Chloroethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Trichlorofluoromethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,1-Dichloroethene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Acetone	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Carbon disulfide	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Methylene chloride	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
trans-1,2-Dichloroethene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Methyl tert-butyl ether	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,1-Dichloroethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
2-Butanone	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
cis-1,2-Dichloroethene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
2,2-Dichloropropane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Bromochloromethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Chloroform	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,1,1-Trichloroethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,1-Dichloropropene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Carbon tetrachloride	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2-Dichloroethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Benzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Trichloroethene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2-Dichloropropane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Dibromomethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Bromodichloromethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
cis-1,3-Dichloropropene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
4-Methyl-2-pentanone	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Toluene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
trans-1,3-Dichloropropene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,1,2-Trichloroethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,3-Dichloropropane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Tetrachloroethene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
2-Hexanone	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Dibromochloromethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2-Dibromoethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Chlorobenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002 **Project:** Barrington, RI site
Lab ID: P1456-11 **Collection Date:** 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Ethylbenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
m,p-Xylene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
o-Xylene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Xylene (Total)	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Styrene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Bromoform	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Isopropylbenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,1,2,2-Tetrachloroethane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Bromobenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2,3-Trichloropropane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
n-Propylbenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
2-Chlorotoluene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,3,5-Trimethylbenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
4-Chlorotoluene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
tert-Butylbenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2,4-Trimethylbenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
sec-Butylbenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
4-Isopropyltoluene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,3-Dichlorobenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,4-Dichlorobenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
n-Butylbenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2-Dichlorobenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2-Dibromo-3-chloropropane	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2,4-Trichlorobenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Hexachlorobutadiene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
1,2,3-Trichlorobenzene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Naphthalene	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Diethyl ether	ND		3.8	ug/Kg	1	10/02/2015 23:22	83210
Tetrahydrofuran	ND		7.5	ug/Kg	1	10/02/2015 23:22	83210
Surrogate: Dibromofluoromethane	96.6		76-128	%REC	1	10/02/2015 23:22	83210
Surrogate: 1,2-Dichloroethane-d4	97.8		88-110	%REC	1	10/02/2015 23:22	83210
Surrogate: Toluene-d8	108		85-115	%REC	1	10/02/2015 23:22	83210
Surrogate: Bromofluorobenzene	100		85-120	%REC	1	10/02/2015 23:22	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214 **Project:** Barrington, RI site
Lab ID: P1456-12 **Collection Date:** 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Chloromethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Vinyl chloride	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Bromomethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Chloroethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Trichlorofluoromethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,1-Dichloroethene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Acetone	3.9	J	4.2	ug/Kg	1	10/02/2015 23:47	83210
Carbon disulfide	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Methylene chloride	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
trans-1,2-Dichloroethene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Methyl tert-butyl ether	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,1-Dichloroethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
2-Butanone	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
cis-1,2-Dichloroethene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
2,2-Dichloropropane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Bromochloromethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Chloroform	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,1,1-Trichloroethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,1-Dichloropropene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Carbon tetrachloride	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2-Dichloroethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Benzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Trichloroethene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2-Dichloropropane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Dibromomethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Bromodichloromethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
cis-1,3-Dichloropropene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
4-Methyl-2-pentanone	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Toluene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
trans-1,3-Dichloropropene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,1,2-Trichloroethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,3-Dichloropropane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Tetrachloroethene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
2-Hexanone	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Dibromochloromethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2-Dibromoethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Chlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214 **Project:** Barrington, RI site
Lab ID: P1456-12 **Collection Date:** 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Ethylbenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
m,p-Xylene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
o-Xylene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Xylene (Total)	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Styrene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Bromoform	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Isopropylbenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,1,2,2-Tetrachloroethane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Bromobenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2,3-Trichloropropane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
n-Propylbenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
2-Chlorotoluene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,3,5-Trimethylbenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
4-Chlorotoluene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
tert-Butylbenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2,4-Trimethylbenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
sec-Butylbenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
4-Isopropyltoluene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,3-Dichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,4-Dichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
n-Butylbenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2-Dichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2-Dibromo-3-chloropropane	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2,4-Trichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Hexachlorobutadiene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
1,2,3-Trichlorobenzene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Naphthalene	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Diethyl ether	ND		4.2	ug/Kg	1	10/02/2015 23:47	83210
Tetrahydrofuran	ND		8.4	ug/Kg	1	10/02/2015 23:47	83210
Surrogate: Dibromofluoromethane	97.1		76-128	%REC	1	10/02/2015 23:47	83210
Surrogate: 1,2-Dichloroethane-d4	98.2		88-110	%REC	1	10/02/2015 23:47	83210
Surrogate: Toluene-d8	106		85-115	%REC	1	10/02/2015 23:47	83210
Surrogate: Bromofluorobenzene	98.3		85-120	%REC	1	10/02/2015 23:47	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002 **Project:** Barrington, RI site
Lab ID: P1456-13 **Collection Date:** 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Chloromethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Vinyl chloride	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Bromomethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Chloroethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Trichlorofluoromethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,1-Dichloroethene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Acetone	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Carbon disulfide	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Methylene chloride	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
trans-1,2-Dichloroethene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Methyl tert-butyl ether	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,1-Dichloroethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
2-Butanone	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
cis-1,2-Dichloroethene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
2,2-Dichloropropane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Bromochloromethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Chloroform	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,1,1-Trichloroethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,1-Dichloropropene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Carbon tetrachloride	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2-Dichloroethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Benzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Trichloroethene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2-Dichloropropane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Dibromomethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Bromodichloromethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
cis-1,3-Dichloropropene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
4-Methyl-2-pentanone	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Toluene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
trans-1,3-Dichloropropene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,1,2-Trichloroethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,3-Dichloropropane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Tetrachloroethene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
2-Hexanone	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Dibromochloromethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2-Dibromoethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Chlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002 **Project:** Barrington, RI site
Lab ID: P1456-13 **Collection Date:** 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Ethylbenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
m,p-Xylene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
o-Xylene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Xylene (Total)	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Styrene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Bromoform	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Isopropylbenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,1,2,2-Tetrachloroethane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Bromobenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2,3-Trichloropropane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
n-Propylbenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
2-Chlorotoluene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,3,5-Trimethylbenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
4-Chlorotoluene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
tert-Butylbenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2,4-Trimethylbenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
sec-Butylbenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
4-Isopropyltoluene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,3-Dichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,4-Dichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
n-Butylbenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2-Dichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2-Dibromo-3-chloropropane	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2,4-Trichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Hexachlorobutadiene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
1,2,3-Trichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Naphthalene	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Diethyl ether	ND		4.0	ug/Kg	1	10/03/2015 0:11	83210
Tetrahydrofuran	ND		8.0	ug/Kg	1	10/03/2015 0:11	83210
Surrogate: Dibromofluoromethane	97.3		76-128	%REC	1	10/03/2015 0:11	83210
Surrogate: 1,2-Dichloroethane-d4	101		88-110	%REC	1	10/03/2015 0:11	83210
Surrogate: Toluene-d8	108		85-115	%REC	1	10/03/2015 0:11	83210
Surrogate: Bromofluorobenzene	97.5		85-120	%REC	1	10/03/2015 0:11	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214 **Project:** Barrington, RI site
Lab ID: P1456-14 **Collection Date:** 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Chloromethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Vinyl chloride	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Bromomethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Chloroethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Trichlorofluoromethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,1-Dichloroethene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Acetone	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Carbon disulfide	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Methylene chloride	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
trans-1,2-Dichloroethene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Methyl tert-butyl ether	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,1-Dichloroethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
2-Butanone	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
cis-1,2-Dichloroethene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
2,2-Dichloropropane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Bromochloromethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Chloroform	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,1,1-Trichloroethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,1-Dichloropropene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Carbon tetrachloride	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2-Dichloroethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Benzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Trichloroethene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2-Dichloropropane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Dibromomethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Bromodichloromethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
cis-1,3-Dichloropropene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
4-Methyl-2-pentanone	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Toluene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
trans-1,3-Dichloropropene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,1,2-Trichloroethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,3-Dichloropropane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Tetrachloroethene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
2-Hexanone	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Dibromochloromethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2-Dibromoethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Chlorobenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214 **Project:** Barrington, RI site
Lab ID: P1456-14 **Collection Date:** 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Ethylbenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
m,p-Xylene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
o-Xylene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Xylene (Total)	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Styrene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Bromoform	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Isopropylbenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,1,2,2-Tetrachloroethane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Bromobenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2,3-Trichloropropane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
n-Propylbenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
2-Chlorotoluene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,3,5-Trimethylbenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
4-Chlorotoluene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
tert-Butylbenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2,4-Trimethylbenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
sec-Butylbenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
4-Isopropyltoluene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,3-Dichlorobenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,4-Dichlorobenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
n-Butylbenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2-Dichlorobenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2-Dibromo-3-chloropropane	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2,4-Trichlorobenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Hexachlorobutadiene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
1,2,3-Trichlorobenzene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Naphthalene	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Diethyl ether	ND		4.7	ug/Kg	1	10/03/2015 0:36	83210
Tetrahydrofuran	ND		9.4	ug/Kg	1	10/03/2015 0:36	83210
Surrogate: Dibromofluoromethane	95.0		76-128	%REC	1	10/03/2015 0:36	83210
Surrogate: 1,2-Dichloroethane-d4	93.2		88-110	%REC	1	10/03/2015 0:36	83210
Surrogate: Toluene-d8	106		85-115	%REC	1	10/03/2015 0:36	83210
Surrogate: Bromofluorobenzene	96.0		85-120	%REC	1	10/03/2015 0:36	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03 **Project:** Barrington, RI site
Lab ID: P1456-15 **Collection Date:** 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Chloromethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Vinyl chloride	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Bromomethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Chloroethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Trichlorofluoromethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,1-Dichloroethene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Acetone	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Carbon disulfide	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Methylene chloride	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Methyl tert-butyl ether	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,1-Dichloroethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
2-Butanone	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
2,2-Dichloropropane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Bromochloromethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Chloroform	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,1,1-Trichloroethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,1-Dichloropropene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Carbon tetrachloride	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2-Dichloroethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Benzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Trichloroethene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2-Dichloropropane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Dibromomethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Bromodichloromethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
4-Methyl-2-pentanone	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Toluene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,1,2-Trichloroethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,3-Dichloropropane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Tetrachloroethene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
2-Hexanone	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Dibromochloromethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2-Dibromoethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Chlorobenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03 **Project:** Barrington, RI site
Lab ID: P1456-15 **Collection Date:** 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Ethylbenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
m,p-Xylene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
o-Xylene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Xylene (Total)	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Styrene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Bromoform	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Isopropylbenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Bromobenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2,3-Trichloropropane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
n-Propylbenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
2-Chlorotoluene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
4-Chlorotoluene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
tert-Butylbenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
sec-Butylbenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
4-Isopropyltoluene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,3-Dichlorobenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,4-Dichlorobenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
n-Butylbenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2-Dichlorobenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2-Dibromo-3-chloropropane	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Hexachlorobutadiene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Naphthalene	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Diethyl ether	ND		3.7	ug/Kg	1	10/03/2015 1:02	83210
Tetrahydrofuran	ND		7.5	ug/Kg	1	10/03/2015 1:02	83210
Surrogate: Dibromofluoromethane	94.5		76-128	%REC	1	10/03/2015 1:02	83210
Surrogate: 1,2-Dichloroethane-d4	98.6		88-110	%REC	1	10/03/2015 1:02	83210
Surrogate: Toluene-d8	106		85-115	%REC	1	10/03/2015 1:02	83210
Surrogate: Bromofluorobenzene	99.0		85-120	%REC	1	10/03/2015 1:02	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002 **Project:** Barrington, RI site
Lab ID: P1456-16 **Collection Date:** 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Chloromethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Vinyl chloride	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Bromomethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Chloroethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Trichlorofluoromethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,1-Dichloroethene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Acetone	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Carbon disulfide	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Methylene chloride	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
trans-1,2-Dichloroethene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Methyl tert-butyl ether	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,1-Dichloroethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
2-Butanone	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
cis-1,2-Dichloroethene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
2,2-Dichloropropane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Bromochloromethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Chloroform	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,1,1-Trichloroethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,1-Dichloropropene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Carbon tetrachloride	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2-Dichloroethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Benzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Trichloroethene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2-Dichloropropane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Dibromomethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Bromodichloromethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
cis-1,3-Dichloropropene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
4-Methyl-2-pentanone	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Toluene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
trans-1,3-Dichloropropene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,1,2-Trichloroethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,3-Dichloropropane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Tetrachloroethene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
2-Hexanone	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Dibromochloromethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2-Dibromoethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Chlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002 **Project:** Barrington, RI site
Lab ID: P1456-16 **Collection Date:** 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Ethylbenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
m,p-Xylene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
o-Xylene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Xylene (Total)	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Styrene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Bromoform	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Isopropylbenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,1,2,2-Tetrachloroethane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Bromobenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2,3-Trichloropropane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
n-Propylbenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
2-Chlorotoluene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,3,5-Trimethylbenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
4-Chlorotoluene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
tert-Butylbenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2,4-Trimethylbenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
sec-Butylbenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
4-Isopropyltoluene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,3-Dichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,4-Dichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
n-Butylbenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2-Dichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2-Dibromo-3-chloropropane	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2,4-Trichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Hexachlorobutadiene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
1,2,3-Trichlorobenzene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Naphthalene	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Diethyl ether	ND		4.0	ug/Kg	1	10/03/2015 1:27	83210
Tetrahydrofuran	ND		7.9	ug/Kg	1	10/03/2015 1:27	83210
Surrogate: Dibromofluoromethane	97.7		76-128	%REC	1	10/03/2015 1:27	83210
Surrogate: 1,2-Dichloroethane-d4	98.0		88-110	%REC	1	10/03/2015 1:27	83210
Surrogate: Toluene-d8	107		85-115	%REC	1	10/03/2015 1:27	83210
Surrogate: Bromofluorobenzene	98.0		85-120	%REC	1	10/03/2015 1:27	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416 **Project:** Barrington, RI site
Lab ID: P1456-17 **Collection Date:** 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Chloromethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Vinyl chloride	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Bromomethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Chloroethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Trichlorofluoromethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,1-Dichloroethene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Acetone	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Carbon disulfide	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Methylene chloride	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
trans-1,2-Dichloroethene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Methyl tert-butyl ether	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,1-Dichloroethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
2-Butanone	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
cis-1,2-Dichloroethene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
2,2-Dichloropropane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Bromochloromethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Chloroform	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,1,1-Trichloroethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,1-Dichloropropene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Carbon tetrachloride	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2-Dichloroethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Benzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Trichloroethene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2-Dichloropropane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Dibromomethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Bromodichloromethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
cis-1,3-Dichloropropene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
4-Methyl-2-pentanone	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Toluene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
trans-1,3-Dichloropropene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,1,2-Trichloroethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,3-Dichloropropane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Tetrachloroethene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
2-Hexanone	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Dibromochloromethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2-Dibromoethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Chlorobenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416
Lab ID: P1456-17
Project: Barrington, RI site
Collection Date: 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Ethylbenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
m,p-Xylene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
o-Xylene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Xylene (Total)	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Styrene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Bromoform	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Isopropylbenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,1,2,2-Tetrachloroethane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Bromobenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2,3-Trichloropropane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
n-Propylbenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
2-Chlorotoluene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,3,5-Trimethylbenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
4-Chlorotoluene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
tert-Butylbenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2,4-Trimethylbenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
sec-Butylbenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
4-Isopropyltoluene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,3-Dichlorobenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,4-Dichlorobenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
n-Butylbenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2-Dichlorobenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2-Dibromo-3-chloropropane	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2,4-Trichlorobenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Hexachlorobutadiene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
1,2,3-Trichlorobenzene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Naphthalene	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Diethyl ether	ND		4.3	ug/Kg	1	10/03/2015 1:52	83210
Tetrahydrofuran	ND		8.6	ug/Kg	1	10/03/2015 1:52	83210
Surrogate: Dibromofluoromethane	96.8		76-128	%REC	1	10/03/2015 1:52	83210
Surrogate: 1,2-Dichloroethane-d4	98.4		88-110	%REC	1	10/03/2015 1:52	83210
Surrogate: Toluene-d8	105		85-115	%REC	1	10/03/2015 1:52	83210
Surrogate: Bromofluorobenzene	99.8		85-120	%REC	1	10/03/2015 1:52	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002 **Project:** Barrington, RI site
Lab ID: P1456-18 **Collection Date:** 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Chloromethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Vinyl chloride	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Bromomethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Chloroethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Trichlorofluoromethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,1-Dichloroethene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Acetone	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Carbon disulfide	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Methylene chloride	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
trans-1,2-Dichloroethene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Methyl tert-butyl ether	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,1-Dichloroethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
2-Butanone	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
cis-1,2-Dichloroethene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
2,2-Dichloropropane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Bromochloromethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Chloroform	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,1,1-Trichloroethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,1-Dichloropropene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Carbon tetrachloride	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2-Dichloroethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Benzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Trichloroethene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2-Dichloropropane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Dibromomethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Bromodichloromethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
cis-1,3-Dichloropropene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
4-Methyl-2-pentanone	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Toluene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
trans-1,3-Dichloropropene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,1,2-Trichloroethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,3-Dichloropropane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Tetrachloroethene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
2-Hexanone	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Dibromochloromethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2-Dibromoethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Chlorobenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002 **Project:** Barrington, RI site
Lab ID: P1456-18 **Collection Date:** 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Ethylbenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
m,p-Xylene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
o-Xylene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Xylene (Total)	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Styrene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Bromoform	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Isopropylbenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,1,2,2-Tetrachloroethane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Bromobenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2,3-Trichloropropane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
n-Propylbenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
2-Chlorotoluene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,3,5-Trimethylbenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
4-Chlorotoluene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
tert-Butylbenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2,4-Trimethylbenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
sec-Butylbenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
4-Isopropyltoluene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,3-Dichlorobenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,4-Dichlorobenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
n-Butylbenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2-Dichlorobenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2-Dibromo-3-chloropropane	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2,4-Trichlorobenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Hexachlorobutadiene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
1,2,3-Trichlorobenzene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Naphthalene	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Diethyl ether	ND		4.5	ug/Kg	1	10/03/2015 2:17	83210
Tetrahydrofuran	ND		9.1	ug/Kg	1	10/03/2015 2:17	83210
Surrogate: Dibromofluoromethane	95.5		76-128	%REC	1	10/03/2015 2:17	83210
Surrogate: 1,2-Dichloroethane-d4	94.6		88-110	%REC	1	10/03/2015 2:17	83210
Surrogate: Toluene-d8	105		85-115	%REC	1	10/03/2015 2:17	83210
Surrogate: Bromofluorobenzene	97.4		85-120	%REC	1	10/03/2015 2:17	83210

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83185** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 9:12** Run ID: **V1_151002A**

Client ID: **MB-83185** Batch ID: **83185** Units: **ug/Kg** Analysis Date: **10/02/15 10:22** SeqNo: **2312399**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.98	5.0									
Chloromethane	ND	0.80	5.0									
Vinyl chloride	ND	0.63	5.0									
Bromomethane	ND	1.1	5.0									
Chloroethane	ND	1.0	5.0									
Trichlorofluoromethane	ND	0.42	5.0									
1,1-Dichloroethene	ND	0.95	5.0									
Acetone	ND	1.6	5.0									
Carbon disulfide	ND	0.30	5.0									
Methylene chloride	ND	1.3	5.0									
trans-1,2-Dichloroethene	ND	0.53	5.0									
Methyl tert-butyl ether	ND	0.61	5.0									
1,1-Dichloroethane	ND	0.67	5.0									
2-Butanone	ND	2.0	5.0									
cis-1,2-Dichloroethene	ND	0.75	5.0									
2,2-Dichloropropane	ND	0.29	5.0									
Bromochloromethane	ND	0.76	5.0									
Chloroform	ND	0.64	5.0									
1,1,1-Trichloroethane	ND	0.53	5.0									
1,1-Dichloropropene	ND	0.81	5.0									
Carbon tetrachloride	ND	0.33	5.0									
1,2-Dichloroethane	ND	0.54	5.0									
Benzene	ND	0.61	5.0									
Trichloroethene	ND	0.62	5.0									
1,2-Dichloropropane	ND	0.69	5.0									
Dibromomethane	ND	0.58	5.0									
Bromodichloromethane	ND	0.97	5.0									
cis-1,3-Dichloropropene	ND	0.67	5.0									
4-Methyl-2-pentanone	ND	0.73	5.0									
Toluene	ND	0.47	5.0									
trans-1,3-Dichloropropene	ND	0.68	5.0									
1,1,2-Trichloroethane	ND	0.48	5.0									
1,3-Dichloropropane	ND	0.87	5.0									
Tetrachloroethene	ND	0.62	5.0									
2-Hexanone	ND	0.83	5.0									
Dibromochloromethane	ND	0.65	5.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83185** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 9:12** Run ID: **V1_151002A**
Client ID: **MB-83185** Batch ID: **83185** Units: **ug/Kg** Analysis Date: **10/02/15 10:22** SeqNo: **2312399**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.74	5.0									
Chlorobenzene	ND	0.51	5.0									
1,1,1,2-Tetrachloroethane	ND	0.77	5.0									
Ethylbenzene	ND	0.50	5.0									
m,p-Xylene	ND	1.6	5.0									
o-Xylene	ND	0.47	5.0									
Xylene (Total)	ND	0.47	5.0									
Styrene	ND	0.52	5.0									
Bromoform	ND	2.0	5.0									
Isopropylbenzene	ND	0.58	5.0									
1,1,2,2-Tetrachloroethane	ND	0.68	5.0									
Bromobenzene	ND	0.58	5.0									
1,2,3-Trichloropropane	ND	0.87	5.0									
n-Propylbenzene	ND	0.44	5.0									
2-Chlorotoluene	ND	0.74	5.0									
1,3,5-Trimethylbenzene	ND	0.61	5.0									
4-Chlorotoluene	ND	0.84	5.0									
tert-Butylbenzene	ND	0.52	5.0									
1,2,4-Trimethylbenzene	ND	0.57	5.0									
sec-Butylbenzene	ND	0.62	5.0									
4-Isopropyltoluene	ND	0.71	5.0									
1,3-Dichlorobenzene	ND	0.70	5.0									
1,4-Dichlorobenzene	ND	0.80	5.0									
n-Butylbenzene	ND	0.67	5.0									
1,2-Dichlorobenzene	ND	0.62	5.0									
1,2-Dibromo-3-chloropropane	ND	1.3	5.0									
1,2,4-Trichlorobenzene	ND	0.63	5.0									
Hexachlorobutadiene	ND	0.62	5.0									
1,2,3-Trichlorobenzene	ND	0.64	5.0									
Naphthalene	ND	0.78	5.0									
Diethyl ether	ND	1.3	5.0									
Surrogate: Dibromofluoromethane	47.89		5.0	50.00	0	95.8	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	45.84		5.0	50.00	0	91.7	88	110	0			
Surrogate: Toluene-d8	51.97		5.0	50.00	0	104	85	115	0			
Surrogate: Bromofluorobenzene	49.27		5.0	50.00	0	98.5	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83210** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **MB-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/02/15 22:57** SeqNo: **2312425**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.98	5.0									
Chloromethane	ND	0.80	5.0									
Vinyl chloride	ND	0.63	5.0									
Bromomethane	ND	1.1	5.0									
Chloroethane	ND	1.0	5.0									
Trichlorofluoromethane	ND	0.42	5.0									
1,1-Dichloroethene	ND	0.95	5.0									
Acetone	ND	1.6	5.0									
Carbon disulfide	ND	0.30	5.0									
Methylene chloride	ND	1.3	5.0									
trans-1,2-Dichloroethene	ND	0.53	5.0									
Methyl tert-butyl ether	ND	0.61	5.0									
1,1-Dichloroethane	ND	0.67	5.0									
2-Butanone	ND	2.0	5.0									
cis-1,2-Dichloroethene	ND	0.75	5.0									
2,2-Dichloropropane	ND	0.29	5.0									
Bromochloromethane	ND	0.76	5.0									
Chloroform	ND	0.64	5.0									
1,1,1-Trichloroethane	ND	0.53	5.0									
1,1-Dichloropropene	ND	0.81	5.0									
Carbon tetrachloride	ND	0.33	5.0									
1,2-Dichloroethane	ND	0.54	5.0									
Benzene	ND	0.61	5.0									
Trichloroethene	ND	0.62	5.0									
1,2-Dichloropropane	ND	0.69	5.0									
Dibromomethane	ND	0.58	5.0									
Bromodichloromethane	ND	0.97	5.0									
cis-1,3-Dichloropropene	ND	0.67	5.0									
4-Methyl-2-pentanone	ND	0.73	5.0									
Toluene	ND	0.47	5.0									
trans-1,3-Dichloropropene	ND	0.68	5.0									
1,1,2-Trichloroethane	ND	0.48	5.0									
1,3-Dichloropropane	ND	0.87	5.0									
Tetrachloroethene	ND	0.62	5.0									
2-Hexanone	ND	0.83	5.0									
Dibromochloromethane	ND	0.65	5.0									
1,2-Dibromoethane	ND	0.74	5.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83210** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **MB-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/02/15 22:57** SeqNo: **2312425**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	ND	0.51	5.0									
1,1,1,2-Tetrachloroethane	ND	0.77	5.0									
Ethylbenzene	ND	0.50	5.0									
m,p-Xylene	ND	1.6	5.0									
o-Xylene	ND	0.47	5.0									
Xylene (Total)	ND	0.47	5.0									
Styrene	ND	0.52	5.0									
Bromoform	ND	2.0	5.0									
Isopropylbenzene	ND	0.58	5.0									
1,1,2,2-Tetrachloroethane	ND	0.68	5.0									
Bromobenzene	ND	0.58	5.0									
1,2,3-Trichloropropane	ND	0.87	5.0									
n-Propylbenzene	ND	0.44	5.0									
2-Chlorotoluene	ND	0.74	5.0									
1,3,5-Trimethylbenzene	ND	0.61	5.0									
4-Chlorotoluene	ND	0.84	5.0									
tert-Butylbenzene	ND	0.52	5.0									
1,2,4-Trimethylbenzene	ND	0.57	5.0									
sec-Butylbenzene	ND	0.62	5.0									
4-Isopropyltoluene	ND	0.71	5.0									
1,3-Dichlorobenzene	ND	0.70	5.0									
1,4-Dichlorobenzene	ND	0.80	5.0									
n-Butylbenzene	ND	0.67	5.0									
1,2-Dichlorobenzene	ND	0.62	5.0									
1,2-Dibromo-3-chloropropane	ND	1.3	5.0									
1,2,4-Trichlorobenzene	ND	0.63	5.0									
Hexachlorobutadiene	ND	0.62	5.0									
1,2,3-Trichlorobenzene	ND	0.64	5.0									
Naphthalene	ND	0.78	5.0									
Diethyl ether	ND	1.3	5.0									
Tetrahydrofuran	ND	4.6	10									
Surrogate: Dibromofluoromethane	48.47		5.0	50.00	0	96.9	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	46.15		5.0	50.00	0	92.3	88	110	0			
Surrogate: Toluene-d8	53.29		5.0	50.00	0	107	85	115	0			
Surrogate: Bromofluorobenzene	47.45		5.0	50.00	0	94.9	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83185** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 9:12** Run ID: **V1_151002A**
Client ID: **LCS-83185** Batch ID: **83185** Units: **ug/Kg** Analysis Date: **10/02/15 9:32** SeqNo: **2312398**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	37.27	0.98	5.0	50.00	0	74.5	35	135	0			
Chloromethane	44.37	0.80	5.0	50.00	0	88.7	50	130	0			
Vinyl chloride	45.07	0.63	5.0	50.00	0	90.1	60	125	0			
Bromomethane	42.46	1.1	5.0	50.00	0	84.9	30	160	0			
Chloroethane	45.94	1.0	5.0	50.00	0	91.9	40	155	0			
Trichlorofluoromethane	45.80	0.42	5.0	50.00	0	91.6	25	185	0			
1,1-Dichloroethene	42.35	0.95	5.0	50.00	0	84.7	65	135	0			
Acetone	40.14	1.6	5.0	50.00	0	80.3	20	160	0			
Carbon disulfide	44.94	0.30	5.0	50.00	0	89.9	45	160	0			
Methylene chloride	46.86	1.3	5.0	50.00	0	93.7	55	140	0			
trans-1,2-Dichloroethene	43.27	0.53	5.0	50.00	0	86.5	65	135	0			
Methyl tert-butyl ether	43.27	0.61	5.0	50.00	0	86.5	75	126	0			
1,1-Dichloroethane	48.09	0.67	5.0	50.00	0	96.2	75	125	0			
2-Butanone	42.34	2.0	5.0	50.00	0	84.7	30	160	0			
cis-1,2-Dichloroethene	47.69	0.75	5.0	50.00	0	95.4	65	125	0			
2,2-Dichloropropane	41.95	0.29	5.0	50.00	0	83.9	65	135	0			
Bromochloromethane	47.99	0.76	5.0	50.00	0	96.0	70	125	0			
Chloroform	47.39	0.64	5.0	50.00	0	94.8	70	125	0			
1,1,1-Trichloroethane	44.81	0.53	5.0	50.00	0	89.6	70	135	0			
1,1-Dichloropropene	42.31	0.81	5.0	50.00	0	84.6	70	135	0			
Carbon tetrachloride	46.03	0.33	5.0	50.00	0	92.1	65	135	0			
1,2-Dichloroethane	44.83	0.54	5.0	50.00	0	89.7	70	135	0			
Benzene	45.74	0.61	5.0	50.00	0	91.5	75	125	0			
Trichloroethene	42.96	0.62	5.0	50.00	0	85.9	75	125	0			
1,2-Dichloropropane	45.71	0.69	5.0	50.00	0	91.4	70	120	0			
Dibromomethane	44.57	0.58	5.0	50.00	0	89.1	75	130	0			
Bromodichloromethane	46.17	0.97	5.0	50.00	0	92.3	70	130	0			
cis-1,3-Dichloropropene	44.80	0.67	5.0	50.00	0	89.6	70	125	0			
4-Methyl-2-pentanone	40.45	0.73	5.0	50.00	0	80.9	45	145	0			
Toluene	45.60	0.47	5.0	50.00	0	91.2	70	125	0			
trans-1,3-Dichloropropene	45.52	0.68	5.0	50.00	0	91.0	65	125	0			
1,1,2-Trichloroethane	44.62	0.48	5.0	50.00	0	89.2	60	125	0			
1,3-Dichloropropane	51.11	0.87	5.0	50.00	0	102	75	125	0			
Tetrachloroethene	51.39	0.62	5.0	50.00	0	103	65	140	0			
2-Hexanone	44.77	0.83	5.0	50.00	0	89.5	45	145	0			
Dibromochloromethane	52.20	0.65	5.0	50.00	0	104	65	130	0			
1,2-Dibromoethane	51.45	0.74	5.0	50.00	0	103	70	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83185** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 9:12** Run ID: **V1_151002A**
Client ID: **LCS-83185** Batch ID: **83185** Units: **ug/Kg** Analysis Date: **10/02/15 9:32** SeqNo: **2312398**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	53.54	0.51	5.0	50.00	0	107	75	125	0			
1,1,1,2-Tetrachloroethane	51.79	0.77	5.0	50.00	0	104	75	125	0			
Ethylbenzene	51.73	0.50	5.0	50.00	0	103	75	125	0			
m,p-Xylene	106.1	1.6	5.0	100.0	0	106	80	125	0			
o-Xylene	52.93	0.47	5.0	50.00	0	106	75	125	0			
Xylene (Total)	159.0	0.47	5.0	150.0	0	106	83	125	0			
Styrene	52.79	0.52	5.0	50.00	0	106	75	125	0			
Bromoform	51.65	2.0	5.0	50.00	0	103	55	135	0			
Isopropylbenzene	51.50	0.58	5.0	50.00	0	103	75	130	0			
1,1,2,2-Tetrachloroethane	51.84	0.68	5.0	50.00	0	104	55	130	0			
Bromobenzene	55.20	0.58	5.0	50.00	0	110	65	120	0			
1,2,3-Trichloropropane	52.70	0.87	5.0	50.00	0	105	65	130	0			
n-Propylbenzene	49.34	0.44	5.0	50.00	0	98.7	65	135	0			
2-Chlorotoluene	58.04	0.74	5.0	50.00	0	116	70	130	0			
1,3,5-Trimethylbenzene	54.22	0.61	5.0	50.00	0	108	65	135	0			
4-Chlorotoluene	58.41	0.84	5.0	50.00	0	117	75	125	0			
tert-Butylbenzene	54.79	0.52	5.0	50.00	0	110	65	130	0			
1,2,4-Trimethylbenzene	54.91	0.57	5.0	50.00	0	110	65	135	0			
sec-Butylbenzene	53.39	0.62	5.0	50.00	0	107	65	130	0			
4-Isopropyltoluene	54.17	0.71	5.0	50.00	0	108	75	135	0			
1,3-Dichlorobenzene	54.29	0.70	5.0	50.00	0	109	70	125	0			
1,4-Dichlorobenzene	56.13	0.80	5.0	50.00	0	112	70	125	0			
n-Butylbenzene	52.60	0.67	5.0	50.00	0	105	65	140	0			
1,2-Dichlorobenzene	54.41	0.62	5.0	50.00	0	109	75	120	0			
1,2-Dibromo-3-chloropropane	46.48	1.3	5.0	50.00	0	93.0	40	135	0			
1,2,4-Trichlorobenzene	52.86	0.63	5.0	50.00	0	106	65	130	0			
Hexachlorobutadiene	50.92	0.62	5.0	50.00	0	102	55	140	0			
1,2,3-Trichlorobenzene	50.45	0.64	5.0	50.00	0	101	60	135	0			
Naphthalene	48.79	0.78	5.0	50.00	0	97.6	40	125	0			
Diethyl ether	46.02	1.3	5.0	50.00	0	92.0	70	130	0			
Surrogate: Dibromofluoromethane	46.34		5.0	50.00	0	92.7	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	47.06		5.0	50.00	0	94.1	88	110	0			
Surrogate: Toluene-d8	53.40		5.0	50.00	0	107	85	115	0			
Surrogate: Bromofluorobenzene	48.57		5.0	50.00	0	97.1	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83210** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **LCS-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/02/15 21:42** SeqNo: **2312423**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	36.53	0.98	5.0	50.00	0	73.1	35	135	0			
Chloromethane	45.87	0.80	5.0	50.00	0	91.7	50	130	0			
Vinyl chloride	44.11	0.63	5.0	50.00	0	88.2	60	125	0			
Bromomethane	41.94	1.1	5.0	50.00	0	83.9	30	160	0			
Chloroethane	43.11	1.0	5.0	50.00	0	86.2	40	155	0			
Trichlorofluoromethane	44.03	0.42	5.0	50.00	0	88.1	25	185	0			
1,1-Dichloroethene	40.97	0.95	5.0	50.00	0	81.9	65	135	0			
Acetone	41.07	1.6	5.0	50.00	0	82.1	20	160	0			
Carbon disulfide	42.78	0.30	5.0	50.00	0	85.6	45	160	0			
Methylene chloride	48.82	1.3	5.0	50.00	0	97.6	55	140	0			
trans-1,2-Dichloroethene	45.34	0.53	5.0	50.00	0	90.7	65	135	0			
Methyl tert-butyl ether	49.03	0.61	5.0	50.00	0	98.1	75	126	0			
1,1-Dichloroethane	44.59	0.67	5.0	50.00	0	89.2	75	125	0			
2-Butanone	43.11	2.0	5.0	50.00	0	86.2	30	160	0			
cis-1,2-Dichloroethene	47.86	0.75	5.0	50.00	0	95.7	65	125	0			
2,2-Dichloropropane	41.15	0.29	5.0	50.00	0	82.3	65	135	0			
Bromochloromethane	51.08	0.76	5.0	50.00	0	102	70	125	0			
Chloroform	50.48	0.64	5.0	50.00	0	101	70	125	0			
1,1,1-Trichloroethane	43.54	0.53	5.0	50.00	0	87.1	70	135	0			
1,1-Dichloropropene	40.37	0.81	5.0	50.00	0	80.7	70	135	0			
Carbon tetrachloride	41.84	0.33	5.0	50.00	0	83.7	65	135	0			
1,2-Dichloroethane	49.77	0.54	5.0	50.00	0	99.5	70	135	0			
Benzene	46.80	0.61	5.0	50.00	0	93.6	75	125	0			
Trichloroethene	40.82	0.62	5.0	50.00	0	81.6	75	125	0			
1,2-Dichloropropane	49.56	0.69	5.0	50.00	0	99.1	70	120	0			
Dibromomethane	49.37	0.58	5.0	50.00	0	98.7	75	130	0			
Bromodichloromethane	49.36	0.97	5.0	50.00	0	98.7	70	130	0			
cis-1,3-Dichloropropene	48.52	0.67	5.0	50.00	0	97.0	70	125	0			
4-Methyl-2-pentanone	48.79	0.73	5.0	50.00	0	97.6	45	145	0			
Toluene	47.63	0.47	5.0	50.00	0	95.3	70	125	0			
trans-1,3-Dichloropropene	49.32	0.68	5.0	50.00	0	98.6	65	125	0			
1,1,2-Trichloroethane	50.18	0.48	5.0	50.00	0	100	60	125	0			
1,3-Dichloropropane	58.44	0.87	5.0	50.00	0	117	75	125	0			
Tetrachloroethene	57.96	0.62	5.0	50.00	0	116	65	140	0			
2-Hexanone	49.47	0.83	5.0	50.00	0	98.9	45	145	0			
Dibromochloromethane	56.55	0.65	5.0	50.00	0	113	65	130	0			
1,2-Dibromoethane	56.75	0.74	5.0	50.00	0	113	70	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83210** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **LCS-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/02/15 21:42** SeqNo: **2312423**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	55.32	0.51	5.0	50.00	0	111	75	125	0			
1,1,1,2-Tetrachloroethane	55.99	0.77	5.0	50.00	0	112	75	125	0			
Ethylbenzene	53.12	0.50	5.0	50.00	0	106	75	125	0			
m,p-Xylene	104.4	1.6	5.0	100.0	0	104	80	125	0			
o-Xylene	54.95	0.47	5.0	50.00	0	110	75	125	0			
Xylene (Total)	159.4	0.47	5.0	150.0	0	106	83	125	0			
Styrene	56.56	0.52	5.0	50.00	0	113	75	125	0			
Bromoform	54.67	2.0	5.0	50.00	0	109	55	135	0			
Isopropylbenzene	51.28	0.58	5.0	50.00	0	103	75	130	0			
1,1,2,2-Tetrachloroethane	55.68	0.68	5.0	50.00	0	111	55	130	0			
Bromobenzene	57.86	0.58	5.0	50.00	0	116	65	120	0			
1,2,3-Trichloropropane	58.09	0.87	5.0	50.00	0	116	65	130	0			
n-Propylbenzene	51.37	0.44	5.0	50.00	0	103	65	135	0			
2-Chlorotoluene	55.99	0.74	5.0	50.00	0	112	70	130	0			
1,3,5-Trimethylbenzene	54.05	0.61	5.0	50.00	0	108	65	135	0			
4-Chlorotoluene	56.53	0.84	5.0	50.00	0	113	75	125	0			
tert-Butylbenzene	50.78	0.52	5.0	50.00	0	102	65	130	0			
1,2,4-Trimethylbenzene	54.92	0.57	5.0	50.00	0	110	65	135	0			
sec-Butylbenzene	50.46	0.62	5.0	50.00	0	101	65	130	0			
4-Isopropyltoluene	51.74	0.71	5.0	50.00	0	103	75	135	0			
1,3-Dichlorobenzene	54.64	0.70	5.0	50.00	0	109	70	125	0			
1,4-Dichlorobenzene	55.02	0.80	5.0	50.00	0	110	70	125	0			
n-Butylbenzene	48.55	0.67	5.0	50.00	0	97.1	65	140	0			
1,2-Dichlorobenzene	56.34	0.62	5.0	50.00	0	113	75	120	0			
1,2-Dibromo-3-chloropropane	49.48	1.3	5.0	50.00	0	99.0	40	135	0			
1,2,4-Trichlorobenzene	51.58	0.63	5.0	50.00	0	103	65	130	0			
Hexachlorobutadiene	44.01	0.62	5.0	50.00	0	88.0	55	140	0			
1,2,3-Trichlorobenzene	51.59	0.64	5.0	50.00	0	103	60	135	0			
Naphthalene	52.66	0.78	5.0	50.00	0	105	40	125	0			
Diethyl ether	51.75	1.3	5.0	50.00	0	103	70	130	0			
Tetrahydrofuran	98.01	4.6	10	100.0	0	98.0	70	130	0			
Surrogate: Dibromofluoromethane	46.74		5.0	50.00	0	93.5	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	52.60		5.0	50.00	0	105	88	110	0			
Surrogate: Toluene-d8	52.76		5.0	50.00	0	106	85	115	0			
Surrogate: Bromofluorobenzene	48.95		5.0	50.00	0	97.9	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83210** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **LCSD-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/02/15 22:07** SeqNo: **2312424**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	40.04	0.98	5.0	50.00	0	80.1	35	135	36.53	9.16	40	
Chloromethane	45.48	0.80	5.0	50.00	0	91.0	50	130	45.87	0.846	40	
Vinyl chloride	45.02	0.63	5.0	50.00	0	90.0	60	125	44.11	2.04	40	
Bromomethane	42.85	1.1	5.0	50.00	0	85.7	30	160	41.94	2.14	40	
Chloroethane	42.35	1.0	5.0	50.00	0	84.7	40	155	43.11	1.79	40	
Trichlorofluoromethane	43.79	0.42	5.0	50.00	0	87.6	25	185	44.03	0.549	40	
1,1-Dichloroethene	42.68	0.95	5.0	50.00	0	85.4	65	135	40.97	4.08	40	
Acetone	40.49	1.6	5.0	50.00	0	81.0	20	160	41.07	1.43	40	
Carbon disulfide	43.53	0.30	5.0	50.00	0	87.1	45	160	42.78	1.73	40	
Methylene chloride	48.77	1.3	5.0	50.00	0	97.5	55	140	48.82	0.104	40	
trans-1,2-Dichloroethene	47.51	0.53	5.0	50.00	0	95.0	65	135	45.34	4.66	40	
Methyl tert-butyl ether	47.85	0.61	5.0	50.00	0	95.7	75	126	49.03	2.43	40	
1,1-Dichloroethane	49.17	0.67	5.0	50.00	0	98.3	75	125	44.59	9.77	40	
2-Butanone	40.61	2.0	5.0	50.00	0	81.2	30	160	43.11	5.98	40	
cis-1,2-Dichloroethene	48.05	0.75	5.0	50.00	0	96.1	65	125	47.86	0.377	40	
2,2-Dichloropropane	44.17	0.29	5.0	50.00	0	88.3	65	135	41.15	7.08	40	
Bromochloromethane	51.80	0.76	5.0	50.00	0	104	70	125	51.08	1.4	40	
Chloroform	51.03	0.64	5.0	50.00	0	102	70	125	50.48	1.07	40	
1,1,1-Trichloroethane	45.42	0.53	5.0	50.00	0	90.8	70	135	43.54	4.22	40	
1,1-Dichloropropene	41.81	0.81	5.0	50.00	0	83.6	70	135	40.37	3.49	40	
Carbon tetrachloride	43.87	0.33	5.0	50.00	0	87.7	65	135	41.84	4.74	40	
1,2-Dichloroethane	50.71	0.54	5.0	50.00	0	101	70	135	49.77	1.88	40	
Benzene	48.14	0.61	5.0	50.00	0	96.3	75	125	46.80	2.83	40	
Trichloroethene	39.58	0.62	5.0	50.00	0	79.2	75	125	40.82	3.1	40	
1,2-Dichloropropane	44.44	0.69	5.0	50.00	0	88.9	70	120	49.56	10.9	40	
Dibromomethane	48.70	0.58	5.0	50.00	0	97.4	75	130	49.37	1.38	40	
Bromodichloromethane	49.91	0.97	5.0	50.00	0	99.8	70	130	49.36	1.1	40	
cis-1,3-Dichloropropene	47.88	0.67	5.0	50.00	0	95.8	70	125	48.52	1.33	40	
4-Methyl-2-pentanone	45.12	0.73	5.0	50.00	0	90.2	45	145	48.79	7.8	40	
Toluene	47.50	0.47	5.0	50.00	0	95.0	70	125	47.63	0.276	40	
trans-1,3-Dichloropropene	47.85	0.68	5.0	50.00	0	95.7	65	125	49.32	3.03	40	
1,1,2-Trichloroethane	50.05	0.48	5.0	50.00	0	100	60	125	50.18	0.257	40	
1,3-Dichloropropane	56.27	0.87	5.0	50.00	0	113	75	125	58.44	3.77	40	
Tetrachloroethene	62.75	0.62	5.0	50.00	0	125	65	140	57.96	7.93	40	
2-Hexanone	46.45	0.83	5.0	50.00	0	92.9	45	145	49.47	6.29	40	
Dibromochloromethane	56.37	0.65	5.0	50.00	0	113	65	130	56.55	0.324	40	
1,2-Dibromoethane	55.45	0.74	5.0	50.00	0	111	70	125	56.75	2.31	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83210** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **LCSD-83210** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/02/15 22:07** SeqNo: **2312424**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	55.47	0.51	5.0	50.00	0	111	75	125	55.32	0.278	40	
1,1,1,2-Tetrachloroethane	56.15	0.77	5.0	50.00	0	112	75	125	55.99	0.281	40	
Ethylbenzene	54.35	0.50	5.0	50.00	0	109	75	125	53.12	2.3	40	
m,p-Xylene	106.8	1.6	5.0	100.0	0	107	80	125	104.4	2.21	40	
o-Xylene	56.42	0.47	5.0	50.00	0	113	75	125	54.95	2.65	40	
Xylene (Total)	163.2	0.47	5.0	150.0	0	109	83	125	159.4	2.36	40	
Styrene	55.55	0.52	5.0	50.00	0	111	75	125	56.56	1.81	40	
Bromoform	55.16	2.0	5.0	50.00	0	110	55	135	54.67	0.889	40	
Isopropylbenzene	52.91	0.58	5.0	50.00	0	106	75	130	51.28	3.14	40	
1,1,2,2-Tetrachloroethane	56.06	0.68	5.0	50.00	0	112	55	130	55.68	0.683	40	
Bromobenzene	56.95	0.58	5.0	50.00	0	114	65	120	57.86	1.59	40	
1,2,3-Trichloropropane	53.86	0.87	5.0	50.00	0	108	65	130	58.09	7.57	40	
n-Propylbenzene	53.29	0.44	5.0	50.00	0	107	65	135	51.37	3.67	40	
2-Chlorotoluene	57.23	0.74	5.0	50.00	0	114	70	130	55.99	2.19	40	
1,3,5-Trimethylbenzene	55.57	0.61	5.0	50.00	0	111	65	135	54.05	2.76	40	
4-Chlorotoluene	57.70	0.84	5.0	50.00	0	115	75	125	56.53	2.05	40	
tert-Butylbenzene	51.77	0.52	5.0	50.00	0	104	65	130	50.78	1.93	40	
1,2,4-Trimethylbenzene	56.05	0.57	5.0	50.00	0	112	65	135	54.92	2.03	40	
sec-Butylbenzene	51.49	0.62	5.0	50.00	0	103	65	130	50.46	2.04	40	
4-Isopropyltoluene	53.38	0.71	5.0	50.00	0	107	75	135	51.74	3.11	40	
1,3-Dichlorobenzene	55.26	0.70	5.0	50.00	0	111	70	125	54.64	1.14	40	
1,4-Dichlorobenzene	57.64	0.80	5.0	50.00	0	115	70	125	55.02	4.66	40	
n-Butylbenzene	51.03	0.67	5.0	50.00	0	102	65	140	48.55	4.98	40	
1,2-Dichlorobenzene	58.48	0.62	5.0	50.00	0	117	75	120	56.34	3.72	40	
1,2-Dibromo-3-chloropropane	52.80	1.3	5.0	50.00	0	106	40	135	49.48	6.48	40	
1,2,4-Trichlorobenzene	52.70	0.63	5.0	50.00	0	105	65	130	51.58	2.15	40	
Hexachlorobutadiene	47.67	0.62	5.0	50.00	0	95.3	55	140	44.01	7.98	40	
1,2,3-Trichlorobenzene	52.10	0.64	5.0	50.00	0	104	60	135	51.59	0.986	40	
Naphthalene	53.43	0.78	5.0	50.00	0	107	40	125	52.66	1.45	40	
Diethyl ether	50.34	1.3	5.0	50.00	0	101	70	130	51.75	2.76	40	
Tetrahydrofuran	88.99	4.6	10	100.0	0	89.0	70	130	98.01	9.64	40	
Surrogate: Dibromofluoromethane	47.53		5.0	50.00	0	95.1	76	128	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	47.05		5.0	50.00	0	94.1	88	110	0	0	40	
Surrogate: Toluene-d8	53.31		5.0	50.00	0	107	85	115	0	0	40	
Surrogate: Bromofluorobenzene	49.51		5.0	50.00	0	99.0	85	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1456-04CMS** SampType: **MS** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **NOB-103 0002** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/03/15 6:53** SeqNo: **2312444**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	27.64	0.76	3.9	38.80	0	71.2	35	135	0			
Chloromethane	26.71	0.62	3.9	38.80	0	68.8	50	130	0			
Vinyl chloride	27.51	0.49	3.9	38.80	0	70.9	60	125	0			
Bromomethane	23.69	0.85	3.9	38.80	0	61.1	30	160	0			
Chloroethane	28.16	0.78	3.9	38.80	0	72.6	40	155	0			
Trichlorofluoromethane	27.34	0.33	3.9	38.80	0	70.4	25	185	0			
1,1-Dichloroethene	27.65	0.74	3.9	38.80	0	71.3	65	135	0			
Acetone	18.54	1.2	3.9	38.80	0	47.8	20	160	0			
Carbon disulfide	27.38	0.23	3.9	38.80	0	70.6	45	160	0			
Methylene chloride	32.85	1.0	3.9	38.80	3.620	75.3	55	140	0			
trans-1,2-Dichloroethene	27.44	0.41	3.9	38.80	0	70.7	65	135	0			
Methyl tert-butyl ether	33.00	0.47	3.9	38.80	0	85.0	75	126	0			
1,1-Dichloroethane	28.73	0.52	3.9	38.80	0	74.0	75	125	0			S
2-Butanone	26.79	1.6	3.9	38.80	0	69.0	30	160	0			
cis-1,2-Dichloroethene	32.07	0.58	3.9	38.80	0	82.6	65	125	0			
2,2-Dichloropropane	25.66	0.23	3.9	38.80	0	66.1	65	135	0			
Bromochloromethane	33.95	0.59	3.9	38.80	0	87.5	70	125	0			
Chloroform	31.94	0.50	3.9	38.80	0	82.3	70	125	0			
1,1,1-Trichloroethane	25.69	0.41	3.9	38.80	0	66.2	70	135	0			S
1,1-Dichloropropene	26.88	0.63	3.9	38.80	0	69.3	70	135	0			S
Carbon tetrachloride	27.33	0.26	3.9	38.80	0	70.4	65	135	0			
1,2-Dichloroethane	32.07	0.42	3.9	38.80	0	82.6	70	135	0			
Benzene	29.80	0.47	3.9	38.80	0	76.8	75	125	0			
Trichloroethene	24.65	0.48	3.9	38.80	0	63.5	75	125	0			S
1,2-Dichloropropane	32.19	0.54	3.9	38.80	0	82.9	70	120	0			
Dibromomethane	34.60	0.45	3.9	38.80	0	89.2	75	130	0			
Bromodichloromethane	32.67	0.75	3.9	38.80	0	84.2	70	130	0			
cis-1,3-Dichloropropene	30.06	0.52	3.9	38.80	0	77.5	70	125	0			
4-Methyl-2-pentanone	33.34	0.57	3.9	38.80	0	85.9	45	145	0			
Toluene	29.46	0.36	3.9	38.80	0	75.9	70	125	0			
trans-1,3-Dichloropropene	30.35	0.53	3.9	38.80	0	78.2	65	125	0			
1,1,2-Trichloroethane	34.06	0.37	3.9	38.80	0	87.8	60	125	0			
1,3-Dichloropropane	38.41	0.68	3.9	38.80	0	99.0	75	125	0			
Tetrachloroethene	32.25	0.48	3.9	38.80	0	83.1	65	140	0			
2-Hexanone	28.74	0.64	3.9	38.80	0	74.1	45	145	0			
Dibromochloromethane	37.77	0.50	3.9	38.80	0	97.3	65	130	0			
1,2-Dibromoethane	38.68	0.57	3.9	38.80	0	99.7	70	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1456-04CMS** SampType: **MS** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **NOB-103 0002** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/03/15 6:53** SeqNo: **2312444**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	33.58	0.40	3.9	38.80	0	86.5	75	125	0			
1,1,1,2-Tetrachloroethane	34.54	0.60	3.9	38.80	0	89.0	75	125	0			
Ethylbenzene	31.60	0.39	3.9	38.80	0	81.4	75	125	0			
m,p-Xylene	63.90	1.2	3.9	77.61	0	82.3	80	125	0			
o-Xylene	34.46	0.36	3.9	38.80	0	88.8	75	125	0			
Xylene (Total)	98.36	0.36	3.9	116.4	0	84.5	83	125	0			
Styrene	32.71	0.40	3.9	38.80	0	84.3	75	125	0			
Bromoform	37.47	1.6	3.9	38.80	0	96.6	55	135	0			
Isopropylbenzene	30.12	0.45	3.9	38.80	0	77.6	75	130	0			
1,1,2,2-Tetrachloroethane	39.22	0.53	3.9	38.80	0	101	55	130	0			
Bromobenzene	34.22	0.45	3.9	38.80	0	88.2	65	120	0			
1,2,3-Trichloropropane	39.12	0.68	3.9	38.80	0	101	65	130	0			
n-Propylbenzene	28.84	0.34	3.9	38.80	0	74.3	65	135	0			
2-Chlorotoluene	32.03	0.57	3.9	38.80	0	82.6	70	130	0			
1,3,5-Trimethylbenzene	30.53	0.47	3.9	38.80	0	78.7	65	135	0			
4-Chlorotoluene	31.60	0.65	3.9	38.80	0	81.4	75	125	0			
tert-Butylbenzene	31.27	0.40	3.9	38.80	0	80.6	65	130	0			
1,2,4-Trimethylbenzene	29.80	0.44	3.9	38.80	0	76.8	65	135	0			
sec-Butylbenzene	28.86	0.48	3.9	38.80	0	74.4	65	130	0			
4-Isopropyltoluene	27.74	0.55	3.9	38.80	0	71.5	75	135	0			S
1,3-Dichlorobenzene	28.41	0.54	3.9	38.80	0	73.2	70	125	0			
1,4-Dichlorobenzene	29.03	0.62	3.9	38.80	0	74.8	70	125	0			
n-Butylbenzene	24.79	0.52	3.9	38.80	0	63.9	65	140	0			S
1,2-Dichlorobenzene	30.79	0.48	3.9	38.80	0	79.4	75	120	0			
1,2-Dibromo-3-chloropropane	38.80	1.0	3.9	38.80	0	100	40	135	0			
1,2,4-Trichlorobenzene	21.87	0.49	3.9	38.80	0	56.4	65	130	0			S
Hexachlorobutadiene	23.91	0.48	3.9	38.80	0	61.6	55	140	0			
1,2,3-Trichlorobenzene	24.27	0.50	3.9	38.80	0	62.5	60	135	0			
Naphthalene	30.49	0.61	3.9	38.80	0	78.6	40	125	0			
Diethyl ether	36.01	1.0	3.9	38.80	0	92.8	70	130	0			
Tetrahydrofuran	71.99	3.6	7.8	77.61	0	92.8	70	130	0			
Surrogate: Dibromofluoromethane	34.58		3.9	38.80	0	89.1	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	35.98		3.9	38.80	0	92.7	88	110	0			
Surrogate: Toluene-d8	40.93		3.9	38.80	0	105	85	115	0			
Surrogate: Bromofluorobenzene	39.00		3.9	38.80	0	101	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1456-04CMSD** SampType: **MSD** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **NOB-103 0002** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/03/15 7:20** SeqNo: **2312445**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	27.96	0.82	4.2	41.88	0	66.7	35	135	27.64	1.12	40	
Chloromethane	34.44	0.67	4.2	41.88	0	82.2	50	130	26.71	25.3	40	
Vinyl chloride	36.43	0.53	4.2	41.88	0	87.0	60	125	27.51	27.9	40	
Bromomethane	32.01	0.92	4.2	41.88	0	76.4	30	160	23.69	29.9	40	
Chloroethane	34.20	0.84	4.2	41.88	0	81.7	40	155	28.16	19.4	40	
Trichlorofluoromethane	35.46	0.35	4.2	41.88	0	84.7	25	185	27.34	25.9	40	
1,1-Dichloroethene	34.54	0.80	4.2	41.88	0	82.5	65	135	27.65	22.2	40	
Acetone	19.62	1.3	4.2	41.88	0	46.8	20	160	18.54	5.65	40	
Carbon disulfide	34.45	0.25	4.2	41.88	0	82.3	45	160	27.38	22.9	40	
Methylene chloride	41.10	1.1	4.2	41.88	3.620	89.5	55	140	32.85	22.3	40	
trans-1,2-Dichloroethene	35.03	0.44	4.2	41.88	0	83.6	65	135	27.44	24.3	40	
Methyl tert-butyl ether	35.66	0.51	4.2	41.88	0	85.1	75	126	33.00	7.74	40	
1,1-Dichloroethane	36.17	0.56	4.2	41.88	0	86.3	75	125	28.73	22.9	40	
2-Butanone	29.33	1.7	4.2	41.88	0	70.0	30	160	26.79	9.06	40	
cis-1,2-Dichloroethene	36.61	0.63	4.2	41.88	0	87.4	65	125	32.07	13.2	40	
2,2-Dichloropropane	29.14	0.24	4.2	41.88	0	69.6	65	135	25.66	12.7	40	
Bromochloromethane	37.39	0.64	4.2	41.88	0	89.3	70	125	33.95	9.65	40	
Chloroform	36.17	0.54	4.2	41.88	0	86.4	70	125	31.94	12.4	40	
1,1,1-Trichloroethane	34.28	0.44	4.2	41.88	0	81.8	70	135	25.69	28.6	40	
1,1-Dichloropropene	32.17	0.68	4.2	41.88	0	76.8	70	135	26.88	17.9	40	
Carbon tetrachloride	32.65	0.28	4.2	41.88	0	77.9	65	135	27.33	17.7	40	
1,2-Dichloroethane	35.74	0.45	4.2	41.88	0	85.3	70	135	32.07	10.8	40	
Benzene	35.18	0.51	4.2	41.88	0	84.0	75	125	29.80	16.5	40	
Trichloroethene	30.62	0.52	4.2	41.88	0	73.1	75	125	24.65	21.6	40	S
1,2-Dichloropropane	36.24	0.58	4.2	41.88	0	86.5	70	120	32.19	11.8	40	
Dibromomethane	38.15	0.49	4.2	41.88	0	91.1	75	130	34.60	9.75	40	
Bromodichloromethane	37.86	0.81	4.2	41.88	0	90.4	70	130	32.67	14.7	40	
cis-1,3-Dichloropropene	33.79	0.56	4.2	41.88	0	80.7	70	125	30.06	11.7	40	
4-Methyl-2-pentanone	35.20	0.61	4.2	41.88	0	84.1	45	145	33.34	5.45	40	
Toluene	35.38	0.39	4.2	41.88	0	84.5	70	125	29.46	18.3	40	
trans-1,3-Dichloropropene	33.97	0.57	4.2	41.88	0	81.1	65	125	30.35	11.2	40	
1,1,2-Trichloroethane	37.96	0.40	4.2	41.88	0	90.6	60	125	34.06	10.8	40	
1,3-Dichloropropane	43.08	0.73	4.2	41.88	0	103	75	125	38.41	11.5	40	
Tetrachloroethene	40.66	0.52	4.2	41.88	0	97.1	65	140	32.25	23.1	40	
2-Hexanone	32.39	0.70	4.2	41.88	0	77.3	45	145	28.74	12	40	
Dibromochloromethane	42.70	0.54	4.2	41.88	0	102	65	130	37.77	12.3	40	
1,2-Dibromoethane	41.86	0.62	4.2	41.88	0	99.9	70	125	38.68	7.89	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1456-04CMSD** SampType: **MSD** TestCode: **SW8260_LOW_S** Prep Date: **10/02/15 10:07** Run ID: **V1_151002B**
Client ID: **NOB-103 0002** Batch ID: **83210** Units: **ug/Kg** Analysis Date: **10/03/15 7:20** SeqNo: **2312445**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	40.05	0.43	4.2	41.88	0	95.6	75	125	33.58	17.6	40	
1,1,1,2-Tetrachloroethane	40.97	0.65	4.2	41.88	0	97.8	75	125	34.54	17	40	
Ethylbenzene	39.32	0.42	4.2	41.88	0	93.9	75	125	31.60	21.8	40	
m,p-Xylene	79.62	1.3	4.2	83.77	0	95.1	80	125	63.90	21.9	40	
o-Xylene	39.01	0.39	4.2	41.88	0	93.2	75	125	34.46	12.4	40	
Xylene (Total)	118.6	0.39	4.2	125.6	0	94.4	83	125	98.36	18.7	40	
Styrene	39.84	0.44	4.2	41.88	0	95.1	75	125	32.71	19.7	40	
Bromoform	43.32	1.7	4.2	41.88	0	103	55	135	37.47	14.5	40	
Isopropylbenzene	38.53	0.49	4.2	41.88	0	92.0	75	130	30.12	24.5	40	
1,1,2,2-Tetrachloroethane	45.21	0.57	4.2	41.88	0	108	55	130	39.22	14.2	40	
Bromobenzene	41.99	0.49	4.2	41.88	0	100	65	120	34.22	20.4	40	
1,2,3-Trichloropropane	44.44	0.73	4.2	41.88	0	106	65	130	39.12	12.7	40	
n-Propylbenzene	37.35	0.37	4.2	41.88	0	89.2	65	135	28.84	25.7	40	
2-Chlorotoluene	41.90	0.62	4.2	41.88	0	100	70	130	32.03	26.7	40	
1,3,5-Trimethylbenzene	39.32	0.51	4.2	41.88	0	93.9	65	135	30.53	25.2	40	
4-Chlorotoluene	38.98	0.70	4.2	41.88	0	93.1	75	125	31.60	20.9	40	
tert-Butylbenzene	40.89	0.44	4.2	41.88	0	97.6	65	130	31.27	26.7	40	
1,2,4-Trimethylbenzene	39.58	0.48	4.2	41.88	0	94.5	65	135	29.80	28.2	40	
sec-Butylbenzene	39.45	0.52	4.2	41.88	0	94.2	65	130	28.86	31	40	
4-Isopropyltoluene	37.56	0.59	4.2	41.88	0	89.7	75	135	27.74	30.1	40	
1,3-Dichlorobenzene	38.02	0.59	4.2	41.88	0	90.8	70	125	28.41	28.9	40	
1,4-Dichlorobenzene	38.47	0.67	4.2	41.88	0	91.8	70	125	29.03	28	40	
n-Butylbenzene	34.65	0.56	4.2	41.88	0	82.7	65	140	24.79	33.2	40	
1,2-Dichlorobenzene	39.60	0.52	4.2	41.88	0	94.6	75	120	30.79	25	40	
1,2-Dibromo-3-chloropropane	44.93	1.1	4.2	41.88	0	107	40	135	38.80	14.6	40	
1,2,4-Trichlorobenzene	26.64	0.53	4.2	41.88	0	63.6	65	130	21.87	19.7	40	S
Hexachlorobutadiene	32.54	0.52	4.2	41.88	0	77.7	55	140	23.91	30.6	40	
1,2,3-Trichlorobenzene	34.61	0.54	4.2	41.88	0	82.6	60	135	24.27	35.1	40	
Naphthalene	36.37	0.65	4.2	41.88	0	86.8	40	125	30.49	17.6	40	
Diethyl ether	38.30	1.1	4.2	41.88	0	91.5	70	130	36.01	6.17	40	
Tetrahydrofuran	76.50	3.9	8.4	83.77	0	91.3	70	130	71.99	6.08	40	
Surrogate: Dibromofluoromethane	38.70		4.2	41.88	0	92.4	76	128	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	41.56		4.2	41.88	0	99.2	88	110	0	0	40	
Surrogate: Toluene-d8	43.86		4.2	41.88	0	105	85	115	0	0	40	
Surrogate: Bromofluorobenzene	40.96		4.2	41.88	0	97.8	85	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709
Project: Barrington, RI site
Lab ID: P1456-01
Collection Date: 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2400	ug/Kg	1	10/07/2015 10:06	83236
Surrogate: Bromofluorobenzene	91.3		79-118	%REC	1	10/07/2015 10:06	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002
Lab ID: P1456-02
Project: Barrington, RI site
Collection Date: 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		3100	ug/Kg	1	10/07/2015 10:27	83236
Surrogate: Bromofluorobenzene	90.6		79-118	%REC	1	10/07/2015 10:27	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709
Lab ID: P1456-03
Project: Barrington, RI site
Collection Date: 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2300	ug/Kg	1	10/07/2015 10:49	83236
Surrogate: Bromofluorobenzene	87.5		79-118	%REC	1	10/07/2015 10:49	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002
Lab ID: P1456-04
Project: Barrington, RI site
Collection Date: 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2100	ug/Kg	1	10/06/2015 16:23	83232
Surrogate: Bromofluorobenzene	81.1		79-118	%REC	1	10/06/2015 16:23	83232

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315
Project: Barrington, RI site
Lab ID: P1456-05
Collection Date: 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		3100	ug/Kg	1	10/07/2015 11:10	83236
Surrogate: Bromofluorobenzene	83.1		79-118	%REC	1	10/07/2015 11:10	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002
Project: Barrington, RI site
Lab ID: P1456-06
Collection Date: 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2800	ug/Kg	1	10/07/2015 11:32	83236
Surrogate: Bromofluorobenzene	110		79-118	%REC	1	10/07/2015 11:32	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709
Project: Barrington, RI site
Lab ID: P1456-07
Collection Date: 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2000	ug/Kg	1	10/07/2015 11:53	83236
Surrogate: Bromofluorobenzene	117		79-118	%REC	1	10/07/2015 11:53	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002
Lab ID: P1456-09
Project: Barrington, RI site
Collection Date: 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2600	ug/Kg	1	10/07/2015 12:15	83236
Surrogate: Bromofluorobenzene	110		79-118	%REC	1	10/07/2015 12:15	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214
Lab ID: P1456-10
Project: Barrington, RI site
Collection Date: 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2000	ug/Kg	1	10/07/2015 12:37	83236
Surrogate: Bromofluorobenzene	101		79-118	%REC	1	10/07/2015 12:37	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002
Lab ID: P1456-11
Project: Barrington, RI site
Collection Date: 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2000	ug/Kg	1	10/07/2015 12:58	83236
Surrogate: Bromofluorobenzene	95.8		79-118	%REC	1	10/07/2015 12:58	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214
Lab ID: P1456-12
Project: Barrington, RI site
Collection Date: 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2800	ug/Kg	1	10/07/2015 13:20	83236
Surrogate: Bromofluorobenzene	108		79-118	%REC	1	10/07/2015 13:20	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002
Lab ID: P1456-13
Project: Barrington, RI site
Collection Date: 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2100	ug/Kg	1	10/07/2015 13:42	83236
Surrogate: Bromofluorobenzene	101		79-118	%REC	1	10/07/2015 13:42	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214
Lab ID: P1456-14
Project: Barrington, RI site
Collection Date: 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2300	ug/Kg	1	10/07/2015 14:04	83236
Surrogate: Bromofluorobenzene	103		79-118	%REC	1	10/07/2015 14:04	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03
Lab ID: P1456-15
Project: Barrington, RI site
Collection Date: 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2200	ug/Kg	1	10/07/2015 14:25	83236
Surrogate: Bromofluorobenzene	108		79-118	%REC	1	10/07/2015 14:25	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002 **Project:** Barrington, RI site
Lab ID: P1456-16 **Collection Date:** 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2100	ug/Kg	1	10/07/2015 14:47	83236
Surrogate: Bromofluorobenzene	108		79-118	%REC	1	10/07/2015 14:47	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416
Lab ID: P1456-17
Project: Barrington, RI site
Collection Date: 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2500	ug/Kg	1	10/07/2015 15:09	83236
Surrogate: Bromofluorobenzene	100		79-118	%REC	1	10/07/2015 15:09	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002
Lab ID: P1456-18
Project: Barrington, RI site
Collection Date: 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2900	ug/Kg	1	10/07/2015 15:30	83236
Surrogate: Bromofluorobenzene	95.5		79-118	%REC	1	10/07/2015 15:30	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

GRO_S

SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID

Sample ID: **MB-83232** SampType: **MBLK** TestCode: **GRO_S** Prep Date: **10/06/15 8:28** Run ID: **V4_151006A**
Client ID: **MB-83232** Batch ID: **83232** Units: **ug/Kg** Analysis Date: **10/06/15 11:40** SeqNo: **2314029**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	450	2500									
Surrogate: Bromofluorobenzene	21.19		250	20.00	0	106	79	118	0			

Sample ID: **MB-83236** SampType: **MBLK** TestCode: **GRO_S** Prep Date: **10/07/15 7:28** Run ID: **V4_151007A**
Client ID: **MB-83236** Batch ID: **83236** Units: **ug/Kg** Analysis Date: **10/07/15 9:24** SeqNo: **2314049**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	450	2500									
Surrogate: Bromofluorobenzene	18.21		250	20.00	0	91.1	79	118	0			

Sample ID: **LCS-83232** SampType: **LCS** TestCode: **GRO_S** Prep Date: **10/06/15 8:28** Run ID: **V4_151006A**
Client ID: **LCS-83232** Batch ID: **83232** Units: **ug/Kg** Analysis Date: **10/06/15 11:12** SeqNo: **2314027**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	23990	450	2500	25000	0	96.0	80	120	0			
Surrogate: Bromofluorobenzene	19.90		250	20.00	0	99.5	79	118	0			

Sample ID: **LCS-83236** SampType: **LCS** TestCode: **GRO_S** Prep Date: **10/07/15 7:28** Run ID: **V4_151007A**
Client ID: **LCS-83236** Batch ID: **83236** Units: **ug/Kg** Analysis Date: **10/07/15 9:03** SeqNo: **2314054**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	21420	450	2500	25000	0	85.7	80	120	0			
Surrogate: Bromofluorobenzene	18.95		250	20.00	0	94.8	79	118	0			

Sample ID: **P1456-04DMS** SampType: **MS** TestCode: **GRO_S** Prep Date: **10/06/15 8:28** Run ID: **V4_151006A**
Client ID: **NOB-103 0002** Batch ID: **83232** Units: **ug/Kg** Analysis Date: **10/06/15 17:28** SeqNo: **2314044**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	15990	350	2000	19710	0	81.1	60	140	0			
Surrogate: Bromofluorobenzene	18.55		200	20.00	0	92.8	79	118	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

GRO_S

SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID

Sample ID: **P1456-04DMSD** SampType: **MSD** TestCode: **GRO_S** Prep Date: **10/06/15 8:28** Run ID: **V4_151006A**
Client ID: **NOB-103 0002** Batch ID: **83232** Units: **ug/Kg** Analysis Date: **10/06/15 17:50** SeqNo: **2314045**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	19200	420	2300	23380	0	82.1	60	140	15990	18.2	20	
Surrogate: Bromofluorobenzene	16.24		230	20.00	0	81.2	79	118	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709 **Project:** Barrington, RI site
Lab ID: P1456-01 **Collection Date:** 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Bis(2-chloroethyl)ether	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2-Chlorophenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
1,3-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
1,4-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
1,2-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2-Methylphenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
N-Nitroso-di-n-propylamine	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Hexachloroethane	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Nitrobenzene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Isophorone	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2-Nitrophenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2,4-Dimethylphenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2,4-Dichlorophenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
1,2,4-Trichlorobenzene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Naphthalene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
4-Chloroaniline	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Bis(2-chloroethoxy)methane	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Hexachlorobutadiene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
4-Chloro-3-methylphenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2-Methylnaphthalene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Hexachlorocyclopentadiene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2,4,6-Trichlorophenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2,4,5-Trichlorophenol	ND		740	ug/Kg	1	10/06/2015 1:27	83162
2-Chloronaphthalene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2-Nitroaniline	ND		740	ug/Kg	1	10/06/2015 1:27	83162
Dimethylphthalate	200	J	360	ug/Kg	1	10/06/2015 1:27	83162
Acenaphthylene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2,6-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
3-Nitroaniline	ND		740	ug/Kg	1	10/06/2015 1:27	83162
Acenaphthene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2,4-Dinitrophenol	ND		740	ug/Kg	1	10/06/2015 1:27	83162
4-Nitrophenol	ND		740	ug/Kg	1	10/06/2015 1:27	83162
Dibenzofuran	ND		360	ug/Kg	1	10/06/2015 1:27	83162
2,4-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Diethylphthalate	ND		360	ug/Kg	1	10/06/2015 1:27	83162
4-Chlorophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 1:27	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709 **Project:** Barrington, RI site
Lab ID: P1456-01 **Collection Date:** 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
4-Nitroaniline	ND		740	ug/Kg	1	10/06/2015 1:27	83162
4,6-Dinitro-2-methylphenol	ND		740	ug/Kg	1	10/06/2015 1:27	83162
N-Nitrosodiphenylamine	ND		360	ug/Kg	1	10/06/2015 1:27	83162
4-Bromophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Hexachlorobenzene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Pentachlorophenol	ND		740	ug/Kg	1	10/06/2015 1:27	83162
Phenanthrene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Anthracene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Carbazole	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Di-n-butylphthalate	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Fluoranthene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Pyrene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Butylbenzylphthalate	ND		360	ug/Kg	1	10/06/2015 1:27	83162
3,3´-Dichlorobenzidine	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Benzo(a)anthracene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Chrysene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Bis(2-ethylhexyl)phthalate	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Di-n-octylphthalate	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Benzo(b)fluoranthene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Benzo(k)fluoranthene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Benzo(a)pyrene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Indeno(1,2,3-cd)pyrene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Dibenzo(a,h)anthracene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Benzo(g,h,i)perylene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
1,1´-Biphenyl	ND		360	ug/Kg	1	10/06/2015 1:27	83162
3-Methylphenol + 4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Acetophenone	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Aniline	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Azobenzene	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Benzidine	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Benzoic acid	ND		740	ug/Kg	1	10/06/2015 1:27	83162
Benzyl alcohol	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Bis(2-chloroisopropyl)ether	ND		360	ug/Kg	1	10/06/2015 1:27	83162
N-Nitrosodimethylamine	ND		360	ug/Kg	1	10/06/2015 1:27	83162
Surrogate: Nitrobenzene-d5	80.7		35-100	%REC	1	10/06/2015 1:27	83162
Surrogate: 2-Fluorobiphenyl	78.2		45-105	%REC	1	10/06/2015 1:27	83162
Surrogate: Terphenyl-d14	95.5		30-125	%REC	1	10/06/2015 1:27	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709
Lab ID: P1456-01
Project: Barrington, RI site
Collection Date: 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	89.5		40-100	%REC	1	10/06/2015 1:27	83162
Surrogate: 2-Fluorophenol	90.4		35-105	%REC	1	10/06/2015 1:27	83162
Surrogate: 2,4,6-Tribromophenol	70.1		35-125	%REC	1	10/06/2015 1:27	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002 **Project:** Barrington, RI site
Lab ID: P1456-02 **Collection Date:** 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Bis(2-chloroethyl)ether	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2-Chlorophenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
1,3-Dichlorobenzene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
1,4-Dichlorobenzene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
1,2-Dichlorobenzene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2-Methylphenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
4-Methylphenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
N-Nitroso-di-n-propylamine	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Hexachloroethane	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Nitrobenzene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Isophorone	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2-Nitrophenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2,4-Dimethylphenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2,4-Dichlorophenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
1,2,4-Trichlorobenzene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Naphthalene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
4-Chloroaniline	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Bis(2-chloroethoxy)methane	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Hexachlorobutadiene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
4-Chloro-3-methylphenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2-Methylnaphthalene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Hexachlorocyclopentadiene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2,4,6-Trichlorophenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2,4,5-Trichlorophenol	ND		900	ug/Kg	1	10/06/2015 1:53	83162
2-Chloronaphthalene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2-Nitroaniline	ND		900	ug/Kg	1	10/06/2015 1:53	83162
Dimethylphthalate	160	J	440	ug/Kg	1	10/06/2015 1:53	83162
Acenaphthylene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2,6-Dinitrotoluene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
3-Nitroaniline	ND		900	ug/Kg	1	10/06/2015 1:53	83162
Acenaphthene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2,4-Dinitrophenol	ND		900	ug/Kg	1	10/06/2015 1:53	83162
4-Nitrophenol	ND		900	ug/Kg	1	10/06/2015 1:53	83162
Dibenzofuran	ND		440	ug/Kg	1	10/06/2015 1:53	83162
2,4-Dinitrotoluene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Diethylphthalate	ND		440	ug/Kg	1	10/06/2015 1:53	83162
4-Chlorophenyl-phenylether	ND		440	ug/Kg	1	10/06/2015 1:53	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002 **Project:** Barrington, RI site
Lab ID: P1456-02 **Collection Date:** 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
4-Nitroaniline	ND		900	ug/Kg	1	10/06/2015 1:53	83162
4,6-Dinitro-2-methylphenol	ND		900	ug/Kg	1	10/06/2015 1:53	83162
N-Nitrosodiphenylamine	ND		440	ug/Kg	1	10/06/2015 1:53	83162
4-Bromophenyl-phenylether	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Hexachlorobenzene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Pentachlorophenol	ND		900	ug/Kg	1	10/06/2015 1:53	83162
Phenanthrene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Anthracene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Carbazole	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Di-n-butylphthalate	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Fluoranthene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Pyrene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Butylbenzylphthalate	ND		440	ug/Kg	1	10/06/2015 1:53	83162
3,3´-Dichlorobenzidine	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Benzo(a)anthracene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Chrysene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Bis(2-ethylhexyl)phthalate	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Di-n-octylphthalate	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Benzo(b)fluoranthene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Benzo(k)fluoranthene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Benzo(a)pyrene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Indeno(1,2,3-cd)pyrene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Dibenzo(a,h)anthracene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Benzo(g,h,i)perylene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
1,1´-Biphenyl	ND		440	ug/Kg	1	10/06/2015 1:53	83162
3-Methylphenol + 4-Methylphenol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Acetophenone	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Aniline	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Azobenzene	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Benzidine	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Benzoic acid	ND		900	ug/Kg	1	10/06/2015 1:53	83162
Benzyl alcohol	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Bis(2-chloroisopropyl)ether	ND		440	ug/Kg	1	10/06/2015 1:53	83162
N-Nitrosodimethylamine	ND		440	ug/Kg	1	10/06/2015 1:53	83162
Surrogate: Nitrobenzene-d5	75.6		35-100	%REC	1	10/06/2015 1:53	83162
Surrogate: 2-Fluorobiphenyl	73.5		45-105	%REC	1	10/06/2015 1:53	83162
Surrogate: Terphenyl-d14	92.4		30-125	%REC	1	10/06/2015 1:53	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002 **Project:** Barrington, RI site
Lab ID: P1456-02 **Collection Date:** 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	78.8		40-100	%REC	1	10/06/2015 1:53	83162
Surrogate: 2-Fluorophenol	78.9		35-105	%REC	1	10/06/2015 1:53	83162
Surrogate: 2,4,6-Tribromophenol	60.8		35-125	%REC	1	10/06/2015 1:53	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709 **Project:** Barrington, RI site
Lab ID: P1456-03 **Collection Date:** 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Bis(2-chloroethyl)ether	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2-Chlorophenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
1,3-Dichlorobenzene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
1,4-Dichlorobenzene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
1,2-Dichlorobenzene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2-Methylphenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
4-Methylphenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
N-Nitroso-di-n-propylamine	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Hexachloroethane	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Nitrobenzene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Isophorone	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2-Nitrophenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2,4-Dimethylphenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2,4-Dichlorophenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
1,2,4-Trichlorobenzene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Naphthalene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
4-Chloroaniline	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Bis(2-chloroethoxy)methane	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Hexachlorobutadiene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
4-Chloro-3-methylphenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2-Methylnaphthalene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Hexachlorocyclopentadiene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2,4,6-Trichlorophenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2,4,5-Trichlorophenol	ND		670	ug/Kg	1	10/06/2015 2:19	83162
2-Chloronaphthalene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2-Nitroaniline	ND		670	ug/Kg	1	10/06/2015 2:19	83162
Dimethylphthalate	140	J	330	ug/Kg	1	10/06/2015 2:19	83162
Acenaphthylene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2,6-Dinitrotoluene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
3-Nitroaniline	ND		670	ug/Kg	1	10/06/2015 2:19	83162
Acenaphthene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2,4-Dinitrophenol	ND		670	ug/Kg	1	10/06/2015 2:19	83162
4-Nitrophenol	ND		670	ug/Kg	1	10/06/2015 2:19	83162
Dibenzofuran	ND		330	ug/Kg	1	10/06/2015 2:19	83162
2,4-Dinitrotoluene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Diethylphthalate	ND		330	ug/Kg	1	10/06/2015 2:19	83162
4-Chlorophenyl-phenylether	ND		330	ug/Kg	1	10/06/2015 2:19	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709 **Project:** Barrington, RI site
Lab ID: P1456-03 **Collection Date:** 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
4-Nitroaniline	ND		670	ug/Kg	1	10/06/2015 2:19	83162
4,6-Dinitro-2-methylphenol	ND		670	ug/Kg	1	10/06/2015 2:19	83162
N-Nitrosodiphenylamine	ND		330	ug/Kg	1	10/06/2015 2:19	83162
4-Bromophenyl-phenylether	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Hexachlorobenzene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Pentachlorophenol	ND		670	ug/Kg	1	10/06/2015 2:19	83162
Phenanthrene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Anthracene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Carbazole	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Di-n-butylphthalate	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Fluoranthene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Pyrene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Butylbenzylphthalate	ND		330	ug/Kg	1	10/06/2015 2:19	83162
3,3´-Dichlorobenzidine	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Benzo(a)anthracene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Chrysene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Bis(2-ethylhexyl)phthalate	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Di-n-octylphthalate	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Benzo(b)fluoranthene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Benzo(k)fluoranthene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Benzo(a)pyrene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Indeno(1,2,3-cd)pyrene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Dibenzo(a,h)anthracene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Benzo(g,h,i)perylene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
1,1´-Biphenyl	ND		330	ug/Kg	1	10/06/2015 2:19	83162
3-Methylphenol + 4-Methylphenol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Acetophenone	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Aniline	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Azobenzene	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Benzidine	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Benzoic acid	ND		670	ug/Kg	1	10/06/2015 2:19	83162
Benzyl alcohol	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Bis(2-chloroisopropyl)ether	ND		330	ug/Kg	1	10/06/2015 2:19	83162
N-Nitrosodimethylamine	ND		330	ug/Kg	1	10/06/2015 2:19	83162
Surrogate: Nitrobenzene-d5	75.0		35-100	%REC	1	10/06/2015 2:19	83162
Surrogate: 2-Fluorobiphenyl	73.5		45-105	%REC	1	10/06/2015 2:19	83162
Surrogate: Terphenyl-d14	92.0		30-125	%REC	1	10/06/2015 2:19	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709
Lab ID: P1456-03
Project: Barrington, RI site
Collection Date: 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	77.8		40-100	%REC	1	10/06/2015 2:19	83162
Surrogate: 2-Fluorophenol	78.3		35-105	%REC	1	10/06/2015 2:19	83162
Surrogate: 2,4,6-Tribromophenol	59.3		35-125	%REC	1	10/06/2015 2:19	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002 **Project:** Barrington, RI site
Lab ID: P1456-04 **Collection Date:** 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Bis(2-chloroethyl)ether	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2-Chlorophenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
1,3-Dichlorobenzene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
1,4-Dichlorobenzene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
1,2-Dichlorobenzene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2-Methylphenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
4-Methylphenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
N-Nitroso-di-n-propylamine	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Hexachloroethane	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Nitrobenzene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Isophorone	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2-Nitrophenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2,4-Dimethylphenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2,4-Dichlorophenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
1,2,4-Trichlorobenzene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Naphthalene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
4-Chloroaniline	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Bis(2-chloroethoxy)methane	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Hexachlorobutadiene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
4-Chloro-3-methylphenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2-Methylnaphthalene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Hexachlorocyclopentadiene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2,4,6-Trichlorophenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2,4,5-Trichlorophenol	ND		680	ug/Kg	1	10/06/2015 2:45	83162
2-Chloronaphthalene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2-Nitroaniline	ND		680	ug/Kg	1	10/06/2015 2:45	83162
Dimethylphthalate	130	J	340	ug/Kg	1	10/06/2015 2:45	83162
Acenaphthylene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2,6-Dinitrotoluene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
3-Nitroaniline	ND		680	ug/Kg	1	10/06/2015 2:45	83162
Acenaphthene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2,4-Dinitrophenol	ND		680	ug/Kg	1	10/06/2015 2:45	83162
4-Nitrophenol	ND		680	ug/Kg	1	10/06/2015 2:45	83162
Dibenzofuran	ND		340	ug/Kg	1	10/06/2015 2:45	83162
2,4-Dinitrotoluene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Diethylphthalate	ND		340	ug/Kg	1	10/06/2015 2:45	83162
4-Chlorophenyl-phenylether	ND		340	ug/Kg	1	10/06/2015 2:45	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002 **Project:** Barrington, RI site
Lab ID: P1456-04 **Collection Date:** 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
4-Nitroaniline	ND		680	ug/Kg	1	10/06/2015 2:45	83162
4,6-Dinitro-2-methylphenol	ND		680	ug/Kg	1	10/06/2015 2:45	83162
N-Nitrosodiphenylamine	ND		340	ug/Kg	1	10/06/2015 2:45	83162
4-Bromophenyl-phenylether	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Hexachlorobenzene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Pentachlorophenol	ND		680	ug/Kg	1	10/06/2015 2:45	83162
Phenanthrene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Anthracene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Carbazole	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Di-n-butylphthalate	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Fluoranthene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Pyrene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Butylbenzylphthalate	ND		340	ug/Kg	1	10/06/2015 2:45	83162
3,3´-Dichlorobenzidine	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Benzo(a)anthracene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Chrysene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Bis(2-ethylhexyl)phthalate	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Di-n-octylphthalate	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Benzo(b)fluoranthene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Benzo(k)fluoranthene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Benzo(a)pyrene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Indeno(1,2,3-cd)pyrene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Dibenzo(a,h)anthracene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Benzo(g,h,i)perylene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
1,1´-Biphenyl	ND		340	ug/Kg	1	10/06/2015 2:45	83162
3-Methylphenol + 4-Methylphenol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Acetophenone	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Aniline	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Azobenzene	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Benzidine	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Benzoic acid	ND		680	ug/Kg	1	10/06/2015 2:45	83162
Benzyl alcohol	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Bis(2-chloroisopropyl)ether	ND		340	ug/Kg	1	10/06/2015 2:45	83162
N-Nitrosodimethylamine	ND		340	ug/Kg	1	10/06/2015 2:45	83162
Surrogate: Nitrobenzene-d5	75.4		35-100	%REC	1	10/06/2015 2:45	83162
Surrogate: 2-Fluorobiphenyl	74.5		45-105	%REC	1	10/06/2015 2:45	83162
Surrogate: Terphenyl-d14	91.2		30-125	%REC	1	10/06/2015 2:45	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002
Lab ID: P1456-04
Project: Barrington, RI site
Collection Date: 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	76.5		40-100	%REC	1	10/06/2015 2:45	83162
Surrogate: 2-Fluorophenol	77.5		35-105	%REC	1	10/06/2015 2:45	83162
Surrogate: 2,4,6-Tribromophenol	59.6		35-125	%REC	1	10/06/2015 2:45	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315 **Project:** Barrington, RI site
Lab ID: P1456-05 **Collection Date:** 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Bis(2-chloroethyl)ether	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2-Chlorophenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
1,3-Dichlorobenzene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
1,4-Dichlorobenzene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
1,2-Dichlorobenzene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2-Methylphenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
4-Methylphenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
N-Nitroso-di-n-propylamine	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Hexachloroethane	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Nitrobenzene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Isophorone	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2-Nitrophenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2,4-Dimethylphenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2,4-Dichlorophenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
1,2,4-Trichlorobenzene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Naphthalene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
4-Chloroaniline	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Bis(2-chloroethoxy)methane	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Hexachlorobutadiene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
4-Chloro-3-methylphenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2-Methylnaphthalene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Hexachlorocyclopentadiene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2,4,6-Trichlorophenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2,4,5-Trichlorophenol	ND		850	ug/Kg	1	10/06/2015 4:03	83162
2-Chloronaphthalene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2-Nitroaniline	ND		850	ug/Kg	1	10/06/2015 4:03	83162
Dimethylphthalate	100	J	420	ug/Kg	1	10/06/2015 4:03	83162
Acenaphthylene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2,6-Dinitrotoluene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
3-Nitroaniline	ND		850	ug/Kg	1	10/06/2015 4:03	83162
Acenaphthene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2,4-Dinitrophenol	ND		850	ug/Kg	1	10/06/2015 4:03	83162
4-Nitrophenol	ND		850	ug/Kg	1	10/06/2015 4:03	83162
Dibenzofuran	ND		420	ug/Kg	1	10/06/2015 4:03	83162
2,4-Dinitrotoluene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Diethylphthalate	ND		420	ug/Kg	1	10/06/2015 4:03	83162
4-Chlorophenyl-phenylether	ND		420	ug/Kg	1	10/06/2015 4:03	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315 **Project:** Barrington, RI site
Lab ID: P1456-05 **Collection Date:** 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
4-Nitroaniline	ND		850	ug/Kg	1	10/06/2015 4:03	83162
4,6-Dinitro-2-methylphenol	ND		850	ug/Kg	1	10/06/2015 4:03	83162
N-Nitrosodiphenylamine	ND		420	ug/Kg	1	10/06/2015 4:03	83162
4-Bromophenyl-phenylether	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Hexachlorobenzene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Pentachlorophenol	ND		850	ug/Kg	1	10/06/2015 4:03	83162
Phenanthrene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Anthracene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Carbazole	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Di-n-butylphthalate	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Fluoranthene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Pyrene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Butylbenzylphthalate	ND		420	ug/Kg	1	10/06/2015 4:03	83162
3,3´-Dichlorobenzidine	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Benzo(a)anthracene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Chrysene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Bis(2-ethylhexyl)phthalate	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Di-n-octylphthalate	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Benzo(b)fluoranthene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Benzo(k)fluoranthene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Benzo(a)pyrene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Indeno(1,2,3-cd)pyrene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Dibenzo(a,h)anthracene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Benzo(g,h,i)perylene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
1,1´-Biphenyl	ND		420	ug/Kg	1	10/06/2015 4:03	83162
3-Methylphenol + 4-Methylphenol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Acetophenone	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Aniline	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Azobenzene	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Benzidine	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Benzoic acid	ND		850	ug/Kg	1	10/06/2015 4:03	83162
Benzyl alcohol	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Bis(2-chloroisopropyl)ether	ND		420	ug/Kg	1	10/06/2015 4:03	83162
N-Nitrosodimethylamine	ND		420	ug/Kg	1	10/06/2015 4:03	83162
Surrogate: Nitrobenzene-d5	79.1		35-100	%REC	1	10/06/2015 4:03	83162
Surrogate: 2-Fluorobiphenyl	77.0		45-105	%REC	1	10/06/2015 4:03	83162
Surrogate: Terphenyl-d14	104		30-125	%REC	1	10/06/2015 4:03	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315
Lab ID: P1456-05
Project: Barrington, RI site
Collection Date: 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	80.8		40-100	%REC	1	10/06/2015 4:03	83162
Surrogate: 2-Fluorophenol	80.5		35-105	%REC	1	10/06/2015 4:03	83162
Surrogate: 2,4,6-Tribromophenol	60.9		35-125	%REC	1	10/06/2015 4:03	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002 **Project:** Barrington, RI site
Lab ID: P1456-06 **Collection Date:** 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Bis(2-chloroethyl)ether	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2-Chlorophenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
1,3-Dichlorobenzene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
1,4-Dichlorobenzene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
1,2-Dichlorobenzene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2-Methylphenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
4-Methylphenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
N-Nitroso-di-n-propylamine	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Hexachloroethane	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Nitrobenzene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Isophorone	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2-Nitrophenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2,4-Dimethylphenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2,4-Dichlorophenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
1,2,4-Trichlorobenzene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Naphthalene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
4-Chloroaniline	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Bis(2-chloroethoxy)methane	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Hexachlorobutadiene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
4-Chloro-3-methylphenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2-Methylnaphthalene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Hexachlorocyclopentadiene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2,4,6-Trichlorophenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2,4,5-Trichlorophenol	ND		820	ug/Kg	1	10/06/2015 4:29	83162
2-Chloronaphthalene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2-Nitroaniline	ND		820	ug/Kg	1	10/06/2015 4:29	83162
Dimethylphthalate	140	J	400	ug/Kg	1	10/06/2015 4:29	83162
Acenaphthylene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2,6-Dinitrotoluene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
3-Nitroaniline	ND		820	ug/Kg	1	10/06/2015 4:29	83162
Acenaphthene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2,4-Dinitrophenol	ND		820	ug/Kg	1	10/06/2015 4:29	83162
4-Nitrophenol	ND		820	ug/Kg	1	10/06/2015 4:29	83162
Dibenzofuran	ND		400	ug/Kg	1	10/06/2015 4:29	83162
2,4-Dinitrotoluene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Diethylphthalate	ND		400	ug/Kg	1	10/06/2015 4:29	83162
4-Chlorophenyl-phenylether	ND		400	ug/Kg	1	10/06/2015 4:29	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002 **Project:** Barrington, RI site
Lab ID: P1456-06 **Collection Date:** 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
4-Nitroaniline	ND		820	ug/Kg	1	10/06/2015 4:29	83162
4,6-Dinitro-2-methylphenol	ND		820	ug/Kg	1	10/06/2015 4:29	83162
N-Nitrosodiphenylamine	ND		400	ug/Kg	1	10/06/2015 4:29	83162
4-Bromophenyl-phenylether	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Hexachlorobenzene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Pentachlorophenol	ND		820	ug/Kg	1	10/06/2015 4:29	83162
Phenanthrene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Anthracene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Carbazole	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Di-n-butylphthalate	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Fluoranthene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Pyrene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Butylbenzylphthalate	ND		400	ug/Kg	1	10/06/2015 4:29	83162
3,3´-Dichlorobenzidine	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Benzo(a)anthracene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Chrysene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Bis(2-ethylhexyl)phthalate	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Di-n-octylphthalate	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Benzo(b)fluoranthene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Benzo(k)fluoranthene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Benzo(a)pyrene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Indeno(1,2,3-cd)pyrene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Dibenzo(a,h)anthracene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Benzo(g,h,i)perylene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
1,1´-Biphenyl	ND		400	ug/Kg	1	10/06/2015 4:29	83162
3-Methylphenol + 4-Methylphenol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Acetophenone	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Aniline	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Azobenzene	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Benzidine	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Benzoic acid	ND		820	ug/Kg	1	10/06/2015 4:29	83162
Benzyl alcohol	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Bis(2-chloroisopropyl)ether	ND		400	ug/Kg	1	10/06/2015 4:29	83162
N-Nitrosodimethylamine	ND		400	ug/Kg	1	10/06/2015 4:29	83162
Surrogate: Nitrobenzene-d5	82.2		35-100	%REC	1	10/06/2015 4:29	83162
Surrogate: 2-Fluorobiphenyl	81.9		45-105	%REC	1	10/06/2015 4:29	83162
Surrogate: Terphenyl-d14	106		30-125	%REC	1	10/06/2015 4:29	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002
Lab ID: P1456-06
Project: Barrington, RI site
Collection Date: 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	82.7		40-100	%REC	1	10/06/2015 4:29	83162
Surrogate: 2-Fluorophenol	85.7		35-105	%REC	1	10/06/2015 4:29	83162
Surrogate: 2,4,6-Tribromophenol	61.3		35-125	%REC	1	10/06/2015 4:29	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709 **Project:** Barrington, RI site
Lab ID: P1456-07 **Collection Date:** 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Bis(2-chloroethyl)ether	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2-Chlorophenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
1,3-Dichlorobenzene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
1,4-Dichlorobenzene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
1,2-Dichlorobenzene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2-Methylphenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
4-Methylphenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
N-Nitroso-di-n-propylamine	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Hexachloroethane	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Nitrobenzene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Isophorone	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2-Nitrophenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2,4-Dimethylphenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2,4-Dichlorophenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Naphthalene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
4-Chloroaniline	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Bis(2-chloroethoxy)methane	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Hexachlorobutadiene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2-Methylnaphthalene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Hexachlorocyclopentadiene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2,4,5-Trichlorophenol	ND		710	ug/Kg	1	10/06/2015 4:55	83162
2-Chloronaphthalene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2-Nitroaniline	ND		710	ug/Kg	1	10/06/2015 4:55	83162
Dimethylphthalate	110	J	350	ug/Kg	1	10/06/2015 4:55	83162
Acenaphthylene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2,6-Dinitrotoluene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
3-Nitroaniline	ND		710	ug/Kg	1	10/06/2015 4:55	83162
Acenaphthene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2,4-Dinitrophenol	ND		710	ug/Kg	1	10/06/2015 4:55	83162
4-Nitrophenol	ND		710	ug/Kg	1	10/06/2015 4:55	83162
Dibenzofuran	ND		350	ug/Kg	1	10/06/2015 4:55	83162
2,4-Dinitrotoluene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Diethylphthalate	ND		350	ug/Kg	1	10/06/2015 4:55	83162
4-Chlorophenyl-phenylether	ND		350	ug/Kg	1	10/06/2015 4:55	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709 **Project:** Barrington, RI site
Lab ID: P1456-07 **Collection Date:** 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
4-Nitroaniline	ND		710	ug/Kg	1	10/06/2015 4:55	83162
4,6-Dinitro-2-methylphenol	ND		710	ug/Kg	1	10/06/2015 4:55	83162
N-Nitrosodiphenylamine	ND		350	ug/Kg	1	10/06/2015 4:55	83162
4-Bromophenyl-phenylether	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Hexachlorobenzene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Pentachlorophenol	ND		710	ug/Kg	1	10/06/2015 4:55	83162
Phenanthrene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Anthracene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Carbazole	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Di-n-butylphthalate	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Fluoranthene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Pyrene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Butylbenzylphthalate	ND		350	ug/Kg	1	10/06/2015 4:55	83162
3,3´-Dichlorobenzidine	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Benzo(a)anthracene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Chrysene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Bis(2-ethylhexyl)phthalate	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Di-n-octylphthalate	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Benzo(b)fluoranthene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Benzo(k)fluoranthene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Benzo(a)pyrene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Dibenzo(a,h)anthracene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
1,1´-Biphenyl	ND		350	ug/Kg	1	10/06/2015 4:55	83162
3-Methylphenol + 4-Methylphenol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Acetophenone	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Aniline	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Azobenzene	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Benzidine	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Benzoic acid	ND		710	ug/Kg	1	10/06/2015 4:55	83162
Benzyl alcohol	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Bis(2-chloroisopropyl)ether	ND		350	ug/Kg	1	10/06/2015 4:55	83162
N-Nitrosodimethylamine	ND		350	ug/Kg	1	10/06/2015 4:55	83162
Surrogate: Nitrobenzene-d5	83.1		35-100	%REC	1	10/06/2015 4:55	83162
Surrogate: 2-Fluorobiphenyl	81.1		45-105	%REC	1	10/06/2015 4:55	83162
Surrogate: Terphenyl-d14	103		30-125	%REC	1	10/06/2015 4:55	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709
Project: Barrington, RI site
Lab ID: P1456-07
Collection Date: 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	90.6		40-100	%REC	1	10/06/2015 4:55	83162
Surrogate: 2-Fluorophenol	89.0		35-105	%REC	1	10/06/2015 4:55	83162
Surrogate: 2,4,6-Tribromophenol	64.9		35-125	%REC	1	10/06/2015 4:55	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002 **Project:** Barrington, RI site
Lab ID: P1456-09 **Collection Date:** 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2-Chlorophenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2-Methylphenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
4-Methylphenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Hexachloroethane	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Nitrobenzene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Isophorone	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2-Nitrophenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Naphthalene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
4-Chloroaniline	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Hexachlorobutadiene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2-Methylnaphthalene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2,4,5-Trichlorophenol	ND		760	ug/Kg	1	10/06/2015 5:21	83162
2-Chloronaphthalene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2-Nitroaniline	ND		760	ug/Kg	1	10/06/2015 5:21	83162
Dimethylphthalate	130	J	370	ug/Kg	1	10/06/2015 5:21	83162
Acenaphthylene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
3-Nitroaniline	ND		760	ug/Kg	1	10/06/2015 5:21	83162
Acenaphthene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2,4-Dinitrophenol	ND		760	ug/Kg	1	10/06/2015 5:21	83162
4-Nitrophenol	ND		760	ug/Kg	1	10/06/2015 5:21	83162
Dibenzofuran	ND		370	ug/Kg	1	10/06/2015 5:21	83162
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Diethylphthalate	ND		370	ug/Kg	1	10/06/2015 5:21	83162
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/06/2015 5:21	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002 **Project:** Barrington, RI site
Lab ID: P1456-09 **Collection Date:** 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
4-Nitroaniline	ND		760	ug/Kg	1	10/06/2015 5:21	83162
4,6-Dinitro-2-methylphenol	ND		760	ug/Kg	1	10/06/2015 5:21	83162
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/06/2015 5:21	83162
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Hexachlorobenzene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Pentachlorophenol	ND		760	ug/Kg	1	10/06/2015 5:21	83162
Phenanthrene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Anthracene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Carbazole	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Di-n-butylphthalate	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Fluoranthene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Pyrene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Butylbenzylphthalate	ND		370	ug/Kg	1	10/06/2015 5:21	83162
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Benzo(a)anthracene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Chrysene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Di-n-octylphthalate	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Benzo(a)pyrene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
1,1´-Biphenyl	ND		370	ug/Kg	1	10/06/2015 5:21	83162
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Acetophenone	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Aniline	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Azobenzene	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Benzidine	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Benzoic acid	ND		760	ug/Kg	1	10/06/2015 5:21	83162
Benzyl alcohol	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/06/2015 5:21	83162
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/06/2015 5:21	83162
Surrogate: Nitrobenzene-d5	80.4		35-100	%REC	1	10/06/2015 5:21	83162
Surrogate: 2-Fluorobiphenyl	76.9		45-105	%REC	1	10/06/2015 5:21	83162
Surrogate: Terphenyl-d14	103		30-125	%REC	1	10/06/2015 5:21	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002
Lab ID: P1456-09
Project: Barrington, RI site
Collection Date: 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	81.0		40-100	%REC	1	10/06/2015 5:21	83162
Surrogate: 2-Fluorophenol	81.1		35-105	%REC	1	10/06/2015 5:21	83162
Surrogate: 2,4,6-Tribromophenol	59.9		35-125	%REC	1	10/06/2015 5:21	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214 **Project:** Barrington, RI site
Lab ID: P1456-10 **Collection Date:** 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Bis(2-chloroethyl)ether	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2-Chlorophenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
1,3-Dichlorobenzene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
1,4-Dichlorobenzene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
1,2-Dichlorobenzene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2-Methylphenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
4-Methylphenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
N-Nitroso-di-n-propylamine	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Hexachloroethane	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Nitrobenzene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Isophorone	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2-Nitrophenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2,4-Dimethylphenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2,4-Dichlorophenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
1,2,4-Trichlorobenzene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Naphthalene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
4-Chloroaniline	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Bis(2-chloroethoxy)methane	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Hexachlorobutadiene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
4-Chloro-3-methylphenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2-Methylnaphthalene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Hexachlorocyclopentadiene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2,4,6-Trichlorophenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2,4,5-Trichlorophenol	ND		700	ug/Kg	1	10/06/2015 5:47	83162
2-Chloronaphthalene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2-Nitroaniline	ND		700	ug/Kg	1	10/06/2015 5:47	83162
Dimethylphthalate	140	J	340	ug/Kg	1	10/06/2015 5:47	83162
Acenaphthylene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2,6-Dinitrotoluene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
3-Nitroaniline	ND		700	ug/Kg	1	10/06/2015 5:47	83162
Acenaphthene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2,4-Dinitrophenol	ND		700	ug/Kg	1	10/06/2015 5:47	83162
4-Nitrophenol	ND		700	ug/Kg	1	10/06/2015 5:47	83162
Dibenzofuran	ND		340	ug/Kg	1	10/06/2015 5:47	83162
2,4-Dinitrotoluene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Diethylphthalate	ND		340	ug/Kg	1	10/06/2015 5:47	83162
4-Chlorophenyl-phenylether	ND		340	ug/Kg	1	10/06/2015 5:47	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214 **Project:** Barrington, RI site
Lab ID: P1456-10 **Collection Date:** 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
4-Nitroaniline	ND		700	ug/Kg	1	10/06/2015 5:47	83162
4,6-Dinitro-2-methylphenol	ND		700	ug/Kg	1	10/06/2015 5:47	83162
N-Nitrosodiphenylamine	ND		340	ug/Kg	1	10/06/2015 5:47	83162
4-Bromophenyl-phenylether	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Hexachlorobenzene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Pentachlorophenol	ND		700	ug/Kg	1	10/06/2015 5:47	83162
Phenanthrene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Anthracene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Carbazole	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Di-n-butylphthalate	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Fluoranthene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Pyrene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Butylbenzylphthalate	ND		340	ug/Kg	1	10/06/2015 5:47	83162
3,3´-Dichlorobenzidine	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Benzo(a)anthracene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Chrysene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Bis(2-ethylhexyl)phthalate	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Di-n-octylphthalate	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Benzo(b)fluoranthene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Benzo(k)fluoranthene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Benzo(a)pyrene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Indeno(1,2,3-cd)pyrene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Dibenzo(a,h)anthracene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Benzo(g,h,i)perylene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
1,1´-Biphenyl	ND		340	ug/Kg	1	10/06/2015 5:47	83162
3-Methylphenol + 4-Methylphenol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Acetophenone	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Aniline	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Azobenzene	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Benzidine	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Benzoic acid	ND		700	ug/Kg	1	10/06/2015 5:47	83162
Benzyl alcohol	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Bis(2-chloroisopropyl)ether	ND		340	ug/Kg	1	10/06/2015 5:47	83162
N-Nitrosodimethylamine	ND		340	ug/Kg	1	10/06/2015 5:47	83162
Surrogate: Nitrobenzene-d5	77.9		35-100	%REC	1	10/06/2015 5:47	83162
Surrogate: 2-Fluorobiphenyl	74.2		45-105	%REC	1	10/06/2015 5:47	83162
Surrogate: Terphenyl-d14	90.4		30-125	%REC	1	10/06/2015 5:47	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214
Lab ID: P1456-10
Project: Barrington, RI site
Collection Date: 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	80.9		40-100	%REC	1	10/06/2015 5:47	83162
Surrogate: 2-Fluorophenol	82.2		35-105	%REC	1	10/06/2015 5:47	83162
Surrogate: 2,4,6-Tribromophenol	61.5		35-125	%REC	1	10/06/2015 5:47	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002 **Project:** Barrington, RI site
Lab ID: P1456-11 **Collection Date:** 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2-Chlorophenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2-Methylphenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
4-Methylphenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Hexachloroethane	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Nitrobenzene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Isophorone	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2-Nitrophenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Naphthalene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
4-Chloroaniline	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Hexachlorobutadiene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2-Methylnaphthalene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2,4,5-Trichlorophenol	ND		750	ug/Kg	1	10/06/2015 6:13	83162
2-Chloronaphthalene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2-Nitroaniline	ND		750	ug/Kg	1	10/06/2015 6:13	83162
Dimethylphthalate	190	J	370	ug/Kg	1	10/06/2015 6:13	83162
Acenaphthylene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
3-Nitroaniline	ND		750	ug/Kg	1	10/06/2015 6:13	83162
Acenaphthene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2,4-Dinitrophenol	ND		750	ug/Kg	1	10/06/2015 6:13	83162
4-Nitrophenol	ND		750	ug/Kg	1	10/06/2015 6:13	83162
Dibenzofuran	ND		370	ug/Kg	1	10/06/2015 6:13	83162
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Diethylphthalate	ND		370	ug/Kg	1	10/06/2015 6:13	83162
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/06/2015 6:13	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002 **Project:** Barrington, RI site
Lab ID: P1456-11 **Collection Date:** 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
4-Nitroaniline	ND		750	ug/Kg	1	10/06/2015 6:13	83162
4,6-Dinitro-2-methylphenol	ND		750	ug/Kg	1	10/06/2015 6:13	83162
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/06/2015 6:13	83162
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Hexachlorobenzene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Pentachlorophenol	ND		750	ug/Kg	1	10/06/2015 6:13	83162
Phenanthrene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Anthracene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Carbazole	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Di-n-butylphthalate	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Fluoranthene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Pyrene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Butylbenzylphthalate	ND		370	ug/Kg	1	10/06/2015 6:13	83162
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Benzo(a)anthracene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Chrysene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Di-n-octylphthalate	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Benzo(a)pyrene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
1,1´-Biphenyl	ND		370	ug/Kg	1	10/06/2015 6:13	83162
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Acetophenone	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Aniline	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Azobenzene	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Benzidine	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Benzoic acid	ND		750	ug/Kg	1	10/06/2015 6:13	83162
Benzyl alcohol	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/06/2015 6:13	83162
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/06/2015 6:13	83162
Surrogate: Nitrobenzene-d5	51.5		35-100	%REC	1	10/06/2015 6:13	83162
Surrogate: 2-Fluorobiphenyl	56.2		45-105	%REC	1	10/06/2015 6:13	83162
Surrogate: Terphenyl-d14	85.3		30-125	%REC	1	10/06/2015 6:13	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002
Lab ID: P1456-11
Project: Barrington, RI site
Collection Date: 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	64.7		40-100	%REC	1	10/06/2015 6:13	83162
Surrogate: 2-Fluorophenol	58.1		35-105	%REC	1	10/06/2015 6:13	83162
Surrogate: 2,4,6-Tribromophenol	57.7		35-125	%REC	1	10/06/2015 6:13	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214 **Project:** Barrington, RI site
Lab ID: P1456-12 **Collection Date:** 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Bis(2-chloroethyl)ether	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2-Chlorophenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
1,3-Dichlorobenzene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
1,4-Dichlorobenzene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
1,2-Dichlorobenzene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2-Methylphenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
4-Methylphenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
N-Nitroso-di-n-propylamine	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Hexachloroethane	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Nitrobenzene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Isophorone	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2-Nitrophenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2,4-Dimethylphenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2,4-Dichlorophenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
1,2,4-Trichlorobenzene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Naphthalene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
4-Chloroaniline	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Bis(2-chloroethoxy)methane	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Hexachlorobutadiene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
4-Chloro-3-methylphenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2-Methylnaphthalene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Hexachlorocyclopentadiene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2,4,6-Trichlorophenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2,4,5-Trichlorophenol	ND		820	ug/Kg	1	10/06/2015 6:39	83162
2-Chloronaphthalene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2-Nitroaniline	ND		820	ug/Kg	1	10/06/2015 6:39	83162
Dimethylphthalate	190	J	400	ug/Kg	1	10/06/2015 6:39	83162
Acenaphthylene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2,6-Dinitrotoluene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
3-Nitroaniline	ND		820	ug/Kg	1	10/06/2015 6:39	83162
Acenaphthene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2,4-Dinitrophenol	ND		820	ug/Kg	1	10/06/2015 6:39	83162
4-Nitrophenol	ND		820	ug/Kg	1	10/06/2015 6:39	83162
Dibenzofuran	ND		400	ug/Kg	1	10/06/2015 6:39	83162
2,4-Dinitrotoluene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Diethylphthalate	ND		400	ug/Kg	1	10/06/2015 6:39	83162
4-Chlorophenyl-phenylether	ND		400	ug/Kg	1	10/06/2015 6:39	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214 **Project:** Barrington, RI site
Lab ID: P1456-12 **Collection Date:** 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
4-Nitroaniline	ND		820	ug/Kg	1	10/06/2015 6:39	83162
4,6-Dinitro-2-methylphenol	ND		820	ug/Kg	1	10/06/2015 6:39	83162
N-Nitrosodiphenylamine	ND		400	ug/Kg	1	10/06/2015 6:39	83162
4-Bromophenyl-phenylether	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Hexachlorobenzene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Pentachlorophenol	ND		820	ug/Kg	1	10/06/2015 6:39	83162
Phenanthrene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Anthracene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Carbazole	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Di-n-butylphthalate	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Fluoranthene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Pyrene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Butylbenzylphthalate	ND		400	ug/Kg	1	10/06/2015 6:39	83162
3,3´-Dichlorobenzidine	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Benzo(a)anthracene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Chrysene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Bis(2-ethylhexyl)phthalate	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Di-n-octylphthalate	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Benzo(b)fluoranthene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Benzo(k)fluoranthene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Benzo(a)pyrene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Indeno(1,2,3-cd)pyrene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Dibenzo(a,h)anthracene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Benzo(g,h,i)perylene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
1,1´-Biphenyl	ND		400	ug/Kg	1	10/06/2015 6:39	83162
3-Methylphenol + 4-Methylphenol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Acetophenone	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Aniline	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Azobenzene	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Benzidine	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Benzoic acid	ND		820	ug/Kg	1	10/06/2015 6:39	83162
Benzyl alcohol	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Bis(2-chloroisopropyl)ether	ND		400	ug/Kg	1	10/06/2015 6:39	83162
N-Nitrosodimethylamine	ND		400	ug/Kg	1	10/06/2015 6:39	83162
Surrogate: Nitrobenzene-d5	77.6		35-100	%REC	1	10/06/2015 6:39	83162
Surrogate: 2-Fluorobiphenyl	71.9		45-105	%REC	1	10/06/2015 6:39	83162
Surrogate: Terphenyl-d14	102		30-125	%REC	1	10/06/2015 6:39	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214
Lab ID: P1456-12
Project: Barrington, RI site
Collection Date: 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	77.1		40-100	%REC	1	10/06/2015 6:39	83162
Surrogate: 2-Fluorophenol	78.0		35-105	%REC	1	10/06/2015 6:39	83162
Surrogate: 2,4,6-Tribromophenol	56.8		35-125	%REC	1	10/06/2015 6:39	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002 **Project:** Barrington, RI site
Lab ID: P1456-13 **Collection Date:** 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Bis(2-chloroethyl)ether	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2-Chlorophenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
1,3-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
1,4-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
1,2-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2-Methylphenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
N-Nitroso-di-n-propylamine	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Hexachloroethane	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Nitrobenzene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Isophorone	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2-Nitrophenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2,4-Dimethylphenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2,4-Dichlorophenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
1,2,4-Trichlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Naphthalene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
4-Chloroaniline	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Bis(2-chloroethoxy)methane	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Hexachlorobutadiene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
4-Chloro-3-methylphenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2-Methylnaphthalene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Hexachlorocyclopentadiene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2,4,6-Trichlorophenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2,4,5-Trichlorophenol	ND		730	ug/Kg	1	10/06/2015 7:04	83162
2-Chloronaphthalene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2-Nitroaniline	ND		730	ug/Kg	1	10/06/2015 7:04	83162
Dimethylphthalate	180	J	360	ug/Kg	1	10/06/2015 7:04	83162
Acenaphthylene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2,6-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
3-Nitroaniline	ND		730	ug/Kg	1	10/06/2015 7:04	83162
Acenaphthene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2,4-Dinitrophenol	ND		730	ug/Kg	1	10/06/2015 7:04	83162
4-Nitrophenol	ND		730	ug/Kg	1	10/06/2015 7:04	83162
Dibenzofuran	ND		360	ug/Kg	1	10/06/2015 7:04	83162
2,4-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Diethylphthalate	ND		360	ug/Kg	1	10/06/2015 7:04	83162
4-Chlorophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 7:04	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002 **Project:** Barrington, RI site
Lab ID: P1456-13 **Collection Date:** 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
4-Nitroaniline	ND		730	ug/Kg	1	10/06/2015 7:04	83162
4,6-Dinitro-2-methylphenol	ND		730	ug/Kg	1	10/06/2015 7:04	83162
N-Nitrosodiphenylamine	ND		360	ug/Kg	1	10/06/2015 7:04	83162
4-Bromophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Hexachlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Pentachlorophenol	ND		730	ug/Kg	1	10/06/2015 7:04	83162
Phenanthrene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Anthracene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Carbazole	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Di-n-butylphthalate	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Fluoranthene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Pyrene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Butylbenzylphthalate	ND		360	ug/Kg	1	10/06/2015 7:04	83162
3,3´-Dichlorobenzidine	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Benzo(a)anthracene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Chrysene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Bis(2-ethylhexyl)phthalate	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Di-n-octylphthalate	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Benzo(b)fluoranthene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Benzo(k)fluoranthene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Benzo(a)pyrene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Indeno(1,2,3-cd)pyrene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Dibenzo(a,h)anthracene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Benzo(g,h,i)perylene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
1,1´-Biphenyl	ND		360	ug/Kg	1	10/06/2015 7:04	83162
3-Methylphenol + 4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Acetophenone	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Aniline	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Azobenzene	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Benzidine	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Benzoic acid	ND		730	ug/Kg	1	10/06/2015 7:04	83162
Benzyl alcohol	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Bis(2-chloroisopropyl)ether	ND		360	ug/Kg	1	10/06/2015 7:04	83162
N-Nitrosodimethylamine	ND		360	ug/Kg	1	10/06/2015 7:04	83162
Surrogate: Nitrobenzene-d5	73.7		35-100	%REC	1	10/06/2015 7:04	83162
Surrogate: 2-Fluorobiphenyl	73.3		45-105	%REC	1	10/06/2015 7:04	83162
Surrogate: Terphenyl-d14	87.8		30-125	%REC	1	10/06/2015 7:04	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002
Lab ID: P1456-13
Project: Barrington, RI site
Collection Date: 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	76.4		40-100	%REC	1	10/06/2015 7:04	83162
Surrogate: 2-Fluorophenol	77.8		35-105	%REC	1	10/06/2015 7:04	83162
Surrogate: 2,4,6-Tribromophenol	52.9		35-125	%REC	1	10/06/2015 7:04	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214 **Project:** Barrington, RI site
Lab ID: P1456-14 **Collection Date:** 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Bis(2-chloroethyl)ether	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2-Chlorophenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
1,3-Dichlorobenzene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
1,4-Dichlorobenzene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
1,2-Dichlorobenzene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2-Methylphenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
4-Methylphenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
N-Nitroso-di-n-propylamine	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Hexachloroethane	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Nitrobenzene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Isophorone	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2-Nitrophenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2,4-Dimethylphenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2,4-Dichlorophenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
1,2,4-Trichlorobenzene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Naphthalene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
4-Chloroaniline	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Bis(2-chloroethoxy)methane	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Hexachlorobutadiene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
4-Chloro-3-methylphenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2-Methylnaphthalene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Hexachlorocyclopentadiene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2,4,6-Trichlorophenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2,4,5-Trichlorophenol	ND		790	ug/Kg	1	10/06/2015 7:30	83162
2-Chloronaphthalene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2-Nitroaniline	ND		790	ug/Kg	1	10/06/2015 7:30	83162
Dimethylphthalate	180	J	390	ug/Kg	1	10/06/2015 7:30	83162
Acenaphthylene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2,6-Dinitrotoluene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
3-Nitroaniline	ND		790	ug/Kg	1	10/06/2015 7:30	83162
Acenaphthene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2,4-Dinitrophenol	ND		790	ug/Kg	1	10/06/2015 7:30	83162
4-Nitrophenol	ND		790	ug/Kg	1	10/06/2015 7:30	83162
Dibenzofuran	ND		390	ug/Kg	1	10/06/2015 7:30	83162
2,4-Dinitrotoluene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Diethylphthalate	ND		390	ug/Kg	1	10/06/2015 7:30	83162
4-Chlorophenyl-phenylether	ND		390	ug/Kg	1	10/06/2015 7:30	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214 **Project:** Barrington, RI site
Lab ID: P1456-14 **Collection Date:** 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
4-Nitroaniline	ND		790	ug/Kg	1	10/06/2015 7:30	83162
4,6-Dinitro-2-methylphenol	ND		790	ug/Kg	1	10/06/2015 7:30	83162
N-Nitrosodiphenylamine	ND		390	ug/Kg	1	10/06/2015 7:30	83162
4-Bromophenyl-phenylether	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Hexachlorobenzene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Pentachlorophenol	ND		790	ug/Kg	1	10/06/2015 7:30	83162
Phenanthrene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Anthracene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Carbazole	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Di-n-butylphthalate	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Fluoranthene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Pyrene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Butylbenzylphthalate	ND		390	ug/Kg	1	10/06/2015 7:30	83162
3,3´-Dichlorobenzidine	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Benzo(a)anthracene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Chrysene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Bis(2-ethylhexyl)phthalate	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Di-n-octylphthalate	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Benzo(b)fluoranthene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Benzo(k)fluoranthene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Benzo(a)pyrene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Indeno(1,2,3-cd)pyrene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Dibenzo(a,h)anthracene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Benzo(g,h,i)perylene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
1,1´-Biphenyl	ND		390	ug/Kg	1	10/06/2015 7:30	83162
3-Methylphenol + 4-Methylphenol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Acetophenone	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Aniline	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Azobenzene	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Benzidine	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Benzoic acid	ND		790	ug/Kg	1	10/06/2015 7:30	83162
Benzyl alcohol	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Bis(2-chloroisopropyl)ether	ND		390	ug/Kg	1	10/06/2015 7:30	83162
N-Nitrosodimethylamine	ND		390	ug/Kg	1	10/06/2015 7:30	83162
Surrogate: Nitrobenzene-d5	81.4		35-100	%REC	1	10/06/2015 7:30	83162
Surrogate: 2-Fluorobiphenyl	80.2		45-105	%REC	1	10/06/2015 7:30	83162
Surrogate: Terphenyl-d14	96.0		30-125	%REC	1	10/06/2015 7:30	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214
Project: Barrington, RI site
Lab ID: P1456-14
Collection Date: 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	86.0		40-100	%REC	1	10/06/2015 7:30	83162
Surrogate: 2-Fluorophenol	84.7		35-105	%REC	1	10/06/2015 7:30	83162
Surrogate: 2,4,6-Tribromophenol	61.9		35-125	%REC	1	10/06/2015 7:30	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03 **Project:** Barrington, RI site
Lab ID: P1456-15 **Collection Date:** 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Bis(2-chloroethyl)ether	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2-Chlorophenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
1,3-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
1,4-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
1,2-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2-Methylphenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
N-Nitroso-di-n-propylamine	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Hexachloroethane	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Nitrobenzene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Isophorone	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2-Nitrophenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2,4-Dimethylphenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2,4-Dichlorophenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
1,2,4-Trichlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Naphthalene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
4-Chloroaniline	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Bis(2-chloroethoxy)methane	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Hexachlorobutadiene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
4-Chloro-3-methylphenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2-Methylnaphthalene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Hexachlorocyclopentadiene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2,4,6-Trichlorophenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2,4,5-Trichlorophenol	ND		720	ug/Kg	1	10/06/2015 7:56	83162
2-Chloronaphthalene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2-Nitroaniline	ND		720	ug/Kg	1	10/06/2015 7:56	83162
Dimethylphthalate	100	J	360	ug/Kg	1	10/06/2015 7:56	83162
Acenaphthylene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2,6-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
3-Nitroaniline	ND		720	ug/Kg	1	10/06/2015 7:56	83162
Acenaphthene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2,4-Dinitrophenol	ND		720	ug/Kg	1	10/06/2015 7:56	83162
4-Nitrophenol	ND		720	ug/Kg	1	10/06/2015 7:56	83162
Dibenzofuran	ND		360	ug/Kg	1	10/06/2015 7:56	83162
2,4-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Diethylphthalate	ND		360	ug/Kg	1	10/06/2015 7:56	83162
4-Chlorophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 7:56	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03 **Project:** Barrington, RI site
Lab ID: P1456-15 **Collection Date:** 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
4-Nitroaniline	ND		720	ug/Kg	1	10/06/2015 7:56	83162
4,6-Dinitro-2-methylphenol	ND		720	ug/Kg	1	10/06/2015 7:56	83162
N-Nitrosodiphenylamine	ND		360	ug/Kg	1	10/06/2015 7:56	83162
4-Bromophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Hexachlorobenzene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Pentachlorophenol	ND		720	ug/Kg	1	10/06/2015 7:56	83162
Phenanthrene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Anthracene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Carbazole	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Di-n-butylphthalate	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Fluoranthene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Pyrene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Butylbenzylphthalate	ND		360	ug/Kg	1	10/06/2015 7:56	83162
3,3´-Dichlorobenzidine	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Benzo(a)anthracene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Chrysene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Bis(2-ethylhexyl)phthalate	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Di-n-octylphthalate	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Benzo(b)fluoranthene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Benzo(k)fluoranthene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Benzo(a)pyrene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Indeno(1,2,3-cd)pyrene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Dibenzo(a,h)anthracene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Benzo(g,h,i)perylene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
1,1´-Biphenyl	ND		360	ug/Kg	1	10/06/2015 7:56	83162
3-Methylphenol + 4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Acetophenone	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Aniline	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Azobenzene	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Benzidine	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Benzoic acid	ND		720	ug/Kg	1	10/06/2015 7:56	83162
Benzyl alcohol	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Bis(2-chloroisopropyl)ether	ND		360	ug/Kg	1	10/06/2015 7:56	83162
N-Nitrosodimethylamine	ND		360	ug/Kg	1	10/06/2015 7:56	83162
Surrogate: Nitrobenzene-d5	78.0		35-100	%REC	1	10/06/2015 7:56	83162
Surrogate: 2-Fluorobiphenyl	75.3		45-105	%REC	1	10/06/2015 7:56	83162
Surrogate: Terphenyl-d14	94.4		30-125	%REC	1	10/06/2015 7:56	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03
Lab ID: P1456-15
Project: Barrington, RI site
Collection Date: 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	74.6		40-100	%REC	1	10/06/2015 7:56	83162
Surrogate: 2-Fluorophenol	76.8		35-105	%REC	1	10/06/2015 7:56	83162
Surrogate: 2,4,6-Tribromophenol	58.2		35-125	%REC	1	10/06/2015 7:56	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002 **Project:** Barrington, RI site
Lab ID: P1456-16 **Collection Date:** 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Bis(2-chloroethyl)ether	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2-Chlorophenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
1,3-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
1,4-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
1,2-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2-Methylphenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
N-Nitroso-di-n-propylamine	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Hexachloroethane	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Nitrobenzene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Isophorone	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2-Nitrophenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2,4-Dimethylphenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2,4-Dichlorophenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
1,2,4-Trichlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Naphthalene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
4-Chloroaniline	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Bis(2-chloroethoxy)methane	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Hexachlorobutadiene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
4-Chloro-3-methylphenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2-Methylnaphthalene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Hexachlorocyclopentadiene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2,4,6-Trichlorophenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2,4,5-Trichlorophenol	ND		720	ug/Kg	1	10/06/2015 8:22	83162
2-Chloronaphthalene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2-Nitroaniline	ND		720	ug/Kg	1	10/06/2015 8:22	83162
Dimethylphthalate	200	J	360	ug/Kg	1	10/06/2015 8:22	83162
Acenaphthylene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2,6-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
3-Nitroaniline	ND		720	ug/Kg	1	10/06/2015 8:22	83162
Acenaphthene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2,4-Dinitrophenol	ND		720	ug/Kg	1	10/06/2015 8:22	83162
4-Nitrophenol	ND		720	ug/Kg	1	10/06/2015 8:22	83162
Dibenzofuran	ND		360	ug/Kg	1	10/06/2015 8:22	83162
2,4-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Diethylphthalate	ND		360	ug/Kg	1	10/06/2015 8:22	83162
4-Chlorophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 8:22	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002 **Project:** Barrington, RI site
Lab ID: P1456-16 **Collection Date:** 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
4-Nitroaniline	ND		720	ug/Kg	1	10/06/2015 8:22	83162
4,6-Dinitro-2-methylphenol	ND		720	ug/Kg	1	10/06/2015 8:22	83162
N-Nitrosodiphenylamine	ND		360	ug/Kg	1	10/06/2015 8:22	83162
4-Bromophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Hexachlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Pentachlorophenol	ND		720	ug/Kg	1	10/06/2015 8:22	83162
Phenanthrene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Anthracene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Carbazole	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Di-n-butylphthalate	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Fluoranthene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Pyrene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Butylbenzylphthalate	ND		360	ug/Kg	1	10/06/2015 8:22	83162
3,3´-Dichlorobenzidine	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Benzo(a)anthracene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Chrysene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Bis(2-ethylhexyl)phthalate	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Di-n-octylphthalate	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Benzo(b)fluoranthene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Benzo(k)fluoranthene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Benzo(a)pyrene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Indeno(1,2,3-cd)pyrene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Dibenzo(a,h)anthracene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Benzo(g,h,i)perylene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
1,1´-Biphenyl	ND		360	ug/Kg	1	10/06/2015 8:22	83162
3-Methylphenol + 4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Acetophenone	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Aniline	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Azobenzene	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Benzidine	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Benzoic acid	ND		720	ug/Kg	1	10/06/2015 8:22	83162
Benzyl alcohol	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Bis(2-chloroisopropyl)ether	ND		360	ug/Kg	1	10/06/2015 8:22	83162
N-Nitrosodimethylamine	ND		360	ug/Kg	1	10/06/2015 8:22	83162
Surrogate: Nitrobenzene-d5	69.7		35-100	%REC	1	10/06/2015 8:22	83162
Surrogate: 2-Fluorobiphenyl	70.3		45-105	%REC	1	10/06/2015 8:22	83162
Surrogate: Terphenyl-d14	91.6		30-125	%REC	1	10/06/2015 8:22	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002
Project: Barrington, RI site
Lab ID: P1456-16
Collection Date: 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	67.3		40-100	%REC	1	10/06/2015 8:22	83162
Surrogate: 2-Fluorophenol	70.1		35-105	%REC	1	10/06/2015 8:22	83162
Surrogate: 2,4,6-Tribromophenol	57.5		35-125	%REC	1	10/06/2015 8:22	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416 **Project:** Barrington, RI site
Lab ID: P1456-17 **Collection Date:** 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Bis(2-chloroethyl)ether	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2-Chlorophenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
1,3-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
1,4-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
1,2-Dichlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2-Methylphenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
N-Nitroso-di-n-propylamine	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Hexachloroethane	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Nitrobenzene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Isophorone	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2-Nitrophenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2,4-Dimethylphenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2,4-Dichlorophenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
1,2,4-Trichlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Naphthalene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
4-Chloroaniline	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Bis(2-chloroethoxy)methane	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Hexachlorobutadiene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
4-Chloro-3-methylphenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2-Methylnaphthalene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Hexachlorocyclopentadiene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2,4,6-Trichlorophenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2,4,5-Trichlorophenol	ND		730	ug/Kg	1	10/06/2015 8:48	83162
2-Chloronaphthalene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2-Nitroaniline	ND		730	ug/Kg	1	10/06/2015 8:48	83162
Dimethylphthalate	110	J	360	ug/Kg	1	10/06/2015 8:48	83162
Acenaphthylene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2,6-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
3-Nitroaniline	ND		730	ug/Kg	1	10/06/2015 8:48	83162
Acenaphthene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2,4-Dinitrophenol	ND		730	ug/Kg	1	10/06/2015 8:48	83162
4-Nitrophenol	ND		730	ug/Kg	1	10/06/2015 8:48	83162
Dibenzofuran	ND		360	ug/Kg	1	10/06/2015 8:48	83162
2,4-Dinitrotoluene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Diethylphthalate	ND		360	ug/Kg	1	10/06/2015 8:48	83162
4-Chlorophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 8:48	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416 **Project:** Barrington, RI site
Lab ID: P1456-17 **Collection Date:** 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
4-Nitroaniline	ND		730	ug/Kg	1	10/06/2015 8:48	83162
4,6-Dinitro-2-methylphenol	ND		730	ug/Kg	1	10/06/2015 8:48	83162
N-Nitrosodiphenylamine	ND		360	ug/Kg	1	10/06/2015 8:48	83162
4-Bromophenyl-phenylether	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Hexachlorobenzene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Pentachlorophenol	ND		730	ug/Kg	1	10/06/2015 8:48	83162
Phenanthrene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Anthracene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Carbazole	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Di-n-butylphthalate	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Fluoranthene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Pyrene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Butylbenzylphthalate	ND		360	ug/Kg	1	10/06/2015 8:48	83162
3,3´-Dichlorobenzidine	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Benzo(a)anthracene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Chrysene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Bis(2-ethylhexyl)phthalate	74	J	360	ug/Kg	1	10/06/2015 8:48	83162
Di-n-octylphthalate	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Benzo(b)fluoranthene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Benzo(k)fluoranthene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Benzo(a)pyrene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Indeno(1,2,3-cd)pyrene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Dibenzo(a,h)anthracene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Benzo(g,h,i)perylene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
1,1´-Biphenyl	ND		360	ug/Kg	1	10/06/2015 8:48	83162
3-Methylphenol + 4-Methylphenol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Acetophenone	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Aniline	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Azobenzene	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Benzidine	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Benzoic acid	ND		730	ug/Kg	1	10/06/2015 8:48	83162
Benzyl alcohol	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Bis(2-chloroisopropyl)ether	ND		360	ug/Kg	1	10/06/2015 8:48	83162
N-Nitrosodimethylamine	ND		360	ug/Kg	1	10/06/2015 8:48	83162
Surrogate: Nitrobenzene-d5	72.0		35-100	%REC	1	10/06/2015 8:48	83162
Surrogate: 2-Fluorobiphenyl	70.1		45-105	%REC	1	10/06/2015 8:48	83162
Surrogate: Terphenyl-d14	93.2		30-125	%REC	1	10/06/2015 8:48	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416
Lab ID: P1456-17
Project: Barrington, RI site
Collection Date: 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	77.0		40-100	%REC	1	10/06/2015 8:48	83162
Surrogate: 2-Fluorophenol	76.6		35-105	%REC	1	10/06/2015 8:48	83162
Surrogate: 2,4,6-Tribromophenol	54.0		35-125	%REC	1	10/06/2015 8:48	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002 **Project:** Barrington, RI site
Lab ID: P1456-18 **Collection Date:** 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2-Chlorophenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2-Methylphenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
4-Methylphenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Hexachloroethane	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Nitrobenzene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Isophorone	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2-Nitrophenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Naphthalene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
4-Chloroaniline	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Hexachlorobutadiene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2-Methylnaphthalene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2,4,5-Trichlorophenol	ND		740	ug/Kg	1	10/06/2015 9:14	83162
2-Chloronaphthalene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2-Nitroaniline	ND		740	ug/Kg	1	10/06/2015 9:14	83162
Dimethylphthalate	140	J	370	ug/Kg	1	10/06/2015 9:14	83162
Acenaphthylene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
3-Nitroaniline	ND		740	ug/Kg	1	10/06/2015 9:14	83162
Acenaphthene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2,4-Dinitrophenol	ND		740	ug/Kg	1	10/06/2015 9:14	83162
4-Nitrophenol	ND		740	ug/Kg	1	10/06/2015 9:14	83162
Dibenzofuran	ND		370	ug/Kg	1	10/06/2015 9:14	83162
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Diethylphthalate	ND		370	ug/Kg	1	10/06/2015 9:14	83162
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/06/2015 9:14	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002 **Project:** Barrington, RI site
Lab ID: P1456-18 **Collection Date:** 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
4-Nitroaniline	ND		740	ug/Kg	1	10/06/2015 9:14	83162
4,6-Dinitro-2-methylphenol	ND		740	ug/Kg	1	10/06/2015 9:14	83162
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/06/2015 9:14	83162
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Hexachlorobenzene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Pentachlorophenol	ND		740	ug/Kg	1	10/06/2015 9:14	83162
Phenanthrene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Anthracene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Carbazole	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Di-n-butylphthalate	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Fluoranthene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Pyrene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Butylbenzylphthalate	ND		370	ug/Kg	1	10/06/2015 9:14	83162
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Benzo(a)anthracene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Chrysene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Di-n-octylphthalate	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Benzo(a)pyrene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
1,1´-Biphenyl	ND		370	ug/Kg	1	10/06/2015 9:14	83162
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Acetophenone	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Aniline	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Azobenzene	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Benzidine	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Benzoic acid	ND		740	ug/Kg	1	10/06/2015 9:14	83162
Benzyl alcohol	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/06/2015 9:14	83162
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/06/2015 9:14	83162
Surrogate: Nitrobenzene-d5	64.7		35-100	%REC	1	10/06/2015 9:14	83162
Surrogate: 2-Fluorobiphenyl	68.4		45-105	%REC	1	10/06/2015 9:14	83162
Surrogate: Terphenyl-d14	94.0		30-125	%REC	1	10/06/2015 9:14	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002
Lab ID: P1456-18
Project: Barrington, RI site
Collection Date: 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	72.2		40-100	%REC	1	10/06/2015 9:14	83162
Surrogate: 2-Fluorophenol	70.6		35-105	%REC	1	10/06/2015 9:14	83162
Surrogate: 2,4,6-Tribromophenol	55.7		35-125	%REC	1	10/06/2015 9:14	83162

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83162** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**

Client ID: **MB-83162** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 0:35** SeqNo: **2313225**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	37	330									
Bis(2-chloroethyl)ether	ND	42	330									
2-Chlorophenol	ND	41	330									
1,3-Dichlorobenzene	ND	40	330									
1,4-Dichlorobenzene	ND	36	330									
1,2-Dichlorobenzene	ND	42	330									
2-Methylphenol	ND	38	330									
4-Methylphenol	ND	35	330									
N-Nitroso-di-n-propylamine	ND	32	330									
Hexachloroethane	ND	35	330									
Nitrobenzene	ND	38	330									
Isophorone	ND	34	330									
2-Nitrophenol	ND	36	330									
2,4-Dimethylphenol	ND	36	330									
2,4-Dichlorophenol	ND	38	330									
1,2,4-Trichlorobenzene	ND	46	330									
Naphthalene	ND	41	330									
4-Chloroaniline	ND	24	330									
Bis(2-chloroethoxy)methane	ND	39	330									
Hexachlorobutadiene	ND	45	330									
4-Chloro-3-methylphenol	ND	26	330									
2-Methylnaphthalene	ND	42	330									
Hexachlorocyclopentadiene	ND	96	330									
2,4,6-Trichlorophenol	ND	39	330									
2,4,5-Trichlorophenol	ND	37	670									
2-Chloronaphthalene	ND	38	330									
2-Nitroaniline	ND	21	670									
Dimethylphthalate	ND	30	330									
Acenaphthylene	ND	37	330									
2,6-Dinitrotoluene	ND	28	330									
3-Nitroaniline	ND	24	670									
Acenaphthene	ND	39	330									
2,4-Dinitrophenol	ND	180	670									
4-Nitrophenol	ND	22	670									
Dibenzofuran	ND	36	330									
2,4-Dinitrotoluene	ND	23	330									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83162** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**
Client ID: **MB-83162** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 0:35** SeqNo: **2313225**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylphthalate	ND	24	330									
4-Chlorophenyl-phenylether	ND	40	330									
Fluorene	ND	33	330									
4-Nitroaniline	ND	25	670									
4,6-Dinitro-2-methylphenol	ND	25	670									
N-Nitrosodiphenylamine	ND	29	330									
4-Bromophenyl-phenylether	ND	32	330									
Hexachlorobenzene	ND	32	330									
Pentachlorophenol	ND	140	670									
Phenanthrene	ND	26	330									
Anthracene	ND	27	330									
Carbazole	ND	28	330									
Di-n-butylphthalate	ND	28	330									
Fluoranthene	ND	29	330									
Pyrene	ND	32	330									
Butylbenzylphthalate	ND	26	330									
3,3´-Dichlorobenzidine	ND	35	330									
Benzo(a)anthracene	ND	33	330									
Chrysene	ND	29	330									
Bis(2-ethylhexyl)phthalate	ND	29	330									
Di-n-octylphthalate	ND	28	330									
Benzo(b)fluoranthene	ND	40	330									
Benzo(k)fluoranthene	ND	43	330									
Benzo(a)pyrene	ND	31	330									
Indeno(1,2,3-cd)pyrene	ND	37	330									
Dibenzo(a,h)anthracene	ND	35	330									
Benzo(g,h,i)perylene	ND	38	330									
1,1´-Biphenyl	ND	42	330									
3-Methylphenol + 4-Methylphenol	ND	35	330									
Acetophenone	ND	31	330									
Aniline	ND	24	330									
Azobenzene	ND	32	330									
Benzidine	ND	130	330									
Benzoic acid	ND	67	670									
Benzyl alcohol	ND	35	330									
Bis(2-chloroisopropyl)ether	ND	33	330									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83162** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**

Client ID: **MB-83162** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 0:35** SeqNo: **2313225**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	ND	34	330									
Surrogate: Nitrobenzene-d5	2700		330	3333	0	81.0	35	100	0			
Surrogate: 2-Fluorobiphenyl	2783		330	3333	0	83.5	45	105	0			
Surrogate: Terphenyl-d14	3623		330	3333	0	109	30	125	0			
Surrogate: Phenol-d5	2728		330	3333	0	81.9	40	100	0			
Surrogate: 2-Fluorophenol	2872		330	3333	0	86.2	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2263		330	3333	0	67.9	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83162** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**
Client ID: **LCS-83162** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 1:01** SeqNo: **2313226**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2188	37	330	3333	0	65.6	40	100	0			
Bis(2-chloroethyl)ether	1925	42	330	3333	0	57.8	40	105	0			
2-Chlorophenol	2156	41	330	3333	0	64.7	45	105	0			
1,3-Dichlorobenzene	1859	40	330	3333	0	55.8	40	100	0			
1,4-Dichlorobenzene	1860	36	330	3333	0	55.8	35	105	0			
1,2-Dichlorobenzene	1957	42	330	3333	0	58.7	45	95	0			
2-Methylphenol	2150	38	330	3333	0	64.5	40	105	0			
4-Methylphenol	2307	35	330	3333	0	69.2	40	105	0			
N-Nitroso-di-n-propylamine	2101	32	330	3333	0	63.0	40	115	0			
Hexachloroethane	1888	35	330	3333	0	56.6	35	110	0			
Nitrobenzene	2166	38	330	3333	0	65.0	40	115	0			
Isophorone	2140	34	330	3333	0	64.2	45	110	0			
2-Nitrophenol	2077	36	330	3333	0	62.3	40	110	0			
2,4-Dimethylphenol	2299	36	330	3333	0	69.0	30	105	0			
2,4-Dichlorophenol	2328	38	330	3333	0	69.8	45	110	0			
1,2,4-Trichlorobenzene	1963	46	330	3333	0	58.9	45	110	0			
Naphthalene	2099	41	330	3333	0	63.0	40	105	0			
4-Chloroaniline	2145	24	330	3333	0	64.3	10	100	0			
Bis(2-chloroethoxy)methane	2233	39	330	3333	0	67.0	45	110	0			
Hexachlorobutadiene	1985	45	330	3333	0	59.6	40	115	0			
4-Chloro-3-methylphenol	2603	26	330	3333	0	78.1	45	115	0			
2-Methylnaphthalene	2149	42	330	3333	0	64.5	45	105	0			
Hexachlorocyclopentadiene	1559	96	330	3333	0	46.8	8.0	148	0			
2,4,6-Trichlorophenol	2609	39	330	3333	0	78.3	45	110	0			
2,4,5-Trichlorophenol	2734	37	670	3333	0	82.0	50	110	0			
2-Chloronaphthalene	2415	38	330	3333	0	72.4	45	105	0			
2-Nitroaniline	2692	21	670	3333	0	80.8	45	120	0			
Dimethylphthalate	2729	30	330	3333	0	81.9	50	110	0			
Acenaphthylene	2628	37	330	3333	0	78.8	45	105	0			
2,6-Dinitrotoluene	2778	28	330	3333	0	83.4	50	110	0			
3-Nitroaniline	2649	24	670	3333	0	79.5	25	110	0			
Acenaphthene	2574	39	330	3333	0	77.2	45	110	0			
2,4-Dinitrophenol	1718	180	670	3333	0	51.6	15	130	0			
4-Nitrophenol	2617	22	670	3333	0	78.5	15	140	0			
Dibenzofuran	2718	36	330	3333	0	81.6	50	105	0			
2,4-Dinitrotoluene	2876	23	330	3333	0	86.3	50	115	0			
Diethylphthalate	2901	24	330	3333	0	87.0	50	115	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83162** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**
Client ID: **LCS-83162** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 1:01** SeqNo: **2313226**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	2703	40	330	3333	0	81.1	45	110	0			
Fluorene	2688	33	330	3333	0	80.6	50	110	0			
4-Nitroaniline	2756	25	670	3333	0	82.7	35	115	0			
4,6-Dinitro-2-methylphenol	2283	25	670	3333	0	68.5	30	135	0			
N-Nitrosodiphenylamine	2937	29	330	3333	0	88.1	50	115	0			
4-Bromophenyl-phenylether	2684	32	330	3333	0	80.5	45	115	0			
Hexachlorobenzene	2634	32	330	3333	0	79.0	45	120	0			
Pentachlorophenol	1718	140	670	3333	0	51.6	25	120	0			
Phenanthrene	2814	26	330	3333	0	84.4	50	110	0			
Anthracene	2835	27	330	3333	0	85.0	55	105	0			
Carbazole	2834	28	330	3333	0	85.0	45	115	0			
Di-n-butylphthalate	2917	28	330	3333	0	87.5	55	110	0			
Fluoranthene	2774	29	330	3333	0	83.2	55	115	0			
Pyrene	3233	32	330	3333	0	97.0	45	125	0			
Butylbenzylphthalate	3120	26	330	3333	0	93.6	50	125	0			
3,3´-Dichlorobenzidine	2901	35	330	3333	0	87.0	10	130	0			
Benzo(a)anthracene	3115	33	330	3333	0	93.5	50	110	0			
Chrysene	3057	29	330	3333	0	91.7	55	110	0			
Bis(2-ethylhexyl)phthalate	3158	29	330	3333	0	94.8	45	125	0			
Di-n-octylphthalate	3613	28	330	3333	0	108	40	130	0			
Benzo(b)fluoranthene	2958	40	330	3333	0	88.7	45	115	0			
Benzo(k)fluoranthene	3067	43	330	3333	0	92.0	45	125	0			
Benzo(a)pyrene	2805	31	330	3333	0	84.2	50	110	0			
Indeno(1,2,3-cd)pyrene	2430	37	330	3333	0	72.9	40	120	0			
Dibenzo(a,h)anthracene	2597	35	330	3333	0	77.9	40	125	0			
Benzo(g,h,i)perylene	2636	38	330	3333	0	79.1	40	125	0			
1,1´-Biphenyl	2441	42	330	3333	0	73.2	50	121	0			
3-Methylphenol + 4-Methylphenol	2307	35	330	3333	0	69.2	40	105	0			
Acetophenone	1986	31	330	3333	0	59.6	50	150	0			
Aniline	1045	24	330	3333	0	31.4	10	150	0			
Azobenzene	3044	32	330	3333	0	91.3	50	150	0			
Benzyl alcohol	2196	35	330	3333	0	65.9	21	119	0			
Bis(2-chloroisopropyl)ether	1789	33	330	3333	0	53.7	40	140	0			
N-Nitrosodimethylamine	1879	34	330	3333	0	56.4	50	150	0			
Surrogate: Nitrobenzene-d5	2198		330	3333	0	65.9	35	100	0			
Surrogate: 2-Fluorobiphenyl	2416		330	3333	0	72.5	45	105	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83162** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**

Client ID: **LCS-83162** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 1:01** SeqNo: **2313226**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Terphenyl-d14	3374		330	3333	0	101	30	125	0			
Surrogate: Phenol-d5	2208		330	3333	0	66.2	40	100	0			
Surrogate: 2-Fluorophenol	2197		330	3333	0	65.9	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2453		330	3333	0	73.6	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**

Client ID: **NOB-103 0002** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 3:11** SeqNo: **2313231**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2562	39	350	3518	0	72.8	40	100	0			
Bis(2-chloroethyl)ether	2261	44	350	3518	0	64.3	40	105	0			
2-Chlorophenol	2542	43	350	3518	0	72.3	45	105	0			
1,3-Dichlorobenzene	2260	42	350	3518	0	64.3	40	100	0			
1,4-Dichlorobenzene	2287	38	350	3518	0	65.0	35	105	0			
1,2-Dichlorobenzene	2348	44	350	3518	0	66.8	45	95	0			
2-Methylphenol	2590	40	350	3518	0	73.6	40	105	0			
4-Methylphenol	2661	37	350	3518	0	75.7	40	105	0			
N-Nitroso-di-n-propylamine	2644	34	350	3518	0	75.2	40	115	0			
Hexachloroethane	2331	37	350	3518	0	66.3	35	110	0			
Nitrobenzene	2655	40	350	3518	0	75.5	40	115	0			
Isophorone	2533	36	350	3518	0	72.0	45	110	0			
2-Nitrophenol	2525	38	350	3518	0	71.8	40	110	0			
2,4-Dimethylphenol	2628	38	350	3518	0	74.7	30	105	0			
2,4-Dichlorophenol	2697	40	350	3518	0	76.7	45	110	0			
1,2,4-Trichlorobenzene	2445	49	350	3518	0	69.5	45	110	0			
Naphthalene	2494	43	350	3518	0	70.9	40	105	0			
4-Chloroaniline	2396	25	350	3518	0	68.1	10	100	0			
Bis(2-chloroethoxy)methane	2716	41	350	3518	0	77.2	45	110	0			
Hexachlorobutadiene	2384	47	350	3518	0	67.8	40	115	0			
4-Chloro-3-methylphenol	2668	27	350	3518	0	75.8	45	115	0			
2-Methylnaphthalene	2480	44	350	3518	0	70.5	45	105	0			
Hexachlorocyclopentadiene	1736	100	350	3518	0	49.3	8.0	148	0			
2,4,6-Trichlorophenol	2450	41	350	3518	0	69.6	45	110	0			
2,4,5-Trichlorophenol	2644	39	710	3518	0	75.2	50	110	0			
2-Chloronaphthalene	2692	40	350	3518	0	76.5	45	105	0			
2-Nitroaniline	2765	22	710	3518	0	78.6	45	120	0			
Dimethylphthalate	2911	32	350	3518	129.8	79.1	50	110	0			
Acenaphthylene	2809	39	350	3518	0	79.8	45	105	0			
2,6-Dinitrotoluene	2792	30	350	3518	0	79.4	50	110	0			
3-Nitroaniline	2619	25	710	3518	0	74.4	25	110	0			
Acenaphthene	2732	41	350	3518	0	77.7	45	110	0			
2,4-Dinitrophenol	1388	190	710	3518	0	39.5	15	130	0			
4-Nitrophenol	2486	23	710	3518	0	70.7	15	140	0			
Dibenzofuran	2772	38	350	3518	0	78.8	50	105	0			
2,4-Dinitrotoluene	2825	24	350	3518	0	80.3	50	115	0			
Diethylphthalate	2804	25	350	3518	0	79.7	50	115	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**

Client ID: **NOB-103 0002** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 3:11** SeqNo: **2313231**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	2787	42	350	3518	0	79.2	45	110	0			
Fluorene	2765	35	350	3518	0	78.6	50	110	0			
4-Nitroaniline	2820	26	710	3518	0	80.2	35	115	0			
4,6-Dinitro-2-methylphenol	1587	26	710	3518	0	45.1	30	135	0			
N-Nitrosodiphenylamine	2966	31	350	3518	0	84.3	50	115	0			
4-Bromophenyl-phenylether	2702	34	350	3518	0	76.8	45	115	0			
Hexachlorobenzene	2544	34	350	3518	0	72.3	45	120	0			
Pentachlorophenol	1071	150	710	3518	0	30.5	25	120	0			
Phenanthrene	2848	27	350	3518	0	81.0	50	110	0			
Anthracene	2859	28	350	3518	0	81.3	55	105	0			
Carbazole	2821	30	350	3518	0	80.2	45	115	0			
Di-n-butylphthalate	2937	30	350	3518	0	83.5	55	110	0			
Fluoranthene	2686	31	350	3518	0	76.4	55	115	0			
Pyrene	3154	34	350	3518	0	89.6	45	125	0			
Butylbenzylphthalate	3126	27	350	3518	0	88.9	50	125	0			
3,3´-Dichlorobenzidine	2822	37	350	3518	0	80.2	10	130	0			
Benzo(a)anthracene	3038	35	350	3518	0	86.4	50	110	0			
Chrysene	2938	31	350	3518	0	83.5	55	110	0			
Bis(2-ethylhexyl)phthalate	3161	31	350	3518	0	89.9	45	125	0			
Di-n-octylphthalate	3422	30	350	3518	0	97.3	40	130	0			
Benzo(b)fluoranthene	2977	42	350	3518	0	84.6	45	115	0			
Benzo(k)fluoranthene	2966	45	350	3518	0	84.3	45	125	0			
Benzo(a)pyrene	2885	33	350	3518	0	82.0	50	110	0			
Indeno(1,2,3-cd)pyrene	2536	39	350	3518	0	72.1	40	120	0			
Dibenzo(a,h)anthracene	2811	37	350	3518	0	79.9	40	125	0			
Benzo(g,h,i)perylene	2731	40	350	3518	0	77.6	40	125	0			
1,1´-Biphenyl	2747	44	350	3518	0	78.1	50	121	0			
3-Methylphenol + 4-Methylphenol	2661	37	350	3518	0	75.7	40	105	0			
Acetophenone	2449	33	350	3518	0	69.6	50	150	0			
Aniline	1286	25	350	3518	0	36.6	10	150	0			
Azobenzene	3159	34	350	3518	0	89.8	50	150	0			
Benzyl alcohol	2632	37	350	3518	0	74.8	21	119	0			
Bis(2-chloroisopropyl)ether	2200	35	350	3518	0	62.5	40	140	0			
N-Nitrosodimethylamine	2360	36	350	3518	0	67.1	50	150	0			
Surrogate: Nitrobenzene-d5	2744		350	3518	0	78.0	35	100	0			
Surrogate: 2-Fluorobiphenyl	2807		350	3518	0	79.8	45	105	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**

Client ID: **NOB-103 0002** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 3:11** SeqNo: **2313231**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Terphenyl-d14	3434		350	3518	0	97.6	30	125	0			
Surrogate: Phenol-d5	2772		350	3518	0	78.8	40	100	0			
Surrogate: 2-Fluorophenol	2801		350	3518	0	79.6	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2369		350	3518	0	67.3	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1456-04AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**
Client ID: **NOB-103 0002** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 3:37** SeqNo: **2313232**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2397	39	350	3518	0	68.1	40	100	2562	6.65	40	
Bis(2-chloroethyl)ether	2159	44	350	3518	0	61.4	40	105	2261	4.58	40	
2-Chlorophenol	2339	43	350	3518	0	66.5	45	105	2542	8.34	40	
1,3-Dichlorobenzene	2126	42	350	3518	0	60.4	40	100	2260	6.11	40	
1,4-Dichlorobenzene	2136	38	350	3518	0	60.7	35	105	2287	6.83	40	
1,2-Dichlorobenzene	2238	44	350	3518	0	63.6	45	95	2348	4.81	40	
2-Methylphenol	2438	40	350	3518	0	69.3	40	105	2590	6.04	40	
4-Methylphenol	2456	37	350	3518	0	69.8	40	105	2661	8.04	40	
N-Nitroso-di-n-propylamine	2381	34	350	3518	0	67.7	40	115	2644	10.4	40	
Hexachloroethane	2142	37	350	3518	0	60.9	35	110	2331	8.45	40	
Nitrobenzene	2411	40	350	3518	0	68.5	40	115	2655	9.66	40	
Isophorone	2348	36	350	3518	0	66.8	45	110	2533	7.59	40	
2-Nitrophenol	2269	38	350	3518	0	64.5	40	110	2525	10.7	40	
2,4-Dimethylphenol	2507	38	350	3518	0	71.3	30	105	2628	4.71	40	
2,4-Dichlorophenol	2530	40	350	3518	0	71.9	45	110	2697	6.38	40	
1,2,4-Trichlorobenzene	2215	49	350	3518	0	63.0	45	110	2445	9.87	40	
Naphthalene	2267	43	350	3518	0	64.4	40	105	2494	9.55	40	
4-Chloroaniline	2220	25	350	3518	0	63.1	10	100	2396	7.63	40	
Bis(2-chloroethoxy)methane	2486	41	350	3518	0	70.7	45	110	2716	8.85	40	
Hexachlorobutadiene	2234	47	350	3518	0	63.5	40	115	2384	6.5	40	
4-Chloro-3-methylphenol	2658	27	350	3518	0	75.6	45	115	2668	0.375	40	
2-Methylnaphthalene	2281	44	350	3518	0	64.8	45	105	2480	8.36	40	
Hexachlorocyclopentadiene	1554	100	350	3518	0	44.2	8.0	148	1736	11.1	40	
2,4,6-Trichlorophenol	2488	41	350	3518	0	70.7	45	110	2450	1.53	40	
2,4,5-Trichlorophenol	2655	39	710	3518	0	75.5	50	110	2644	0.429	40	
2-Chloronaphthalene	2503	40	350	3518	0	71.2	45	105	2692	7.24	40	
2-Nitroaniline	2804	22	710	3518	0	79.7	45	120	2765	1.43	40	
Dimethylphthalate	2833	32	350	3518	129.8	76.9	50	110	2911	2.69	40	
Acenaphthylene	2635	39	350	3518	0	74.9	45	105	2809	6.4	40	
2,6-Dinitrotoluene	2775	30	350	3518	0	78.9	50	110	2792	0.621	40	
3-Nitroaniline	2644	25	710	3518	0	75.1	25	110	2619	0.953	40	
Acenaphthene	2563	41	350	3518	0	72.9	45	110	2732	6.38	40	
2,4-Dinitrophenol	1321	190	710	3518	0	37.6	15	130	1388	4.95	40	
4-Nitrophenol	2526	23	710	3518	0	71.8	15	140	2486	1.62	40	
Dibenzofuran	2685	38	350	3518	0	76.3	50	105	2772	3.19	40	
2,4-Dinitrotoluene	2812	24	350	3518	0	79.9	50	115	2825	0.431	40	
Diethylphthalate	2839	25	350	3518	0	80.7	50	115	2804	1.23	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1456-04AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**
Client ID: **NOB-103 0002** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 3:37** SeqNo: **2313232**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	2622	42	350	3518	0	74.5	45	110	2787	6.09	40	
Fluorene	2697	35	350	3518	0	76.7	50	110	2765	2.49	40	
4-Nitroaniline	2855	26	710	3518	0	81.1	35	115	2820	1.21	40	
4,6-Dinitro-2-methylphenol	1578	26	710	3518	0	44.9	30	135	1587	0.529	40	
N-Nitrosodiphenylamine	2842	31	350	3518	0	80.8	50	115	2966	4.27	40	
4-Bromophenyl-phenylether	2714	34	350	3518	0	77.2	45	115	2702	0.446	40	
Hexachlorobenzene	2593	34	350	3518	0	73.7	45	120	2544	1.91	40	
Pentachlorophenol	1167	150	710	3518	0	33.2	25	120	1071	8.59	40	
Phenanthrene	2800	27	350	3518	0	79.6	50	110	2848	1.7	40	
Anthracene	2793	28	350	3518	0	79.4	55	105	2859	2.33	40	
Carbazole	2776	30	350	3518	0	78.9	45	115	2821	1.63	40	
Di-n-butylphthalate	2902	30	350	3518	0	82.5	55	110	2937	1.19	40	
Fluoranthene	2756	31	350	3518	0	78.3	55	115	2686	2.56	40	
Pyrene	3081	34	350	3518	0	87.6	45	125	3154	2.34	40	
Butylbenzylphthalate	3061	27	350	3518	0	87.0	50	125	3126	2.1	40	
3,3´-Dichlorobenzidine	2910	37	350	3518	0	82.7	10	130	2822	3.1	40	
Benzo(a)anthracene	3034	35	350	3518	0	86.2	50	110	3038	0.132	40	
Chrysene	3011	31	350	3518	0	85.6	55	110	2938	2.47	40	
Bis(2-ethylhexyl)phthalate	3133	31	350	3518	0	89.0	45	125	3161	0.905	40	
Di-n-octylphthalate	3369	30	350	3518	0	95.8	40	130	3422	1.56	40	
Benzo(b)fluoranthene	2963	42	350	3518	0	84.2	45	115	2977	0.459	40	
Benzo(k)fluoranthene	2891	45	350	3518	0	82.2	45	125	2966	2.57	40	
Benzo(a)pyrene	2795	33	350	3518	0	79.5	50	110	2885	3.15	40	
Indeno(1,2,3-cd)pyrene	2447	39	350	3518	0	69.5	40	120	2536	3.58	40	
Dibenzo(a,h)anthracene	2575	37	350	3518	0	73.2	40	125	2811	8.77	40	
Benzo(g,h,i)perylene	2526	40	350	3518	0	71.8	40	125	2731	7.78	40	
1,1´-Biphenyl	2508	44	350	3518	0	71.3	50	121	2747	9.11	40	
3-Methylphenol + 4-Methylphenol	2456	37	350	3518	0	69.8	40	105	2661	8.04	40	
Acetophenone	2213	33	350	3518	0	62.9	50	150	2449	10.1	40	
Aniline	1201	25	350	3518	0	34.1	10	150	1286	6.89	40	
Azobenzene	3085	34	350	3518	0	87.7	50	150	3159	2.39	40	
Benzyl alcohol	2471	37	350	3518	0	70.2	21	119	2632	6.33	40	
Bis(2-chloroisopropyl)ether	1990	35	350	3518	0	56.6	40	140	2200	10	30	
N-Nitrosodimethylamine	2144	36	350	3518	0	60.9	50	150	2360	9.57	40	
Surrogate: Nitrobenzene-d5	2553		350	3518	0	72.6	35	100	0			
Surrogate: 2-Fluorobiphenyl	2586		350	3518	0	73.5	45	105	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1456-04AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/01/15 9:29** Run ID: **S6_151005B**

Client ID: **NOB-103 0002** Batch ID: **83162** Units: **ug/Kg** Analysis Date: **10/06/15 3:37** SeqNo: **2313232**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Terphenyl-d14	3374		350	3518	0	95.9	30	125	0			
Surrogate: Phenol-d5	2588		350	3518	0	73.6	40	100	0			
Surrogate: 2-Fluorophenol	2604		350	3518	0	74.0	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2433		350	3518	0	69.2	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709
Project: Barrington, RI site
Lab ID: P1456-01
Collection Date: 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
beta-BHC	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
delta-BHC	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
Heptachlor	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
Aldrin	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
Endosulfan I	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
Dieldrin	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
4,4´-DDE	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
Endrin	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
Endosulfan II	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
4,4´-DDD	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
Endosulfan sulfate	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
4,4´-DDT	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
Methoxychlor	ND		19	ug/Kg	1	10/03/2015 19:16	83163
Endrin ketone	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
Endrin aldehyde	ND		3.8	ug/Kg	1	10/03/2015 19:16	83163
alpha-Chlordane	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
gamma-Chlordane	ND		1.9	ug/Kg	1	10/03/2015 19:16	83163
Toxaphene	ND		190	ug/Kg	1	10/03/2015 19:16	83163
Surrogate: Tetrachloro-m-xylene	71.3		14-113	%REC	1	10/03/2015 19:16	83163
Surrogate: Decachlorobiphenyl	108		55-130	%REC	1	10/03/2015 19:16	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002
Lab ID: P1456-02
Project: Barrington, RI site
Collection Date: 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.3	ug/Kg	1	10/03/2015 19:31	83163
beta-BHC	1.4	J	2.3	ug/Kg	1	10/03/2015 19:31	83163
delta-BHC	ND		2.3	ug/Kg	1	10/03/2015 19:31	83163
gamma-BHC (Lindane)	ND		2.3	ug/Kg	1	10/03/2015 19:31	83163
Heptachlor	ND		2.3	ug/Kg	1	10/03/2015 19:31	83163
Aldrin	ND		2.3	ug/Kg	1	10/03/2015 19:31	83163
Heptachlor epoxide	1.2	J	2.3	ug/Kg	1	10/03/2015 19:31	83163
Endosulfan I	ND		2.3	ug/Kg	1	10/03/2015 19:31	83163
Dieldrin	ND		4.4	ug/Kg	1	10/03/2015 19:31	83163
4,4´-DDE	37		4.4	ug/Kg	1	10/03/2015 19:31	83163
Endrin	5.2		4.4	ug/Kg	1	10/03/2015 19:31	83163
Endosulfan II	ND		4.4	ug/Kg	1	10/03/2015 19:31	83163
4,4´-DDD	ND		4.4	ug/Kg	1	10/03/2015 19:31	83163
Endosulfan sulfate	ND		4.4	ug/Kg	1	10/03/2015 19:31	83163
4,4´-DDT	31		4.4	ug/Kg	1	10/03/2015 19:31	83163
Methoxychlor	ND		23	ug/Kg	1	10/03/2015 19:31	83163
Endrin ketone	ND		4.4	ug/Kg	1	10/03/2015 19:31	83163
Endrin aldehyde	ND		4.4	ug/Kg	1	10/03/2015 19:31	83163
alpha-Chlordane	8.6		2.3	ug/Kg	1	10/03/2015 19:31	83163
gamma-Chlordane	4.8		2.3	ug/Kg	1	10/03/2015 19:31	83163
Toxaphene	ND		230	ug/Kg	1	10/03/2015 19:31	83163
Surrogate: Tetrachloro-m-xylene	71.9		14-113	%REC	1	10/03/2015 19:31	83163
Surrogate: Decachlorobiphenyl	96.4		55-130	%REC	1	10/03/2015 19:31	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709
Project: Barrington, RI site
Lab ID: P1456-03
Collection Date: 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
beta-BHC	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
delta-BHC	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
gamma-BHC (Lindane)	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
Heptachlor	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
Aldrin	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
Heptachlor epoxide	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
Endosulfan I	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
Dieldrin	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
4,4´-DDE	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
Endrin	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
Endosulfan II	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
4,4´-DDD	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
Endosulfan sulfate	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
4,4´-DDT	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
Methoxychlor	ND		17	ug/Kg	1	10/03/2015 19:46	83163
Endrin ketone	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
Endrin aldehyde	ND		3.4	ug/Kg	1	10/03/2015 19:46	83163
alpha-Chlordane	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
gamma-Chlordane	ND		1.7	ug/Kg	1	10/03/2015 19:46	83163
Toxaphene	ND		170	ug/Kg	1	10/03/2015 19:46	83163
Surrogate: Tetrachloro-m-xylene	68.2		14-113	%REC	1	10/03/2015 19:46	83163
Surrogate: Decachlorobiphenyl	95.6		55-130	%REC	1	10/03/2015 19:46	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002 **Project:** Barrington, RI site
Lab ID: P1456-04 **Collection Date:** 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/03/2015 20:02	83163
beta-BHC	1.0	J	1.8	ug/Kg	1	10/03/2015 20:02	83163
delta-BHC	ND		1.8	ug/Kg	1	10/03/2015 20:02	83163
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/03/2015 20:02	83163
Heptachlor	ND		1.8	ug/Kg	1	10/03/2015 20:02	83163
Aldrin	ND		1.8	ug/Kg	1	10/03/2015 20:02	83163
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/03/2015 20:02	83163
Endosulfan I	ND		1.8	ug/Kg	1	10/03/2015 20:02	83163
Dieldrin	ND		3.5	ug/Kg	1	10/03/2015 20:02	83163
4,4´-DDE	12		3.5	ug/Kg	1	10/03/2015 20:02	83163
Endrin	ND		3.5	ug/Kg	1	10/03/2015 20:02	83163
Endosulfan II	ND		3.5	ug/Kg	1	10/03/2015 20:02	83163
4,4´-DDD	ND		3.5	ug/Kg	1	10/03/2015 20:02	83163
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/03/2015 20:02	83163
4,4´-DDT	8.9		3.5	ug/Kg	1	10/03/2015 20:02	83163
Methoxychlor	ND		18	ug/Kg	1	10/03/2015 20:02	83163
Endrin ketone	ND		3.5	ug/Kg	1	10/03/2015 20:02	83163
Endrin aldehyde	ND		3.5	ug/Kg	1	10/03/2015 20:02	83163
alpha-Chlordane	2.7		1.8	ug/Kg	1	10/03/2015 20:02	83163
gamma-Chlordane	2.2		1.8	ug/Kg	1	10/03/2015 20:02	83163
Toxaphene	ND		180	ug/Kg	1	10/03/2015 20:02	83163
Surrogate: Tetrachloro-m-xylene	67.7		14-113	%REC	1	10/03/2015 20:02	83163
Surrogate: Decachlorobiphenyl	65.5		55-130	%REC	1	10/03/2015 20:02	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315 **Project:** Barrington, RI site
Lab ID: P1456-05 **Collection Date:** 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
beta-BHC	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
delta-BHC	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
gamma-BHC (Lindane)	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
Heptachlor	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
Aldrin	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
Heptachlor epoxide	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
Endosulfan I	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
Dieldrin	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
4,4´-DDE	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
Endrin	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
Endosulfan II	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
4,4´-DDD	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
Endosulfan sulfate	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
4,4´-DDT	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
Methoxychlor	ND		22	ug/Kg	1	10/03/2015 20:47	83163
Endrin ketone	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
Endrin aldehyde	ND		4.3	ug/Kg	1	10/03/2015 20:47	83163
alpha-Chlordane	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
gamma-Chlordane	ND		2.2	ug/Kg	1	10/03/2015 20:47	83163
Toxaphene	ND		220	ug/Kg	1	10/03/2015 20:47	83163
Surrogate: Tetrachloro-m-xylene	67.3		14-113	%REC	1	10/03/2015 20:47	83163
Surrogate: Decachlorobiphenyl	75.4		55-130	%REC	1	10/03/2015 20:47	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002
Lab ID: P1456-06
Project: Barrington, RI site
Collection Date: 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.1	ug/Kg	1	10/03/2015 21:03	83163
beta-BHC	ND		2.1	ug/Kg	1	10/03/2015 21:03	83163
delta-BHC	ND		2.1	ug/Kg	1	10/03/2015 21:03	83163
gamma-BHC (Lindane)	ND		2.1	ug/Kg	1	10/03/2015 21:03	83163
Heptachlor	ND		2.1	ug/Kg	1	10/03/2015 21:03	83163
Aldrin	ND		2.1	ug/Kg	1	10/03/2015 21:03	83163
Heptachlor epoxide	ND		2.1	ug/Kg	1	10/03/2015 21:03	83163
Endosulfan I	ND		2.1	ug/Kg	1	10/03/2015 21:03	83163
Dieldrin	ND		4.2	ug/Kg	1	10/03/2015 21:03	83163
4,4´-DDE	14		4.2	ug/Kg	1	10/03/2015 21:03	83163
Endrin	2.1	J	4.2	ug/Kg	1	10/03/2015 21:03	83163
Endosulfan II	ND		4.2	ug/Kg	1	10/03/2015 21:03	83163
4,4´-DDD	ND		4.2	ug/Kg	1	10/03/2015 21:03	83163
Endosulfan sulfate	ND		4.2	ug/Kg	1	10/03/2015 21:03	83163
4,4´-DDT	16		4.2	ug/Kg	1	10/03/2015 21:03	83163
Methoxychlor	ND		21	ug/Kg	1	10/03/2015 21:03	83163
Endrin ketone	ND		4.2	ug/Kg	1	10/03/2015 21:03	83163
Endrin aldehyde	ND		4.2	ug/Kg	1	10/03/2015 21:03	83163
alpha-Chlordane	3.2		2.1	ug/Kg	1	10/03/2015 21:03	83163
gamma-Chlordane	1.9	J	2.1	ug/Kg	1	10/03/2015 21:03	83163
Toxaphene	ND		210	ug/Kg	1	10/03/2015 21:03	83163
Surrogate: Tetrachloro-m-xylene	68.6		14-113	%REC	1	10/03/2015 21:03	83163
Surrogate: Decachlorobiphenyl	103		55-130	%REC	1	10/03/2015 21:03	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709
Project: Barrington, RI site
Lab ID: P1456-07
Collection Date: 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
beta-BHC	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
delta-BHC	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
Heptachlor	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
Aldrin	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
Endosulfan I	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
Dieldrin	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
4,4´-DDE	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
Endrin	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
Endosulfan II	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
4,4´-DDD	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
Endosulfan sulfate	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
4,4´-DDT	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
Methoxychlor	ND		19	ug/Kg	1	10/03/2015 21:18	83163
Endrin ketone	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
Endrin aldehyde	ND		3.6	ug/Kg	1	10/03/2015 21:18	83163
alpha-Chlordane	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
gamma-Chlordane	ND		1.9	ug/Kg	1	10/03/2015 21:18	83163
Toxaphene	ND		190	ug/Kg	1	10/03/2015 21:18	83163
Surrogate: Tetrachloro-m-xylene	67.8		14-113	%REC	1	10/03/2015 21:18	83163
Surrogate: Decachlorobiphenyl	97.5		55-130	%REC	1	10/03/2015 21:18	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002 **Project:** Barrington, RI site
Lab ID: P1456-09 **Collection Date:** 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/03/2015 21:33	83163
beta-BHC	ND		1.9	ug/Kg	1	10/03/2015 21:33	83163
delta-BHC	1.4	J	1.9	ug/Kg	1	10/03/2015 21:33	83163
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/03/2015 21:33	83163
Heptachlor	ND		1.9	ug/Kg	1	10/03/2015 21:33	83163
Aldrin	ND		1.9	ug/Kg	1	10/03/2015 21:33	83163
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/03/2015 21:33	83163
Endosulfan I	ND		1.9	ug/Kg	1	10/03/2015 21:33	83163
Dieldrin	2.0	J	3.7	ug/Kg	1	10/03/2015 21:33	83163
4,4´-DDE	16		3.7	ug/Kg	1	10/03/2015 21:33	83163
Endrin	ND		3.7	ug/Kg	1	10/03/2015 21:33	83163
Endosulfan II	ND		3.7	ug/Kg	1	10/03/2015 21:33	83163
4,4´-DDD	4.9		3.7	ug/Kg	1	10/03/2015 21:33	83163
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/03/2015 21:33	83163
4,4´-DDT	11		3.7	ug/Kg	1	10/03/2015 21:33	83163
Methoxychlor	ND		19	ug/Kg	1	10/03/2015 21:33	83163
Endrin ketone	ND		3.7	ug/Kg	1	10/03/2015 21:33	83163
Endrin aldehyde	ND		3.7	ug/Kg	1	10/03/2015 21:33	83163
alpha-Chlordane	3.6		1.9	ug/Kg	1	10/03/2015 21:33	83163
gamma-Chlordane	2.1		1.9	ug/Kg	1	10/03/2015 21:33	83163
Toxaphene	ND		190	ug/Kg	1	10/03/2015 21:33	83163
Surrogate: Tetrachloro-m-xylene	60.4		14-113	%REC	1	10/03/2015 21:33	83163
Surrogate: Decachlorobiphenyl	63.6		55-130	%REC	1	10/03/2015 21:33	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214
Project: Barrington, RI site
Lab ID: P1456-10
Collection Date: 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
beta-BHC	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
delta-BHC	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
Heptachlor	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
Aldrin	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
Endosulfan I	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
Dieldrin	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
4,4´-DDE	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
Endrin	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
Endosulfan II	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
4,4´-DDD	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
4,4´-DDT	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
Methoxychlor	ND		18	ug/Kg	1	10/03/2015 21:48	83163
Endrin ketone	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
Endrin aldehyde	ND		3.5	ug/Kg	1	10/03/2015 21:48	83163
alpha-Chlordane	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
gamma-Chlordane	ND		1.8	ug/Kg	1	10/03/2015 21:48	83163
Toxaphene	ND		180	ug/Kg	1	10/03/2015 21:48	83163
Surrogate: Tetrachloro-m-xylene	62.9		14-113	%REC	1	10/03/2015 21:48	83163
Surrogate: Decachlorobiphenyl	68.0		55-130	%REC	1	10/03/2015 21:48	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002 **Project:** Barrington, RI site
Lab ID: P1456-11 **Collection Date:** 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		19	ug/Kg	10	10/05/2015 22:04	83163
beta-BHC	ND		19	ug/Kg	10	10/05/2015 22:04	83163
delta-BHC	ND		19	ug/Kg	10	10/05/2015 22:04	83163
gamma-BHC (Lindane)	ND		19	ug/Kg	10	10/05/2015 22:04	83163
Heptachlor	ND		19	ug/Kg	10	10/05/2015 22:04	83163
Aldrin	ND		19	ug/Kg	10	10/05/2015 22:04	83163
Heptachlor epoxide	15	JP	19	ug/Kg	10	10/05/2015 22:04	83163
Endosulfan I	ND		19	ug/Kg	10	10/05/2015 22:04	83163
Dieldrin	97		37	ug/Kg	10	10/05/2015 22:04	83163
4,4´-DDE	22	J	37	ug/Kg	10	10/05/2015 22:04	83163
Endrin	ND		37	ug/Kg	10	10/05/2015 22:04	83163
Endosulfan II	ND		37	ug/Kg	10	10/05/2015 22:04	83163
4,4´-DDD	62		37	ug/Kg	10	10/05/2015 22:04	83163
Endosulfan sulfate	ND		37	ug/Kg	10	10/05/2015 22:04	83163
4,4´-DDT	ND		37	ug/Kg	10	10/05/2015 22:04	83163
Methoxychlor	ND		190	ug/Kg	10	10/05/2015 22:04	83163
Endrin ketone	ND		37	ug/Kg	10	10/05/2015 22:04	83163
Endrin aldehyde	ND		37	ug/Kg	10	10/05/2015 22:04	83163
alpha-Chlordane	130	P	19	ug/Kg	10	10/05/2015 22:04	83163
gamma-Chlordane	85		19	ug/Kg	10	10/05/2015 22:04	83163
Toxaphene	ND		1900	ug/Kg	10	10/05/2015 22:04	83163
Surrogate: Tetrachloro-m-xylene	89.0		14-113	%REC	10	10/05/2015 22:04	83163
Surrogate: Decachlorobiphenyl	97.4		55-130	%REC	10	10/05/2015 22:04	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214
Project: Barrington, RI site
Lab ID: P1456-12
Collection Date: 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.1	ug/Kg	1	10/03/2015 22:19	83163
beta-BHC	ND		2.1	ug/Kg	1	10/03/2015 22:19	83163
delta-BHC	ND		2.1	ug/Kg	1	10/03/2015 22:19	83163
gamma-BHC (Lindane)	ND		2.1	ug/Kg	1	10/03/2015 22:19	83163
Heptachlor	ND		2.1	ug/Kg	1	10/03/2015 22:19	83163
Aldrin	ND		2.1	ug/Kg	1	10/03/2015 22:19	83163
Heptachlor epoxide	ND		2.1	ug/Kg	1	10/03/2015 22:19	83163
Endosulfan I	ND		2.1	ug/Kg	1	10/03/2015 22:19	83163
Dieldrin	3.5	J	4.0	ug/Kg	1	10/03/2015 22:19	83163
4,4´-DDE	ND		4.0	ug/Kg	1	10/03/2015 22:19	83163
Endrin	ND		4.0	ug/Kg	1	10/03/2015 22:19	83163
Endosulfan II	ND		4.0	ug/Kg	1	10/03/2015 22:19	83163
4,4´-DDD	ND		4.0	ug/Kg	1	10/03/2015 22:19	83163
Endosulfan sulfate	ND		4.0	ug/Kg	1	10/03/2015 22:19	83163
4,4´-DDT	ND		4.0	ug/Kg	1	10/03/2015 22:19	83163
Methoxychlor	ND		21	ug/Kg	1	10/03/2015 22:19	83163
Endrin ketone	ND		4.0	ug/Kg	1	10/03/2015 22:19	83163
Endrin aldehyde	ND		4.0	ug/Kg	1	10/03/2015 22:19	83163
alpha-Chlordane	4.7		2.1	ug/Kg	1	10/03/2015 22:19	83163
gamma-Chlordane	4.3		2.1	ug/Kg	1	10/03/2015 22:19	83163
Toxaphene	ND		210	ug/Kg	1	10/03/2015 22:19	83163
Surrogate: Tetrachloro-m-xylene	68.8		14-113	%REC	1	10/03/2015 22:19	83163
Surrogate: Decachlorobiphenyl	77.2		55-130	%REC	1	10/03/2015 22:19	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002
Lab ID: P1456-13
Project: Barrington, RI site
Collection Date: 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/03/2015 22:34	83163
beta-BHC	ND		1.8	ug/Kg	1	10/03/2015 22:34	83163
delta-BHC	ND		1.8	ug/Kg	1	10/03/2015 22:34	83163
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/03/2015 22:34	83163
Heptachlor	ND		1.8	ug/Kg	1	10/03/2015 22:34	83163
Aldrin	ND		1.8	ug/Kg	1	10/03/2015 22:34	83163
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/03/2015 22:34	83163
Endosulfan I	ND		1.8	ug/Kg	1	10/03/2015 22:34	83163
Dieldrin	ND		3.6	ug/Kg	1	10/03/2015 22:34	83163
4,4´-DDE	15		3.6	ug/Kg	1	10/03/2015 22:34	83163
Endrin	2.3	J	3.6	ug/Kg	1	10/03/2015 22:34	83163
Endosulfan II	ND		3.6	ug/Kg	1	10/03/2015 22:34	83163
4,4´-DDD	ND		3.6	ug/Kg	1	10/03/2015 22:34	83163
Endosulfan sulfate	ND		3.6	ug/Kg	1	10/03/2015 22:34	83163
4,4´-DDT	12		3.6	ug/Kg	1	10/03/2015 22:34	83163
Methoxychlor	ND		18	ug/Kg	1	10/03/2015 22:34	83163
Endrin ketone	ND		3.6	ug/Kg	1	10/03/2015 22:34	83163
Endrin aldehyde	ND		3.6	ug/Kg	1	10/03/2015 22:34	83163
alpha-Chlordane	4.7		1.8	ug/Kg	1	10/03/2015 22:34	83163
gamma-Chlordane	3.4		1.8	ug/Kg	1	10/03/2015 22:34	83163
Toxaphene	ND		180	ug/Kg	1	10/03/2015 22:34	83163
Surrogate: Tetrachloro-m-xylene	62.2		14-113	%REC	1	10/03/2015 22:34	83163
Surrogate: Decachlorobiphenyl	69.0		55-130	%REC	1	10/03/2015 22:34	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214
Project: Barrington, RI site
Lab ID: P1456-14
Collection Date: 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
beta-BHC	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
delta-BHC	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
gamma-BHC (Lindane)	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
Heptachlor	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
Aldrin	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
Heptachlor epoxide	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
Endosulfan I	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
Dieldrin	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
4,4´-DDE	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
Endrin	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
Endosulfan II	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
4,4´-DDD	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
Endosulfan sulfate	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
4,4´-DDT	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
Methoxychlor	ND		20	ug/Kg	1	10/03/2015 22:49	83163
Endrin ketone	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
Endrin aldehyde	ND		3.9	ug/Kg	1	10/03/2015 22:49	83163
alpha-Chlordane	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
gamma-Chlordane	ND		2.0	ug/Kg	1	10/03/2015 22:49	83163
Toxaphene	ND		200	ug/Kg	1	10/03/2015 22:49	83163
Surrogate: Tetrachloro-m-xylene	70.9		14-113	%REC	1	10/03/2015 22:49	83163
Surrogate: Decachlorobiphenyl	96.1		55-130	%REC	1	10/03/2015 22:49	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03 **Project:** Barrington, RI site
Lab ID: P1456-15 **Collection Date:** 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/03/2015 23:04	83163
beta-BHC	ND		1.8	ug/Kg	1	10/03/2015 23:04	83163
delta-BHC	ND		1.8	ug/Kg	1	10/03/2015 23:04	83163
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/03/2015 23:04	83163
Heptachlor	ND		1.8	ug/Kg	1	10/03/2015 23:04	83163
Aldrin	ND		1.8	ug/Kg	1	10/03/2015 23:04	83163
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/03/2015 23:04	83163
Endosulfan I	ND		1.8	ug/Kg	1	10/03/2015 23:04	83163
Dieldrin	ND		3.6	ug/Kg	1	10/03/2015 23:04	83163
4,4´-DDE	14		3.6	ug/Kg	1	10/03/2015 23:04	83163
Endrin	2.6	J	3.6	ug/Kg	1	10/03/2015 23:04	83163
Endosulfan II	ND		3.6	ug/Kg	1	10/03/2015 23:04	83163
4,4´-DDD	ND		3.6	ug/Kg	1	10/03/2015 23:04	83163
Endosulfan sulfate	ND		3.6	ug/Kg	1	10/03/2015 23:04	83163
4,4´-DDT	10		3.6	ug/Kg	1	10/03/2015 23:04	83163
Methoxychlor	ND		18	ug/Kg	1	10/03/2015 23:04	83163
Endrin ketone	ND		3.6	ug/Kg	1	10/03/2015 23:04	83163
Endrin aldehyde	ND		3.6	ug/Kg	1	10/03/2015 23:04	83163
alpha-Chlordane	4.7		1.8	ug/Kg	1	10/03/2015 23:04	83163
gamma-Chlordane	3.9		1.8	ug/Kg	1	10/03/2015 23:04	83163
Toxaphene	ND		180	ug/Kg	1	10/03/2015 23:04	83163
Surrogate: Tetrachloro-m-xylene	67.2		14-113	%REC	1	10/03/2015 23:04	83163
Surrogate: Decachlorobiphenyl	73.6		55-130	%REC	1	10/03/2015 23:04	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002 **Project:** Barrington, RI site
Lab ID: P1456-16 **Collection Date:** 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/03/2015 23:19	83163
beta-BHC	ND		1.8	ug/Kg	1	10/03/2015 23:19	83163
delta-BHC	ND		1.8	ug/Kg	1	10/03/2015 23:19	83163
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/03/2015 23:19	83163
Heptachlor	ND		1.8	ug/Kg	1	10/03/2015 23:19	83163
Aldrin	ND		1.8	ug/Kg	1	10/03/2015 23:19	83163
Heptachlor epoxide	1.2	J	1.8	ug/Kg	1	10/03/2015 23:19	83163
Endosulfan I	ND		1.8	ug/Kg	1	10/03/2015 23:19	83163
Dieldrin	ND		3.6	ug/Kg	1	10/03/2015 23:19	83163
4,4´-DDE	52		3.6	ug/Kg	1	10/03/2015 23:19	83163
Endrin	7.4		3.6	ug/Kg	1	10/03/2015 23:19	83163
Endosulfan II	ND		3.6	ug/Kg	1	10/03/2015 23:19	83163
4,4´-DDD	ND		3.6	ug/Kg	1	10/03/2015 23:19	83163
Endosulfan sulfate	ND		3.6	ug/Kg	1	10/03/2015 23:19	83163
4,4´-DDT	37		3.6	ug/Kg	1	10/03/2015 23:19	83163
Methoxychlor	ND		18	ug/Kg	1	10/03/2015 23:19	83163
Endrin ketone	ND		3.6	ug/Kg	1	10/03/2015 23:19	83163
Endrin aldehyde	ND		3.6	ug/Kg	1	10/03/2015 23:19	83163
alpha-Chlordane	12		1.8	ug/Kg	1	10/03/2015 23:19	83163
gamma-Chlordane	8.3		1.8	ug/Kg	1	10/03/2015 23:19	83163
Toxaphene	ND		180	ug/Kg	1	10/03/2015 23:19	83163
Surrogate: Tetrachloro-m-xylene	57.9		14-113	%REC	1	10/03/2015 23:19	83163
Surrogate: Decachlorobiphenyl	57.4		55-130	%REC	1	10/03/2015 23:19	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416
Project: Barrington, RI site
Lab ID: P1456-17
Collection Date: 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
beta-BHC	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
delta-BHC	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
Heptachlor	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
Aldrin	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
Endosulfan I	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
Dieldrin	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
4,4´-DDE	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
Endrin	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
Endosulfan II	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
4,4´-DDD	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
Endosulfan sulfate	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
4,4´-DDT	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
Methoxychlor	ND		19	ug/Kg	1	10/03/2015 23:35	83163
Endrin ketone	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
Endrin aldehyde	ND		3.6	ug/Kg	1	10/03/2015 23:35	83163
alpha-Chlordane	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
gamma-Chlordane	ND		1.9	ug/Kg	1	10/03/2015 23:35	83163
Toxaphene	ND		190	ug/Kg	1	10/03/2015 23:35	83163
Surrogate: Tetrachloro-m-xylene	68.1		14-113	%REC	1	10/03/2015 23:35	83163
Surrogate: Decachlorobiphenyl	73.2		55-130	%REC	1	10/03/2015 23:35	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002 **Project:** Barrington, RI site
Lab ID: P1456-18 **Collection Date:** 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/03/2015 23:50	83163
beta-BHC	1.2	J	1.9	ug/Kg	1	10/03/2015 23:50	83163
delta-BHC	ND		1.9	ug/Kg	1	10/03/2015 23:50	83163
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/03/2015 23:50	83163
Heptachlor	ND		1.9	ug/Kg	1	10/03/2015 23:50	83163
Aldrin	ND		1.9	ug/Kg	1	10/03/2015 23:50	83163
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/03/2015 23:50	83163
Endosulfan I	ND		1.9	ug/Kg	1	10/03/2015 23:50	83163
Dieldrin	ND		3.7	ug/Kg	1	10/03/2015 23:50	83163
4,4´-DDE	33		3.7	ug/Kg	1	10/03/2015 23:50	83163
Endrin	4.4		3.7	ug/Kg	1	10/03/2015 23:50	83163
Endosulfan II	ND		3.7	ug/Kg	1	10/03/2015 23:50	83163
4,4´-DDD	ND		3.7	ug/Kg	1	10/03/2015 23:50	83163
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/03/2015 23:50	83163
4,4´-DDT	30		3.7	ug/Kg	1	10/03/2015 23:50	83163
Methoxychlor	ND		19	ug/Kg	1	10/03/2015 23:50	83163
Endrin ketone	ND		3.7	ug/Kg	1	10/03/2015 23:50	83163
Endrin aldehyde	ND		3.7	ug/Kg	1	10/03/2015 23:50	83163
alpha-Chlordane	7.5		1.9	ug/Kg	1	10/03/2015 23:50	83163
gamma-Chlordane	5.7		1.9	ug/Kg	1	10/03/2015 23:50	83163
Toxaphene	ND		190	ug/Kg	1	10/03/2015 23:50	83163
Surrogate: Tetrachloro-m-xylene	67.1		14-113	%REC	1	10/03/2015 23:50	83163
Surrogate: Decachlorobiphenyl	83.5		55-130	%REC	1	10/03/2015 23:50	83163

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **MB-83163** SampType: **MBLK** TestCode: **SW8081_S** Prep Date: **10/01/15 9:33** Run ID: **E6_151003A**
Client ID: **MB-83163** Batch ID: **83163** Units: **ug/Kg** Analysis Date: **10/03/15 18:46** SeqNo: **2312586**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.056	1.7									
beta-BHC	ND	0.063	1.7									
delta-BHC	ND	0.12	1.7									
gamma-BHC (Lindane)	ND	0.055	1.7									
Heptachlor	ND	0.072	1.7									
Aldrin	ND	0.11	1.7									
Heptachlor epoxide	ND	0.16	1.7									
Endosulfan I	ND	0.060	1.7									
Dieldrin	ND	0.16	3.3									
4,4´-DDE	ND	0.25	3.3									
Endrin	ND	0.14	3.3									
Endosulfan II	ND	0.15	3.3									
4,4´-DDD	ND	0.22	3.3									
Endosulfan sulfate	ND	0.13	3.3									
4,4´-DDT	ND	0.33	3.3									
Methoxychlor	ND	0.88	17									
Endrin ketone	ND	0.12	3.3									
Endrin aldehyde	ND	0.23	3.3									
alpha-Chlordane	ND	0.087	1.7									
gamma-Chlordane	ND	0.21	1.7									
Toxaphene	ND	8.8	170									

Sample ID: **MB-83163** SampType: **MBLK** TestCode: **SW8081_S** Prep Date: **10/01/15 9:33** Run ID: **E6_151003B**
Client ID: **MB-83163** Batch ID: **83163** Units: **ug/Kg** Analysis Date: **10/03/15 18:46** SeqNo: **2312631**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	16.01		1.7	20.00	0	80.1	14	113	0			
Surrogate: Decachlorobiphenyl	42.90		3.3	40.00	0	107	55	130	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCS-83163** SampType: **LCS** TestCode: **SW8081_S** Prep Date: **10/01/15 9:33** Run ID: **E6_151003B**
Client ID: **LCS-83163** Batch ID: **83163** Units: **ug/Kg** Analysis Date: **10/03/15 19:01** SeqNo: **2312632**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	6.508	0.056	1.7	6.667	0	97.6	60	125	0			
beta-BHC	6.622	0.063	1.7	6.667	0	99.3	60	125	0			
delta-BHC	6.693	0.12	1.7	6.667	0	100	55	130	0			
gamma-BHC (Lindane)	6.622	0.055	1.7	6.667	0	99.3	60	125	0			
Heptachlor	6.980	0.072	1.7	6.667	0	105	50	140	0			
Aldrin	6.813	0.11	1.7	6.667	0	102	45	140	0			
Heptachlor epoxide	6.879	0.16	1.7	6.667	0	103	65	130	0			
Endosulfan I	6.896	0.060	1.7	6.667	0	103	15	135	0			
Dieldrin	14.40	0.16	3.3	13.33	0	108	65	125	0			
4,4´-DDE	15.06	0.25	3.3	13.33	0	113	70	125	0			
Endrin	14.99	0.14	3.3	13.33	0	112	60	135	0			
Endosulfan II	13.92	0.15	3.3	13.33	0	104	35	140	0			
4,4´-DDD	14.91	0.22	3.3	13.33	0	112	30	135	0			
Endosulfan sulfate	14.38	0.13	3.3	13.33	0	108	60	135	0			
4,4´-DDT	14.58	0.33	3.3	13.33	0	109	45	140	0			
Methoxychlor	73.57	0.88	17	66.67	0	110	55	145	0			
Endrin ketone	14.08	0.12	3.3	13.33	0	106	65	135	0			
Endrin aldehyde	14.40	0.23	3.3	13.33	0	108	35	145	0			
alpha-Chlordane	6.959	0.087	1.7	6.667	0	104	65	120	0			
gamma-Chlordane	6.942	0.21	1.7	6.667	0	104	65	125	0			
Surrogate: Tetrachloro-m-xylene	15.47		1.7	20.00	0	77.4	14	113	0			
Surrogate: Decachlorobiphenyl	37.57		3.3	40.00	0	93.9	55	130	0			

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW8081_S** Prep Date: **10/01/15 9:33** Run ID: **E6_151003A**
Client ID: **NOB-103 0002** Batch ID: **83163** Units: **ug/Kg** Analysis Date: **10/03/15 20:17** SeqNo: **2312592**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	5.830	0.059	1.8	7.037	0	82.9	60	125	0			
gamma-BHC (Lindane)	6.020	0.058	1.8	7.037	0	85.6	60	125	0			
Dieldrin	13.19	0.17	3.5	14.07	0	93.7	65	125	0			
4,4´-DDD	13.00	0.23	3.5	14.07	0	92.4	30	135	0			
Endosulfan sulfate	12.02	0.14	3.5	14.07	0	85.4	60	135	0			
Methoxychlor	71.26	0.93	18	70.36	0	101	55	145	0			
gamma-Chlordane	8.323	0.22	1.8	7.037	2.177	87.3	65	125	0			
Surrogate: Decachlorobiphenyl	33.90		3.5	42.22	0	80.3	55	130	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW8081_S** Prep Date: **10/01/15 9:33** Run ID: **E6_151003B**
Client ID: **NOB-103 0002** Batch ID: **83163** Units: **ug/Kg** Analysis Date: **10/03/15 20:17** SeqNo: **2312637**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
beta-BHC	6.945	0.066	1.8	7.037	1.018	84.2	60	125	0			
delta-BHC	6.223	0.13	1.8	7.037	0	88.4	55	130	0			
Heptachlor	6.576	0.076	1.8	7.037	0	93.5	50	140	0			
Aldrin	6.075	0.12	1.8	7.037	0	86.3	45	140	0			
Heptachlor epoxide	6.270	0.17	1.8	7.037	0	89.1	65	130	0			
Endosulfan I	5.875	0.063	1.8	7.037	0	83.5	15	135	0			
4,4´-DDE	26.25	0.26	3.5	14.07	11.96	101	70	125	0			
Endrin	14.18	0.15	3.5	14.07	0	101	60	135	0			
Endosulfan II	13.09	0.16	3.5	14.07	0	93.0	35	140	0			
4,4´-DDT	24.06	0.35	3.5	14.07	8.913	108	45	140	0			
Endrin ketone	11.76	0.13	3.5	14.07	0	83.6	65	135	0			
Endrin aldehyde	5.451	0.24	3.5	14.07	0	38.7	35	145	0			
alpha-Chlordane	9.100	0.092	1.8	7.037	2.748	90.3	65	120	0			
Surrogate: Tetrachloro-m-xylene	14.40		1.8	21.11	0	68.2	14	113	0			

Sample ID: **P1456-04AMSD** SampType: **MSD** TestCode: **SW8081_S** Prep Date: **10/01/15 9:33** Run ID: **E6_151003A**
Client ID: **NOB-103 0002** Batch ID: **83163** Units: **ug/Kg** Analysis Date: **10/03/15 20:32** SeqNo: **2312593**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	5.620	0.058	1.8	6.921	0	81.2	60	125	5.830	3.68	30	
gamma-BHC (Lindane)	5.685	0.057	1.8	6.921	0	82.1	60	125	6.020	5.73	30	
Dieldrin	12.45	0.17	3.4	13.84	0	90.0	65	125	13.19	5.74	30	
4,4´-DDD	12.44	0.23	3.4	13.84	0	89.9	30	135	13.00	4.39	30	
Endosulfan sulfate	11.42	0.13	3.4	13.84	0	82.5	60	135	12.02	5.07	30	
gamma-Chlordane	7.888	0.22	1.8	6.921	2.177	82.5	65	125	8.323	5.36	30	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **P1456-04AMSD** SampType: **MSD** TestCode: **SW8081_S** Prep Date: **10/01/15 9:33** Run ID: **E6_151003B**
Client ID: **NOB-103 0002** Batch ID: **83163** Units: **ug/Kg** Analysis Date: **10/03/15 20:32** SeqNo: **2312638**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
beta-BHC	5.819	0.065	1.8	6.921	1.018	69.4	60	125	6.945	17.6	30	
delta-BHC	5.632	0.12	1.8	6.921	0	81.4	55	130	6.223	9.97	30	
Heptachlor	5.909	0.075	1.8	6.921	0	85.4	50	140	6.576	10.7	30	
Aldrin	5.780	0.11	1.8	6.921	0	83.5	45	140	6.075	4.99	30	
Heptachlor epoxide	5.889	0.17	1.8	6.921	0	85.1	65	130	6.270	6.26	30	
Endosulfan I	5.557	0.062	1.8	6.921	0	80.3	15	135	5.875	5.57	30	
4,4´-DDE	24.70	0.26	3.4	13.84	11.96	92.0	70	125	26.25	6.06	30	
Endrin	13.29	0.15	3.4	13.84	0	96.0	60	135	14.18	6.42	30	
Endosulfan II	10.81	0.16	3.4	13.84	0	78.1	35	140	13.09	19.1	30	
4,4´-DDT	23.07	0.34	3.4	13.84	8.913	102	45	140	24.06	4.21	30	
Methoxychlor	68.43	0.91	18	69.21	0	98.9	55	145	74.07	7.92	30	
Endrin ketone	11.32	0.12	3.4	13.84	0	81.8	65	135	11.76	3.85	30	
Endrin aldehyde	8.681	0.24	3.4	13.84	0	62.7	35	145	5.451	45.7	30	R
alpha-Chlordane	8.784	0.090	1.8	6.921	2.748	87.2	65	120	9.100	3.53	30	
Surrogate: Tetrachloro-m-xylene	14.07		1.8	20.76	0	67.7	14	113	0			
Surrogate: Decachlorobiphenyl	33.36		3.4	41.53	0	80.3	55	130	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709
Project: Barrington, RI site
Lab ID: P1456-01
Collection Date: 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/05/2015 11:15	83165
Aroclor-1221	ND		37	ug/Kg	1	10/05/2015 11:15	83165
Aroclor-1232	ND		37	ug/Kg	1	10/05/2015 11:15	83165
Aroclor-1242	ND		37	ug/Kg	1	10/05/2015 11:15	83165
Aroclor-1248	ND		37	ug/Kg	1	10/05/2015 11:15	83165
Aroclor-1254	ND		37	ug/Kg	1	10/05/2015 11:15	83165
Aroclor-1260	ND		37	ug/Kg	1	10/05/2015 11:15	83165
Surrogate: Tetrachloro-m-xylene	85.5		34-147	%REC	1	10/05/2015 11:15	83165
Surrogate: Decachlorobiphenyl	89.9		60-125	%REC	1	10/05/2015 11:15	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002
Lab ID: P1456-02
Project: Barrington, RI site
Collection Date: 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		44	ug/Kg	1	10/05/2015 11:29	83165
Aroclor-1221	ND		44	ug/Kg	1	10/05/2015 11:29	83165
Aroclor-1232	ND		44	ug/Kg	1	10/05/2015 11:29	83165
Aroclor-1242	ND		44	ug/Kg	1	10/05/2015 11:29	83165
Aroclor-1248	ND		44	ug/Kg	1	10/05/2015 11:29	83165
Aroclor-1254	ND		44	ug/Kg	1	10/05/2015 11:29	83165
Aroclor-1260	ND		44	ug/Kg	1	10/05/2015 11:29	83165
Surrogate: Tetrachloro-m-xylene	84.9		34-147	%REC	1	10/05/2015 11:29	83165
Surrogate: Decachlorobiphenyl	88.5		60-125	%REC	1	10/05/2015 11:29	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709
Lab ID: P1456-03
Project: Barrington, RI site
Collection Date: 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		34	ug/Kg	1	10/05/2015 11:44	83165
Aroclor-1221	ND		34	ug/Kg	1	10/05/2015 11:44	83165
Aroclor-1232	ND		34	ug/Kg	1	10/05/2015 11:44	83165
Aroclor-1242	ND		34	ug/Kg	1	10/05/2015 11:44	83165
Aroclor-1248	ND		34	ug/Kg	1	10/05/2015 11:44	83165
Aroclor-1254	ND		34	ug/Kg	1	10/05/2015 11:44	83165
Aroclor-1260	ND		34	ug/Kg	1	10/05/2015 11:44	83165
Surrogate: Tetrachloro-m-xylene	81.0		34-147	%REC	1	10/05/2015 11:44	83165
Surrogate: Decachlorobiphenyl	85.8		60-125	%REC	1	10/05/2015 11:44	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002
Project: Barrington, RI site
Lab ID: P1456-04
Collection Date: 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/05/2015 11:58	83165
Aroclor-1221	ND		35	ug/Kg	1	10/05/2015 11:58	83165
Aroclor-1232	ND		35	ug/Kg	1	10/05/2015 11:58	83165
Aroclor-1242	ND		35	ug/Kg	1	10/05/2015 11:58	83165
Aroclor-1248	ND		35	ug/Kg	1	10/05/2015 11:58	83165
Aroclor-1254	ND		35	ug/Kg	1	10/05/2015 11:58	83165
Aroclor-1260	ND		35	ug/Kg	1	10/05/2015 11:58	83165
Surrogate: Tetrachloro-m-xylene	103		34-147	%REC	1	10/05/2015 11:58	83165
Surrogate: Decachlorobiphenyl	106		60-125	%REC	1	10/05/2015 11:58	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315
Project: Barrington, RI site
Lab ID: P1456-05
Collection Date: 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		43	ug/Kg	1	10/05/2015 12:42	83165
Aroclor-1221	ND		43	ug/Kg	1	10/05/2015 12:42	83165
Aroclor-1232	ND		43	ug/Kg	1	10/05/2015 12:42	83165
Aroclor-1242	ND		43	ug/Kg	1	10/05/2015 12:42	83165
Aroclor-1248	ND		43	ug/Kg	1	10/05/2015 12:42	83165
Aroclor-1254	ND		43	ug/Kg	1	10/05/2015 12:42	83165
Aroclor-1260	ND		43	ug/Kg	1	10/05/2015 12:42	83165
Surrogate: Tetrachloro-m-xylene	81.0		34-147	%REC	1	10/05/2015 12:42	83165
Surrogate: Decachlorobiphenyl	85.0		60-125	%REC	1	10/05/2015 12:42	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002
Lab ID: P1456-06
Project: Barrington, RI site
Collection Date: 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		41	ug/Kg	1	10/05/2015 12:56	83165
Aroclor-1221	ND		41	ug/Kg	1	10/05/2015 12:56	83165
Aroclor-1232	ND		41	ug/Kg	1	10/05/2015 12:56	83165
Aroclor-1242	ND		41	ug/Kg	1	10/05/2015 12:56	83165
Aroclor-1248	ND		41	ug/Kg	1	10/05/2015 12:56	83165
Aroclor-1254	ND		41	ug/Kg	1	10/05/2015 12:56	83165
Aroclor-1260	ND		41	ug/Kg	1	10/05/2015 12:56	83165
Surrogate: Tetrachloro-m-xylene	82.9		34-147	%REC	1	10/05/2015 12:56	83165
Surrogate: Decachlorobiphenyl	85.4		60-125	%REC	1	10/05/2015 12:56	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709
Project: Barrington, RI site
Lab ID: P1456-07
Collection Date: 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/05/2015 13:10	83165
Aroclor-1221	ND		35	ug/Kg	1	10/05/2015 13:10	83165
Aroclor-1232	ND		35	ug/Kg	1	10/05/2015 13:10	83165
Aroclor-1242	ND		35	ug/Kg	1	10/05/2015 13:10	83165
Aroclor-1248	ND		35	ug/Kg	1	10/05/2015 13:10	83165
Aroclor-1254	ND		35	ug/Kg	1	10/05/2015 13:10	83165
Aroclor-1260	ND		35	ug/Kg	1	10/05/2015 13:10	83165
Surrogate: Tetrachloro-m-xylene	81.4		34-147	%REC	1	10/05/2015 13:10	83165
Surrogate: Decachlorobiphenyl	85.5		60-125	%REC	1	10/05/2015 13:10	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002
Lab ID: P1456-09
Project: Barrington, RI site
Collection Date: 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/05/2015 13:25	83165
Aroclor-1221	ND		37	ug/Kg	1	10/05/2015 13:25	83165
Aroclor-1232	ND		37	ug/Kg	1	10/05/2015 13:25	83165
Aroclor-1242	ND		37	ug/Kg	1	10/05/2015 13:25	83165
Aroclor-1248	ND		37	ug/Kg	1	10/05/2015 13:25	83165
Aroclor-1254	ND		37	ug/Kg	1	10/05/2015 13:25	83165
Aroclor-1260	ND		37	ug/Kg	1	10/05/2015 13:25	83165
Surrogate: Tetrachloro-m-xylene	74.3		34-147	%REC	1	10/05/2015 13:25	83165
Surrogate: Decachlorobiphenyl	77.2		60-125	%REC	1	10/05/2015 13:25	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214
Project: Barrington, RI site
Lab ID: P1456-10
Collection Date: 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/05/2015 13:39	83165
Aroclor-1221	ND		35	ug/Kg	1	10/05/2015 13:39	83165
Aroclor-1232	ND		35	ug/Kg	1	10/05/2015 13:39	83165
Aroclor-1242	ND		35	ug/Kg	1	10/05/2015 13:39	83165
Aroclor-1248	ND		35	ug/Kg	1	10/05/2015 13:39	83165
Aroclor-1254	ND		35	ug/Kg	1	10/05/2015 13:39	83165
Aroclor-1260	ND		35	ug/Kg	1	10/05/2015 13:39	83165
Surrogate: Tetrachloro-m-xylene	84.5		34-147	%REC	1	10/05/2015 13:39	83165
Surrogate: Decachlorobiphenyl	88.1		60-125	%REC	1	10/05/2015 13:39	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002
Project: Barrington, RI site
Lab ID: P1456-11
Collection Date: 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/05/2015 13:54	83165
Aroclor-1221	ND		37	ug/Kg	1	10/05/2015 13:54	83165
Aroclor-1232	ND		37	ug/Kg	1	10/05/2015 13:54	83165
Aroclor-1242	ND		37	ug/Kg	1	10/05/2015 13:54	83165
Aroclor-1248	ND		37	ug/Kg	1	10/05/2015 13:54	83165
Aroclor-1254	ND		37	ug/Kg	1	10/05/2015 13:54	83165
Aroclor-1260	ND		37	ug/Kg	1	10/05/2015 13:54	83165
Surrogate: Tetrachloro-m-xylene	83.4		34-147	%REC	1	10/05/2015 13:54	83165
Surrogate: Decachlorobiphenyl	86.6		60-125	%REC	1	10/05/2015 13:54	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214
Project: Barrington, RI site
Lab ID: P1456-12
Collection Date: 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		40	ug/Kg	1	10/05/2015 14:08	83165
Aroclor-1221	ND		40	ug/Kg	1	10/05/2015 14:08	83165
Aroclor-1232	ND		40	ug/Kg	1	10/05/2015 14:08	83165
Aroclor-1242	ND		40	ug/Kg	1	10/05/2015 14:08	83165
Aroclor-1248	ND		40	ug/Kg	1	10/05/2015 14:08	83165
Aroclor-1254	ND		40	ug/Kg	1	10/05/2015 14:08	83165
Aroclor-1260	ND		40	ug/Kg	1	10/05/2015 14:08	83165
Surrogate: Tetrachloro-m-xylene	85.1		34-147	%REC	1	10/05/2015 14:08	83165
Surrogate: Decachlorobiphenyl	88.6		60-125	%REC	1	10/05/2015 14:08	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002
Lab ID: P1456-13
Project: Barrington, RI site
Collection Date: 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		36	ug/Kg	1	10/05/2015 14:22	83165
Aroclor-1221	ND		36	ug/Kg	1	10/05/2015 14:22	83165
Aroclor-1232	ND		36	ug/Kg	1	10/05/2015 14:22	83165
Aroclor-1242	ND		36	ug/Kg	1	10/05/2015 14:22	83165
Aroclor-1248	ND		36	ug/Kg	1	10/05/2015 14:22	83165
Aroclor-1254	ND		36	ug/Kg	1	10/05/2015 14:22	83165
Aroclor-1260	ND		36	ug/Kg	1	10/05/2015 14:22	83165
Surrogate: Tetrachloro-m-xylene	79.3		34-147	%REC	1	10/05/2015 14:22	83165
Surrogate: Decachlorobiphenyl	83.2		60-125	%REC	1	10/05/2015 14:22	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214
Project: Barrington, RI site
Lab ID: P1456-14
Collection Date: 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		39	ug/Kg	1	10/05/2015 14:36	83165
Aroclor-1221	ND		39	ug/Kg	1	10/05/2015 14:36	83165
Aroclor-1232	ND		39	ug/Kg	1	10/05/2015 14:36	83165
Aroclor-1242	ND		39	ug/Kg	1	10/05/2015 14:36	83165
Aroclor-1248	ND		39	ug/Kg	1	10/05/2015 14:36	83165
Aroclor-1254	ND		39	ug/Kg	1	10/05/2015 14:36	83165
Aroclor-1260	ND		39	ug/Kg	1	10/05/2015 14:36	83165
Surrogate: Tetrachloro-m-xylene	87.5		34-147	%REC	1	10/05/2015 14:36	83165
Surrogate: Decachlorobiphenyl	91.1		60-125	%REC	1	10/05/2015 14:36	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03
Lab ID: P1456-15
Project: Barrington, RI site
Collection Date: 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/05/2015 14:51	83165
Aroclor-1221	ND		35	ug/Kg	1	10/05/2015 14:51	83165
Aroclor-1232	ND		35	ug/Kg	1	10/05/2015 14:51	83165
Aroclor-1242	ND		35	ug/Kg	1	10/05/2015 14:51	83165
Aroclor-1248	ND		35	ug/Kg	1	10/05/2015 14:51	83165
Aroclor-1254	ND		35	ug/Kg	1	10/05/2015 14:51	83165
Aroclor-1260	ND		35	ug/Kg	1	10/05/2015 14:51	83165
Surrogate: Tetrachloro-m-xylene	86.0		34-147	%REC	1	10/05/2015 14:51	83165
Surrogate: Decachlorobiphenyl	90.5		60-125	%REC	1	10/05/2015 14:51	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002
Project: Barrington, RI site
Lab ID: P1456-16
Collection Date: 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/05/2015 15:05	83165
Aroclor-1221	ND		35	ug/Kg	1	10/05/2015 15:05	83165
Aroclor-1232	ND		35	ug/Kg	1	10/05/2015 15:05	83165
Aroclor-1242	ND		35	ug/Kg	1	10/05/2015 15:05	83165
Aroclor-1248	ND		35	ug/Kg	1	10/05/2015 15:05	83165
Aroclor-1254	ND		35	ug/Kg	1	10/05/2015 15:05	83165
Aroclor-1260	ND		35	ug/Kg	1	10/05/2015 15:05	83165
Surrogate: Tetrachloro-m-xylene	79.6		34-147	%REC	1	10/05/2015 15:05	83165
Surrogate: Decachlorobiphenyl	82.8		60-125	%REC	1	10/05/2015 15:05	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416
Project: Barrington, RI site
Lab ID: P1456-17
Collection Date: 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		36	ug/Kg	1	10/05/2015 15:20	83165
Aroclor-1221	ND		36	ug/Kg	1	10/05/2015 15:20	83165
Aroclor-1232	ND		36	ug/Kg	1	10/05/2015 15:20	83165
Aroclor-1242	ND		36	ug/Kg	1	10/05/2015 15:20	83165
Aroclor-1248	ND		36	ug/Kg	1	10/05/2015 15:20	83165
Aroclor-1254	ND		36	ug/Kg	1	10/05/2015 15:20	83165
Aroclor-1260	ND		36	ug/Kg	1	10/05/2015 15:20	83165
Surrogate: Tetrachloro-m-xylene	82.4		34-147	%REC	1	10/05/2015 15:20	83165
Surrogate: Decachlorobiphenyl	85.4		60-125	%REC	1	10/05/2015 15:20	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002
Lab ID: P1456-18
Project: Barrington, RI site
Collection Date: 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/05/2015 15:34	83165
Aroclor-1221	ND		37	ug/Kg	1	10/05/2015 15:34	83165
Aroclor-1232	ND		37	ug/Kg	1	10/05/2015 15:34	83165
Aroclor-1242	ND		37	ug/Kg	1	10/05/2015 15:34	83165
Aroclor-1248	ND		37	ug/Kg	1	10/05/2015 15:34	83165
Aroclor-1254	ND		37	ug/Kg	1	10/05/2015 15:34	83165
Aroclor-1260	ND		37	ug/Kg	1	10/05/2015 15:34	83165
Surrogate: Tetrachloro-m-xylene	84.2		34-147	%REC	1	10/05/2015 15:34	83165
Surrogate: Decachlorobiphenyl	87.9		60-125	%REC	1	10/05/2015 15:34	83165

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_S

SW846 8082A -- PCB by GC-ECD

Sample ID: **MB-83165** SampType: **MBLK** TestCode: **SW8082_S** Prep Date: **10/01/15 9:39** Run ID: **E2_151005A**
Client ID: **MB-83165** Batch ID: **83165** Units: **ug/Kg** Analysis Date: **10/05/15 10:46** SeqNo: **2313016**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	2.5	33									
Aroclor-1221	ND	4.4	33									
Aroclor-1232	ND	2.4	33									
Aroclor-1242	ND	2.5	33									
Aroclor-1248	ND	3.8	33									
Aroclor-1254	ND	4.4	33									
Aroclor-1260	ND	1.8	33									

Sample ID: **MB-83165** SampType: **MBLK** TestCode: **SW8082_S** Prep Date: **10/01/15 9:39** Run ID: **E2_151005B**
Client ID: **MB-83165** Batch ID: **83165** Units: **ug/Kg** Analysis Date: **10/05/15 10:46** SeqNo: **2313076**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	18.39		1.7	20.00	0	92.0	34	147	0			
Surrogate: Decachlorobiphenyl	37.18		3.3	40.00	0	93.0	60	125	0			

Sample ID: **LCS-83165** SampType: **LCS** TestCode: **SW8082_S** Prep Date: **10/01/15 9:39** Run ID: **E2_151005B**
Client ID: **LCS-83165** Batch ID: **83165** Units: **ug/Kg** Analysis Date: **10/05/15 11:01** SeqNo: **2313077**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	119.7	2.5	33	133.3	0	89.8	40	140	0			
Aroclor-1260	123.0	1.8	33	133.3	0	92.3	60	130	0			
Surrogate: Tetrachloro-m-xylene	18.03		1.7	20.00	0	90.2	34	147	0			
Surrogate: Decachlorobiphenyl	37.60		3.3	40.00	0	94.0	60	125	0			

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW8082_S** Prep Date: **10/01/15 9:39** Run ID: **E2_151005A**
Client ID: **NOB-103 0002** Batch ID: **83165** Units: **ug/Kg** Analysis Date: **10/05/15 12:13** SeqNo: **2313026**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1260	141.9	1.9	35	140.7	0	101	60	130	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_S

SW846 8082A -- PCB by GC-ECD

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW8082_S** Prep Date: **10/01/15 9:39** Run ID: **E2_151005B**
Client ID: **NOB-103 0002** Batch ID: **83165** Units: **ug/Kg** Analysis Date: **10/05/15 12:13** SeqNo: **2313082**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	115.3	2.6	35	140.7	0	82.0	40	140	0			
Surrogate: Tetrachloro-m-xylene	17.05		1.8	21.11	0	80.8	34	147	0			
Surrogate: Decachlorobiphenyl	36.39		3.5	42.22	0	86.2	60	125	0			

Sample ID: **P1456-04AMSD** SampType: **MSD** TestCode: **SW8082_S** Prep Date: **10/01/15 9:39** Run ID: **E2_151005A**
Client ID: **NOB-103 0002** Batch ID: **83165** Units: **ug/Kg** Analysis Date: **10/05/15 12:27** SeqNo: **2313029**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1260	142.4	1.9	35	140.7	0	101	60	130	141.9	0.39	30	

Sample ID: **P1456-04AMSD** SampType: **MSD** TestCode: **SW8082_S** Prep Date: **10/01/15 9:39** Run ID: **E2_151005B**
Client ID: **NOB-103 0002** Batch ID: **83165** Units: **ug/Kg** Analysis Date: **10/05/15 12:27** SeqNo: **2313083**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	116.6	2.6	35	140.7	0	82.9	40	140	115.3	1.13	30	
Surrogate: Tetrachloro-m-xylene	17.45		1.8	21.11	0	82.7	34	147	0			
Surrogate: Decachlorobiphenyl	36.92		3.5	42.22	0	87.5	60	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709
Lab ID: P1456-01
Project: Barrington, RI site
Collection Date: 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	20		7.9	mg/Kg	1	10/05/2015 13:43	83166
Surrogate: ortho-Terphenyl	73.0		50-150	%REC	1	10/05/2015 13:43	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002
Project: Barrington, RI site
Lab ID: P1456-02
Collection Date: 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	22		9.4	mg/Kg	1	10/05/2015 14:00	83166
Surrogate: ortho-Terphenyl	72.8		50-150	%REC	1	10/05/2015 14:00	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709
Project: Barrington, RI site
Lab ID: P1456-03
Collection Date: 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	11		7.2	mg/Kg	1	10/05/2015 14:15	83166
Surrogate: ortho-Terphenyl	66.1		50-150	%REC	1	10/05/2015 14:15	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002
Lab ID: P1456-04
Project: Barrington, RI site
Collection Date: 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	13		7.3	mg/Kg	1	10/05/2015 14:45	83166
Surrogate: ortho-Terphenyl	73.3		50-150	%REC	1	10/05/2015 14:45	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315
Project: Barrington, RI site
Lab ID: P1456-05
Collection Date: 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	13		9.0	mg/Kg	1	10/05/2015 15:44	83166
Surrogate: ortho-Terphenyl	83.8		50-150	%REC	1	10/05/2015 15:44	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002
Lab ID: P1456-06
Project: Barrington, RI site
Collection Date: 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	20		8.8	mg/Kg	1	10/05/2015 16:14	83166
Surrogate: ortho-Terphenyl	87.8		50-150	%REC	1	10/05/2015 16:14	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709
Project: Barrington, RI site
Lab ID: P1456-07
Collection Date: 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	12		7.5	mg/Kg	1	10/05/2015 16:35	83166
Surrogate: ortho-Terphenyl	75.5		50-150	%REC	1	10/05/2015 16:35	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002
Project: Barrington, RI site
Lab ID: P1456-09
Collection Date: 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	35		7.8	mg/Kg	1	10/05/2015 16:57	83166
Surrogate: ortho-Terphenyl	86.2		50-150	%REC	1	10/05/2015 16:57	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214
Project: Barrington, RI site
Lab ID: P1456-10
Collection Date: 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	15		7.5	mg/Kg	1	10/05/2015 17:12	83166
Surrogate: ortho-Terphenyl	76.0		50-150	%REC	1	10/05/2015 17:12	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002
Project: Barrington, RI site
Lab ID: P1456-11
Collection Date: 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	19		7.9	mg/Kg	1	10/05/2015 17:35	83166
Surrogate: ortho-Terphenyl	71.7		50-150	%REC	1	10/05/2015 17:35	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214
Project: Barrington, RI site
Lab ID: P1456-12
Collection Date: 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	14		8.5	mg/Kg	1	10/05/2015 17:57	83166
Surrogate: ortho-Terphenyl	74.5		50-150	%REC	1	10/05/2015 17:57	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002
Lab ID: P1456-13
Project: Barrington, RI site
Collection Date: 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	17		7.6	mg/Kg	1	10/05/2015 18:19	83166
Surrogate: ortho-Terphenyl	81.7		50-150	%REC	1	10/05/2015 18:19	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214
Lab ID: P1456-14
Project: Barrington, RI site
Collection Date: 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	21		8.2	mg/Kg	1	10/05/2015 18:41	83166
Surrogate: ortho-Terphenyl	77.8		50-150	%REC	1	10/05/2015 18:41	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03
Lab ID: P1456-15
Project: Barrington, RI site
Collection Date: 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	25		7.5	mg/Kg	1	10/05/2015 19:03	83166
Surrogate: ortho-Terphenyl	84.2		50-150	%REC	1	10/05/2015 19:03	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002
Project: Barrington, RI site
Lab ID: P1456-16
Collection Date: 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	27		7.5	mg/Kg	1	10/05/2015 19:10	83166
Surrogate: ortho-Terphenyl	83.4		50-150	%REC	1	10/05/2015 19:10	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416
Project: Barrington, RI site
Lab ID: P1456-17
Collection Date: 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	12		7.7	mg/Kg	1	10/05/2015 20:16	83166
Surrogate: ortho-Terphenyl	77.7		50-150	%REC	1	10/05/2015 20:16	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002
Lab ID: P1456-18
Project: Barrington, RI site
Collection Date: 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	24		7.8	mg/Kg	1	10/05/2015 20:46	83166
Surrogate: ortho-Terphenyl	80.1		50-150	%REC	1	10/05/2015 20:46	83166

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

TPH_S

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID: **MB-83166** SampType: **MBLK** TestCode: **TPH_S** Prep Date: **10/01/15 9:43** Run ID: **F1_151005A**
Client ID: **MB-83166** Batch ID: **83166** Units: **mg/Kg** Analysis Date: **10/05/15 13:00** SeqNo: **2313108**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	ND	1.3	7.0									
Surrogate: ortho-Terphenyl	3.016		0.83	3.333	0	90.5	50	150	0			

Sample ID: **LCS-83166** SampType: **LCS** TestCode: **TPH_S** Prep Date: **10/01/15 9:43** Run ID: **F1_151005A**
Client ID: **LCS-83166** Batch ID: **83166** Units: **mg/Kg** Analysis Date: **10/05/15 13:15** SeqNo: **2313109**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	205.4	1.3	7.0	166.7	0	123	60	140	0			
Surrogate: ortho-Terphenyl	4.052		0.83	3.333	0	122	50	150	0			

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **TPH_S** Prep Date: **10/01/15 9:43** Run ID: **F1_151005A**
Client ID: **NOB-103 0002** Batch ID: **83166** Units: **mg/Kg** Analysis Date: **10/05/15 15:06** SeqNo: **2313114**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	181.5	1.4	7.4	175.9	12.60	96.0	50	150	0			
Surrogate: ortho-Terphenyl	3.979		0.88	3.518	0	113	50	150	0			

Sample ID: **P1456-04AMSD** SampType: **MSD** TestCode: **TPH_S** Prep Date: **10/01/15 9:43** Run ID: **F1_151005A**
Client ID: **NOB-103 0002** Batch ID: **83166** Units: **mg/Kg** Analysis Date: **10/05/15 15:29** SeqNo: **2313115**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	201.0	1.4	7.4	175.9	12.60	107	50	150	181.5	10.2	30	
Surrogate: ortho-Terphenyl	3.933		0.88	3.518	0	112	50	150	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709 **Project:** Barrington, RI site
Lab ID: P1456-01 **Collection Date:** 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.4		1.0	mg/Kg	1	10/04/2015 13:57	83184
Arsenic	11		1.0	mg/Kg	1	10/04/2015 13:57	83184
Barium	21	B	10	mg/Kg	1	10/04/2015 13:57	83184
Beryllium	0.22	BJ	0.26	mg/Kg	1	10/04/2015 13:57	83184
Cadmium	ND		0.26	mg/Kg	1	10/04/2015 13:57	83184
Chromium	11	B	1.0	mg/Kg	1	10/04/2015 13:57	83184
Copper	14		1.6	mg/Kg	1	10/04/2015 13:57	83184
Lead	18		0.52	mg/Kg	1	10/04/2015 13:57	83184
Manganese	170		2.6	mg/Kg	1	10/04/2015 13:57	83184
Nickel	14	B	2.6	mg/Kg	1	10/04/2015 13:57	83184
Selenium	ND		1.6	mg/Kg	1	10/04/2015 13:57	83184
Silver	ND		1.6	mg/Kg	1	10/04/2015 13:57	83184
Thallium	0.98	J	1.0	mg/Kg	1	10/04/2015 13:57	83184
Vanadium	8.4		2.6	mg/Kg	1	10/04/2015 13:57	83184
Zinc	31		2.6	mg/Kg	1	10/04/2015 13:57	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0030	J	0.042	mg/Kg	1	10/05/2015 20:06	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002
Lab ID: P1456-02
Project: Barrington, RI site
Collection Date: 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.68	J	0.94	mg/Kg	1	10/04/2015 14:01	83184
Arsenic	5.5		0.94	mg/Kg	1	10/04/2015 14:01	83184
Barium	12	B	9.4	mg/Kg	1	10/04/2015 14:01	83184
Beryllium	0.40	B	0.23	mg/Kg	1	10/04/2015 14:01	83184
Cadmium	ND		0.23	mg/Kg	1	10/04/2015 14:01	83184
Chromium	5.4	B	0.94	mg/Kg	1	10/04/2015 14:01	83184
Copper	5.1		1.4	mg/Kg	1	10/04/2015 14:01	83184
Lead	11		0.47	mg/Kg	1	10/04/2015 14:01	83184
Manganese	98		2.3	mg/Kg	1	10/04/2015 14:01	83184
Nickel	4.5	B	2.3	mg/Kg	1	10/04/2015 14:01	83184
Selenium	ND		1.4	mg/Kg	1	10/04/2015 14:01	83184
Silver	ND		1.4	mg/Kg	1	10/04/2015 14:01	83184
Thallium	1.4		0.94	mg/Kg	1	10/04/2015 14:01	83184
Vanadium	12		2.3	mg/Kg	1	10/04/2015 14:01	83184
Zinc	16		2.3	mg/Kg	1	10/04/2015 14:01	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.023	J	0.047	mg/Kg	1	10/05/2015 20:07	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709 **Project:** Barrington, RI site
Lab ID: P1456-03 **Collection Date:** 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.59	J	0.91	mg/Kg	1	10/04/2015 14:05	83184
Arsenic	3.7		0.91	mg/Kg	1	10/04/2015 14:05	83184
Barium	10	B	9.1	mg/Kg	1	10/04/2015 14:05	83184
Beryllium	0.26	B	0.23	mg/Kg	1	10/04/2015 14:05	83184
Cadmium	ND		0.23	mg/Kg	1	10/04/2015 14:05	83184
Chromium	3.3	B	0.91	mg/Kg	1	10/04/2015 14:05	83184
Copper	5.2		1.4	mg/Kg	1	10/04/2015 14:05	83184
Lead	4.0		0.45	mg/Kg	1	10/04/2015 14:05	83184
Manganese	120		2.3	mg/Kg	1	10/04/2015 14:05	83184
Nickel	4.6	B	2.3	mg/Kg	1	10/04/2015 14:05	83184
Selenium	ND		1.4	mg/Kg	1	10/04/2015 14:05	83184
Silver	ND		1.4	mg/Kg	1	10/04/2015 14:05	83184
Thallium	0.52	J	0.91	mg/Kg	1	10/04/2015 14:05	83184
Vanadium	4.6		2.3	mg/Kg	1	10/04/2015 14:05	83184
Zinc	14		2.3	mg/Kg	1	10/04/2015 14:05	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.039	mg/Kg	1	10/05/2015 20:09	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002
Lab ID: P1456-04
Project: Barrington, RI site
Collection Date: 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.78	J	1.0	mg/Kg	1	10/04/2015 14:09	83184
Arsenic	4.9		1.0	mg/Kg	1	10/04/2015 14:09	83184
Barium	11	B	10	mg/Kg	1	10/04/2015 14:09	83184
Beryllium	0.35	B	0.26	mg/Kg	1	10/04/2015 14:09	83184
Cadmium	ND		0.26	mg/Kg	1	10/04/2015 14:09	83184
Chromium	5.1	B	1.0	mg/Kg	1	10/04/2015 14:09	83184
Copper	6.9		1.6	mg/Kg	1	10/04/2015 14:09	83184
Lead	7.8		0.52	mg/Kg	1	10/04/2015 14:09	83184
Manganese	190		2.6	mg/Kg	1	10/04/2015 14:09	83184
Nickel	6.5	B	2.6	mg/Kg	1	10/04/2015 14:09	83184
Selenium	ND		1.6	mg/Kg	1	10/04/2015 14:09	83184
Silver	ND		1.6	mg/Kg	1	10/04/2015 14:09	83184
Thallium	0.96	J	1.0	mg/Kg	1	10/04/2015 14:09	83184
Vanadium	8.2		2.6	mg/Kg	1	10/04/2015 14:09	83184
Zinc	18		2.6	mg/Kg	1	10/04/2015 14:09	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.013	J	0.038	mg/Kg	1	10/05/2015 20:11	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315 **Project:** Barrington, RI site
Lab ID: P1456-05 **Collection Date:** 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.7		1.1	mg/Kg	1	10/04/2015 14:34	83184
Arsenic	8.7		1.1	mg/Kg	1	10/04/2015 14:34	83184
Barium	44	B	11	mg/Kg	1	10/04/2015 14:34	83184
Beryllium	0.71	B	0.27	mg/Kg	1	10/04/2015 14:34	83184
Cadmium	ND		0.27	mg/Kg	1	10/04/2015 14:34	83184
Chromium	12	B	1.1	mg/Kg	1	10/04/2015 14:34	83184
Copper	14		1.6	mg/Kg	1	10/04/2015 14:34	83184
Lead	9.8		0.54	mg/Kg	1	10/04/2015 14:34	83184
Manganese	330		2.7	mg/Kg	1	10/04/2015 14:34	83184
Nickel	12	B	2.7	mg/Kg	1	10/04/2015 14:34	83184
Selenium	0.70	J	1.6	mg/Kg	1	10/04/2015 14:34	83184
Silver	ND		1.6	mg/Kg	1	10/04/2015 14:34	83184
Thallium	1.9		1.1	mg/Kg	1	10/04/2015 14:34	83184
Vanadium	18		2.7	mg/Kg	1	10/04/2015 14:34	83184
Zinc	35		2.7	mg/Kg	1	10/04/2015 14:34	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0034	J	0.047	mg/Kg	1	10/05/2015 20:16	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002
Lab ID: P1456-06
Project: Barrington, RI site
Collection Date: 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.77	J	0.84	mg/Kg	1	10/04/2015 14:38	83184
Arsenic	8.2		0.84	mg/Kg	1	10/04/2015 14:38	83184
Barium	15	B	8.4	mg/Kg	1	10/04/2015 14:38	83184
Beryllium	0.40	B	0.21	mg/Kg	1	10/04/2015 14:38	83184
Cadmium	0.023	J	0.21	mg/Kg	1	10/04/2015 14:38	83184
Chromium	5.9	B	0.84	mg/Kg	1	10/04/2015 14:38	83184
Copper	9.3		1.3	mg/Kg	1	10/04/2015 14:38	83184
Lead	13		0.42	mg/Kg	1	10/04/2015 14:38	83184
Manganese	280		2.1	mg/Kg	1	10/04/2015 14:38	83184
Nickel	7.4	B	2.1	mg/Kg	1	10/04/2015 14:38	83184
Selenium	ND		1.3	mg/Kg	1	10/04/2015 14:38	83184
Silver	ND		1.3	mg/Kg	1	10/04/2015 14:38	83184
Thallium	1.1		0.84	mg/Kg	1	10/04/2015 14:38	83184
Vanadium	11		2.1	mg/Kg	1	10/04/2015 14:38	83184
Zinc	23		2.1	mg/Kg	1	10/04/2015 14:38	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.020	J	0.042	mg/Kg	1	10/05/2015 20:17	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709
Lab ID: P1456-07
Project: Barrington, RI site
Collection Date: 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.1		0.93	mg/Kg	1	10/04/2015 14:42	83184
Arsenic	6.6		0.93	mg/Kg	1	10/04/2015 14:42	83184
Barium	20	B	9.3	mg/Kg	1	10/04/2015 14:42	83184
Beryllium	0.38	B	0.23	mg/Kg	1	10/04/2015 14:42	83184
Cadmium	ND		0.23	mg/Kg	1	10/04/2015 14:42	83184
Chromium	6.0	B	0.93	mg/Kg	1	10/04/2015 14:42	83184
Copper	12		1.4	mg/Kg	1	10/04/2015 14:42	83184
Lead	6.9		0.47	mg/Kg	1	10/04/2015 14:42	83184
Manganese	210		2.3	mg/Kg	1	10/04/2015 14:42	83184
Nickel	8.3	B	2.3	mg/Kg	1	10/04/2015 14:42	83184
Selenium	ND		1.4	mg/Kg	1	10/04/2015 14:42	83184
Silver	ND		1.4	mg/Kg	1	10/04/2015 14:42	83184
Thallium	1.1		0.93	mg/Kg	1	10/04/2015 14:42	83184
Vanadium	8.0		2.3	mg/Kg	1	10/04/2015 14:42	83184
Zinc	25		2.3	mg/Kg	1	10/04/2015 14:42	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.041	mg/Kg	1	10/05/2015 20:22	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002
Lab ID: P1456-09
Project: Barrington, RI site
Collection Date: 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.83	J	1.1	mg/Kg	1	10/04/2015 14:46	83184
Arsenic	11		1.1	mg/Kg	1	10/04/2015 14:46	83184
Barium	20	B	11	mg/Kg	1	10/04/2015 14:46	83184
Beryllium	0.47	B	0.27	mg/Kg	1	10/04/2015 14:46	83184
Cadmium	0.036	J	0.27	mg/Kg	1	10/04/2015 14:46	83184
Chromium	6.4	B	1.1	mg/Kg	1	10/04/2015 14:46	83184
Copper	9.0		1.6	mg/Kg	1	10/04/2015 14:46	83184
Lead	35		0.55	mg/Kg	1	10/04/2015 14:46	83184
Manganese	120		2.7	mg/Kg	1	10/04/2015 14:46	83184
Nickel	5.2	B	2.7	mg/Kg	1	10/04/2015 14:46	83184
Selenium	ND		1.6	mg/Kg	1	10/04/2015 14:46	83184
Silver	ND		1.6	mg/Kg	1	10/04/2015 14:46	83184
Thallium	1.4		1.1	mg/Kg	1	10/04/2015 14:46	83184
Vanadium	13		2.7	mg/Kg	1	10/04/2015 14:46	83184
Zinc	24		2.7	mg/Kg	1	10/04/2015 14:46	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.12		0.043	mg/Kg	1	10/05/2015 20:24	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214
Lab ID: P1456-10
Project: Barrington, RI site
Collection Date: 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	2.2		0.98	mg/Kg	1	10/04/2015 14:49	83184
Arsenic	13		0.98	mg/Kg	1	10/04/2015 14:49	83184
Barium	20	B	9.8	mg/Kg	1	10/04/2015 14:49	83184
Beryllium	0.32	B	0.25	mg/Kg	1	10/04/2015 14:49	83184
Cadmium	0.14	J	0.25	mg/Kg	1	10/04/2015 14:49	83184
Chromium	13	B	0.98	mg/Kg	1	10/04/2015 14:49	83184
Copper	30		1.5	mg/Kg	1	10/04/2015 14:49	83184
Lead	15		0.49	mg/Kg	1	10/04/2015 14:49	83184
Manganese	450		2.5	mg/Kg	1	10/04/2015 14:49	83184
Nickel	35	B	2.5	mg/Kg	1	10/04/2015 14:49	83184
Selenium	ND		1.5	mg/Kg	1	10/04/2015 14:49	83184
Silver	ND		1.5	mg/Kg	1	10/04/2015 14:49	83184
Thallium	1.3		0.98	mg/Kg	1	10/04/2015 14:49	83184
Vanadium	11		2.5	mg/Kg	1	10/04/2015 14:49	83184
Zinc	72		2.5	mg/Kg	1	10/04/2015 14:49	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0031	J	0.039	mg/Kg	1	10/05/2015 20:26	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002
Lab ID: P1456-11
Project: Barrington, RI site
Collection Date: 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.87		0.77	mg/Kg	1	10/04/2015 14:53	83184
Arsenic	7.5		0.77	mg/Kg	1	10/04/2015 14:53	83184
Barium	19	B	7.7	mg/Kg	1	10/04/2015 14:53	83184
Beryllium	0.44	B	0.19	mg/Kg	1	10/04/2015 14:53	83184
Cadmium	0.074	J	0.19	mg/Kg	1	10/04/2015 14:53	83184
Chromium	6.9	B	0.77	mg/Kg	1	10/04/2015 14:53	83184
Copper	9.0		1.2	mg/Kg	1	10/04/2015 14:53	83184
Lead	16		0.38	mg/Kg	1	10/04/2015 14:53	83184
Manganese	170		1.9	mg/Kg	1	10/04/2015 14:53	83184
Nickel	6.6	B	1.9	mg/Kg	1	10/04/2015 14:53	83184
Selenium	0.59	J	1.2	mg/Kg	1	10/04/2015 14:53	83184
Silver	ND		1.2	mg/Kg	1	10/04/2015 14:53	83184
Thallium	1.3		0.77	mg/Kg	1	10/04/2015 14:53	83184
Vanadium	12		1.9	mg/Kg	1	10/04/2015 14:53	83184
Zinc	26		1.9	mg/Kg	1	10/04/2015 14:53	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.030	J	0.044	mg/Kg	1	10/05/2015 20:27	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214
Lab ID: P1456-12
Project: Barrington, RI site
Collection Date: 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.0		0.88	mg/Kg	1	10/04/2015 14:57	83184
Arsenic	6.7		0.88	mg/Kg	1	10/04/2015 14:57	83184
Barium	18	B	8.8	mg/Kg	1	10/04/2015 14:57	83184
Beryllium	0.20	BJ	0.22	mg/Kg	1	10/04/2015 14:57	83184
Cadmium	ND		0.22	mg/Kg	1	10/04/2015 14:57	83184
Chromium	9.7	B	0.88	mg/Kg	1	10/04/2015 14:57	83184
Copper	12		1.3	mg/Kg	1	10/04/2015 14:57	83184
Lead	9.3		0.44	mg/Kg	1	10/04/2015 14:57	83184
Manganese	160		2.2	mg/Kg	1	10/04/2015 14:57	83184
Nickel	9.6	B	2.2	mg/Kg	1	10/04/2015 14:57	83184
Selenium	ND		1.3	mg/Kg	1	10/04/2015 14:57	83184
Silver	ND		1.3	mg/Kg	1	10/04/2015 14:57	83184
Thallium	0.67	J	0.88	mg/Kg	1	10/04/2015 14:57	83184
Vanadium	6.6		2.2	mg/Kg	1	10/04/2015 14:57	83184
Zinc	25		2.2	mg/Kg	1	10/04/2015 14:57	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0039	J	0.049	mg/Kg	1	10/05/2015 20:29	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002
Lab ID: P1456-13
Project: Barrington, RI site
Collection Date: 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.69	J	0.97	mg/Kg	1	10/04/2015 15:01	83184
Arsenic	5.2		0.97	mg/Kg	1	10/04/2015 15:01	83184
Barium	9.6	BJ	9.7	mg/Kg	1	10/04/2015 15:01	83184
Beryllium	0.29	B	0.24	mg/Kg	1	10/04/2015 15:01	83184
Cadmium	ND		0.24	mg/Kg	1	10/04/2015 15:01	83184
Chromium	5.0	B	0.97	mg/Kg	1	10/04/2015 15:01	83184
Copper	7.4		1.5	mg/Kg	1	10/04/2015 15:01	83184
Lead	7.5		0.49	mg/Kg	1	10/04/2015 15:01	83184
Manganese	140		2.4	mg/Kg	1	10/04/2015 15:01	83184
Nickel	5.7	B	2.4	mg/Kg	1	10/04/2015 15:01	83184
Selenium	ND		1.5	mg/Kg	1	10/04/2015 15:01	83184
Silver	ND		1.5	mg/Kg	1	10/04/2015 15:01	83184
Thallium	0.66	J	0.97	mg/Kg	1	10/04/2015 15:01	83184
Vanadium	8.0		2.4	mg/Kg	1	10/04/2015 15:01	83184
Zinc	17		2.4	mg/Kg	1	10/04/2015 15:01	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.015	J	0.038	mg/Kg	1	10/05/2015 20:31	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214
Lab ID: P1456-14
Project: Barrington, RI site
Collection Date: 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	1.5		1.0	mg/Kg	1	10/04/2015 15:12	83184
Arsenic	11		1.0	mg/Kg	1	10/04/2015 15:12	83184
Barium	15	B	10	mg/Kg	1	10/04/2015 15:12	83184
Beryllium	0.26	B	0.25	mg/Kg	1	10/04/2015 15:12	83184
Cadmium	0.017	J	0.25	mg/Kg	1	10/04/2015 15:12	83184
Chromium	12	B	1.0	mg/Kg	1	10/04/2015 15:12	83184
Copper	27		1.5	mg/Kg	1	10/04/2015 15:12	83184
Lead	15		0.50	mg/Kg	1	10/04/2015 15:12	83184
Manganese	220		2.5	mg/Kg	1	10/04/2015 15:12	83184
Nickel	18	B	2.5	mg/Kg	1	10/04/2015 15:12	83184
Selenium	ND		1.5	mg/Kg	1	10/04/2015 15:12	83184
Silver	ND		1.5	mg/Kg	1	10/04/2015 15:12	83184
Thallium	0.88	J	1.0	mg/Kg	1	10/04/2015 15:12	83184
Vanadium	9.2		2.5	mg/Kg	1	10/04/2015 15:12	83184
Zinc	44		2.5	mg/Kg	1	10/04/2015 15:12	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.041	mg/Kg	1	10/05/2015 20:32	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03
Lab ID: P1456-15
Project: Barrington, RI site
Collection Date: 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.57	J	0.98	mg/Kg	1	10/04/2015 15:16	83184
Arsenic	5.9		0.98	mg/Kg	1	10/04/2015 15:16	83184
Barium	9.3	BJ	9.8	mg/Kg	1	10/04/2015 15:16	83184
Beryllium	0.32	B	0.24	mg/Kg	1	10/04/2015 15:16	83184
Cadmium	ND		0.24	mg/Kg	1	10/04/2015 15:16	83184
Chromium	5.1	B	0.98	mg/Kg	1	10/04/2015 15:16	83184
Copper	6.8		1.5	mg/Kg	1	10/04/2015 15:16	83184
Lead	8.6		0.49	mg/Kg	1	10/04/2015 15:16	83184
Manganese	120		2.4	mg/Kg	1	10/04/2015 15:16	83184
Nickel	5.6	B	2.4	mg/Kg	1	10/04/2015 15:16	83184
Selenium	ND		1.5	mg/Kg	1	10/04/2015 15:16	83184
Silver	ND		1.5	mg/Kg	1	10/04/2015 15:16	83184
Thallium	1.2		0.98	mg/Kg	1	10/04/2015 15:16	83184
Vanadium	8.7		2.4	mg/Kg	1	10/04/2015 15:16	83184
Zinc	17		2.4	mg/Kg	1	10/04/2015 15:16	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.016	J	0.042	mg/Kg	1	10/05/2015 20:34	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002
Lab ID: P1456-16
Project: Barrington, RI site
Collection Date: 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.72	J	0.88	mg/Kg	1	10/04/2015 15:19	83184
Arsenic	7.1		0.88	mg/Kg	1	10/04/2015 15:19	83184
Barium	15	B	8.8	mg/Kg	1	10/04/2015 15:19	83184
Beryllium	0.39	B	0.22	mg/Kg	1	10/04/2015 15:19	83184
Cadmium	0.025	J	0.22	mg/Kg	1	10/04/2015 15:19	83184
Chromium	6.0	B	0.88	mg/Kg	1	10/04/2015 15:19	83184
Copper	9.2		1.3	mg/Kg	1	10/04/2015 15:19	83184
Lead	19		0.44	mg/Kg	1	10/04/2015 15:19	83184
Manganese	150		2.2	mg/Kg	1	10/04/2015 15:19	83184
Nickel	6.0	B	2.2	mg/Kg	1	10/04/2015 15:19	83184
Selenium	ND		1.3	mg/Kg	1	10/04/2015 15:19	83184
Silver	ND		1.3	mg/Kg	1	10/04/2015 15:19	83184
Thallium	1.2		0.88	mg/Kg	1	10/04/2015 15:19	83184
Vanadium	11		2.2	mg/Kg	1	10/04/2015 15:19	83184
Zinc	21		2.2	mg/Kg	1	10/04/2015 15:19	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.028	J	0.042	mg/Kg	1	10/05/2015 20:36	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416
Lab ID: P1456-17
Project: Barrington, RI site
Collection Date: 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	2.0		0.91	mg/Kg	1	10/04/2015 15:23	83184
Arsenic	11		0.91	mg/Kg	1	10/04/2015 15:23	83184
Barium	9.3	B	9.1	mg/Kg	1	10/04/2015 15:23	83184
Beryllium	0.44	B	0.23	mg/Kg	1	10/04/2015 15:23	83184
Cadmium	0.28		0.23	mg/Kg	1	10/04/2015 15:23	83184
Chromium	22	B	0.91	mg/Kg	1	10/04/2015 15:23	83184
Copper	49		1.4	mg/Kg	1	10/04/2015 15:23	83184
Lead	38		0.45	mg/Kg	1	10/04/2015 15:23	83184
Manganese	310		2.3	mg/Kg	1	10/04/2015 15:23	83184
Nickel	37	B	2.3	mg/Kg	1	10/04/2015 15:23	83184
Selenium	ND		1.4	mg/Kg	1	10/04/2015 15:23	83184
Silver	ND		1.4	mg/Kg	1	10/04/2015 15:23	83184
Thallium	0.53	J	0.91	mg/Kg	1	10/04/2015 15:23	83184
Vanadium	14		2.3	mg/Kg	1	10/04/2015 15:23	83184
Zinc	95		2.3	mg/Kg	1	10/04/2015 15:23	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.041	mg/Kg	1	10/05/2015 20:37	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002
Lab ID: P1456-18
Project: Barrington, RI site
Collection Date: 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	0.79	J	0.96	mg/Kg	1	10/04/2015 15:26	83184
Arsenic	6.2		0.96	mg/Kg	1	10/04/2015 15:26	83184
Barium	11	B	9.6	mg/Kg	1	10/04/2015 15:26	83184
Beryllium	0.33	B	0.24	mg/Kg	1	10/04/2015 15:26	83184
Cadmium	ND		0.24	mg/Kg	1	10/04/2015 15:26	83184
Chromium	5.9	B	0.96	mg/Kg	1	10/04/2015 15:26	83184
Copper	7.0		1.4	mg/Kg	1	10/04/2015 15:26	83184
Lead	9.5		0.48	mg/Kg	1	10/04/2015 15:26	83184
Manganese	160		2.4	mg/Kg	1	10/04/2015 15:26	83184
Nickel	5.5	B	2.4	mg/Kg	1	10/04/2015 15:26	83184
Selenium	ND		1.4	mg/Kg	1	10/04/2015 15:26	83184
Silver	ND		1.4	mg/Kg	1	10/04/2015 15:26	83184
Thallium	1.0		0.96	mg/Kg	1	10/04/2015 15:26	83184
Vanadium	8.9		2.4	mg/Kg	1	10/04/2015 15:26	83184
Zinc	19		2.4	mg/Kg	1	10/04/2015 15:26	83184
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.024	J	0.044	mg/Kg	1	10/05/2015 20:42	83212

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **MB-83184** SampType: **MBLK** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **MB-83184** Batch ID: **83184** Units: **mg/Kg** Analysis Date: **10/04/15 13:50** SeqNo: **2312367**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.38	1.0									
Arsenic	ND	0.41	1.0									
Barium	0.1192	0.031	10									J
Beryllium	0.007183	0.0015	0.25									J
Cadmium	ND	0.015	0.25									
Chromium	0.08777	0.019	1.0									J
Copper	ND	0.11	1.5									
Lead	ND	0.17	0.50									
Manganese	ND	0.13	2.5									
Nickel	0.06967	0.043	2.5									J
Selenium	ND	0.64	1.5									
Silver	ND	0.064	1.5									
Thallium	ND	0.22	1.0									
Vanadium	ND	0.060	2.5									
Zinc	ND	0.18	2.5									

Sample ID: **LCS-83184** SampType: **LCS** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **LCS-83184** Batch ID: **83184** Units: **mg/Kg** Analysis Date: **10/04/15 13:54** SeqNo: **2312368**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	24.71	0.38	1.0	25.00	0	98.8	80	120	0			
Arsenic	25.34	0.41	1.0	25.00	0	101	80	120	0			
Barium	450.1	0.031	10	500.0	0	90.0	80	120	0			B
Beryllium	10.68	0.0015	0.25	12.50	0	85.4	80	120	0			B
Cadmium	12.17	0.015	0.25	12.50	0	97.4	80	120	0			
Chromium	43.64	0.019	1.0	50.00	0	87.3	80	120	0			B
Copper	53.78	0.11	1.5	62.50	0	86.0	80	120	0			
Lead	24.74	0.17	0.50	25.00	0	99.0	80	120	0			
Manganese	110.1	0.13	2.5	125.0	0	88.1	80	120	0			
Nickel	107.8	0.043	2.5	125.0	0	86.3	80	120	0			B
Selenium	24.31	0.64	1.5	25.00	0	97.2	80	120	0			
Silver	57.77	0.064	1.5	62.50	0	92.4	75	120	0			
Thallium	26.09	0.22	1.0	25.00	0	104	80	120	0			
Vanadium	109.1	0.060	2.5	125.0	0	87.3	80	120	0			
Zinc	112.0	0.18	2.5	125.0	0	89.6	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **P1456-04ADUP** SampType: **DUP** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **NOB-103 0002** Batch ID: **83184** Units: **mg/Kg** Analysis Date: **10/04/15 14:12** SeqNo: **2312373**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.6375	0.36	0.95	0	0	0	0	0	0.7812	20.3	20	JR
Arsenic	4.705	0.39	0.95	0	0	0	0	0	4.925	4.55	20	
Barium	10.05	0.029	9.5	0	0	0	0	0	10.72	6.52	20	B
Beryllium	0.3368	0.0014	0.24	0	0	0	0	0	0.3489	3.53	20	B
Cadmium	ND	0.014	0.24	0	0	0	0	0	0	0	20	
Chromium	5.416	0.018	0.95	0	0	0	0	0	5.052	6.95	20	B
Copper	5.968	0.10	1.4	0	0	0	0	0	6.890	14.3	20	
Lead	7.566	0.16	0.48	0	0	0	0	0	7.765	2.59	20	
Manganese	178.2	0.12	2.4	0	0	0	0	0	194.9	8.95	20	
Nickel	5.982	0.041	2.4	0	0	0	0	0	6.459	7.67	20	B
Selenium	ND	0.61	1.4	0	0	0	0	0	0	0	20	
Silver	ND	0.061	1.4	0	0	0	0	0	0	0	20	
Thallium	1.144	0.21	0.95	0	0	0	0	0	0.9551	18	20	
Vanadium	8.182	0.057	2.4	0	0	0	0	0	8.208	0.322	20	
Zinc	16.25	0.17	2.4	0	0	0	0	0	17.56	7.76	20	

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **NOB-103 0002** Batch ID: **83184** Units: **mg/Kg** Analysis Date: **10/04/15 14:16** SeqNo: **2312374**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	13.63	0.28	0.74	18.58	0.7812	69.1	80	120	0			S
Arsenic	26.32	0.30	0.74	18.58	4.925	115	80	120	0			
Barium	371.5	0.023	7.4	371.6	10.72	97.1	80	120	0			B
Beryllium	9.003	0.0011	0.19	9.291	0.3489	93.1	80	120	0			B
Cadmium	9.714	0.011	0.19	9.291	0	105	80	120	0			
Chromium	41.12	0.014	0.74	37.16	5.052	97.1	80	120	0			B
Copper	52.96	0.082	1.1	46.45	6.890	99.2	80	120	0			
Lead	27.82	0.13	0.37	18.58	7.765	108	80	120	0			
Nickel	93.46	0.032	1.9	92.91	6.459	93.6	80	120	0			B
Selenium	19.66	0.48	1.1	18.58	0	106	80	120	0			
Silver	47.11	0.048	1.1	46.45	0	101	75	120	0			
Thallium	21.74	0.16	0.74	18.58	0.9551	112	80	120	0			
Vanadium	96.89	0.045	1.9	92.91	8.208	95.4	80	120	0			
Zinc	108.4	0.13	1.9	92.91	17.56	97.7	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **P1456-04ASD** SampType: **SD** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **NOB-103 0002** Batch ID: **83184** Units: **mg/Kg** Analysis Date: **10/04/15 14:20** SeqNo: **2312375**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	2.0	5.2	0	0	0	0	0	0.7812	0	10	
Arsenic	5.184	2.1	5.2	0	0	0	0	0	4.925	5.14	10	
Barium	13.86	0.16	52	0	0	0	0	0	10.72	25.5	10	BJR
Beryllium	0.4433	0.0078	1.3	0	0	0	0	0	0.3489	23.8	10	BJR
Cadmium	ND	0.078	1.3	0	0	0	0	0	0	0	10	
Chromium	5.497	0.098	5.2	0	0	0	0	0	5.052	8.43	10	B
Copper	6.374	0.57	7.8	0	0	0	0	0	6.890	7.77	10	J
Lead	8.745	0.88	2.6	0	0	0	0	0	7.765	11.9	10	R
Manganese	197.5	0.67	13	0	0	0	0	0	194.9	1.33	10	
Nickel	7.486	0.22	13	0	0	0	0	0	6.459	14.7	10	BJR
Selenium	ND	3.3	7.8	0	0	0	0	0	0	0	10	
Silver	ND	0.33	7.8	0	0	0	0	0	0	0	10	
Thallium	ND	1.1	5.2	0	0	0	0	0	0.9551	0	10	
Vanadium	8.223	0.31	13	0	0	0	0	0	8.208	0.182	10	J
Zinc	18.70	0.93	13	0	0	0	0	0	17.56	6.31	10	

Sample ID: **P1456-04APDS** SampType: **PDS** TestCode: **SW6010_S** Prep Date: **10/02/15 13:00** Run ID: **OPTIMA2_151004A**
Client ID: **NOB-103 0002** Batch ID: **83184** Units: **mg/Kg** Analysis Date: **10/04/15 14:30** SeqNo: **2312378**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	27.59	0.39	1.0	25.87	0.7812	104	75	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7471

SW846 7471B -- Mercury by FIA

Sample ID: **MB-83212** SampType: **MBLK** TestCode: **SW7471** Prep Date: **10/05/15 13:58** Run ID: **FIMS2_151005B**
Client ID: **MB-83212** Batch ID: **83212** Units: **mg/Kg** Analysis Date: **10/05/15 20:02** SeqNo: **2312810**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0021	0.033									

Sample ID: **LCS-83212** SampType: **LCS** TestCode: **SW7471** Prep Date: **10/05/15 13:58** Run ID: **FIMS2_151005B**
Client ID: **LCS-83212** Batch ID: **83212** Units: **mg/Kg** Analysis Date: **10/05/15 20:04** SeqNo: **2312811**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.7867	0.0021	0.033	0.7580	0	104	80	120	0			

Sample ID: **P1456-04ADUP** SampType: **DUP** TestCode: **SW7471** Prep Date: **10/05/15 13:58** Run ID: **FIMS2_151005B**
Client ID: **NOB-103 0002** Batch ID: **83212** Units: **mg/Kg** Analysis Date: **10/05/15 20:12** SeqNo: **2312816**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.01559	0.0025	0.039	0	0	0	0	0	0.01253	21.8	20	JR

Sample ID: **P1456-04AMS** SampType: **MS** TestCode: **SW7471** Prep Date: **10/05/15 13:58** Run ID: **FIMS2_151005B**
Client ID: **NOB-103 0002** Batch ID: **83212** Units: **mg/Kg** Analysis Date: **10/05/15 20:14** SeqNo: **2312817**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.8632	0.0023	0.037	0.8421	0.01253	101	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0709
Lab ID: P1456-01
Project: Barrington, RI site
Collection Date: 09/28/15 14:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.6	mg/Kg	1	10/01/2015 14:50	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0002
Lab ID: P1456-02
Project: Barrington, RI site
Collection Date: 09/28/15 14:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		5.4	mg/Kg	1	10/01/2015 14:53	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-104 0709
Lab ID: P1456-03

Project: Barrington, RI site
Collection Date: 09/28/15 15:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.1	mg/Kg	1	10/01/2015 14:56	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 0002
Lab ID: P1456-04
Project: Barrington, RI site
Collection Date: 09/28/15 15:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.2	mg/Kg	1	10/01/2015 15:00	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-103 1315
Lab ID: P1456-05

Project: Barrington, RI site
Collection Date: 09/28/15 15:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		5.2	mg/Kg	1	10/01/2015 15:23	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0002
Lab ID: P1456-06
Project: Barrington, RI site
Collection Date: 09/28/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		5.1	mg/Kg	1	10/01/2015 15:26	83168

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-102 0709
Lab ID: P1456-07

Project: Barrington, RI site
Collection Date: 09/28/15 16:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/05/2015 12:06	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 0002
Lab ID: P1456-09

Project: Barrington, RI site
Collection Date: 09/28/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.5	mg/Kg	1	10/05/2015 12:11	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113 1214
Lab ID: P1456-10

Project: Barrington, RI site
Collection Date: 09/28/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/05/2015 12:15	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 0002
Lab ID: P1456-11
Project: Barrington, RI site
Collection Date: 09/28/15 11:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.2	mg/Kg	1	10/05/2015 11:13	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121 1214
Lab ID: P1456-12
Project: Barrington, RI site
Collection Date: 09/28/15 11:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.9	mg/Kg	1	10/05/2015 11:17	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 0002
Lab ID: P1456-13
Project: Barrington, RI site
Collection Date: 09/28/15 12:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/05/2015 11:22	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-106 1214
Lab ID: P1456-14
Project: Barrington, RI site
Collection Date: 09/28/15 12:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.5	mg/Kg	1	10/05/2015 11:26	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: FD-03
Lab ID: P1456-15
Project: Barrington, RI site
Collection Date: 09/28/15 0:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/05/2015 11:31	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 0002
Lab ID: P1456-16
Project: Barrington, RI site
Collection Date: 09/28/15 13:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/05/2015 11:35	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-107 1416
Lab ID: P1456-17
Project: Barrington, RI site
Collection Date: 09/28/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/05/2015 11:40	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105 0002
Lab ID: P1456-18
Project: Barrington, RI site
Collection Date: 09/28/15 14:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/05/2015 11:44	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7196_S

SW846 7196A -- CR+ by Colorimetric Method

Sample ID: **MB-83168** SampType: **MBLK** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **MB-83168** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 14:00** SeqNo: **2313801**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	4.0	4.0									

Sample ID: **MB-83201** SampType: **MBLK** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **MB-83201** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 11:00** SeqNo: **2313941**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	4.0	4.0									

Sample ID: **LCS-83168** SampType: **LCS** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **LCS-83168** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 14:03** SeqNo: **2313803**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	19.82	4.0	4.0	20.00	0	99.1	80	120	0			

Sample ID: **LCS-83201** SampType: **LCS** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **LCS-83201** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 11:04** SeqNo: **2313943**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	18.82	4.0	4.0	20.00	0	94.1	80	120	0			

Sample ID: **LCSi-83168** SampType: **LCSi** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **LCSi-83168** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 14:06** SeqNo: **2313806**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	301.4	40	40	322.0	0	93.6	80	120	0			

Sample ID: **LCSi-83201** SampType: **LCSi** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **LCSi-83201** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 11:08** SeqNo: **2313944**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	294.8	40	40	322.0	0	91.6	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1456
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7196_S

SW846 7196A -- CR+ by Colorimetric Method

Sample ID: **P1456-04BDUP** SampType: **DUP** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **NOB-103 0002** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 15:03** SeqNo: **2313838**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	4.2	4.2	0	0	0	0	0	0	0	20	

Sample ID: **P1456-04BMS** SampType: **MS** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **NOB-103 0002** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 15:06** SeqNo: **2313840**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	15.39	4.2	4.2	21.11	0	72.9	75	125	0			S

Sample ID: **P1456-04BMSD** SampType: **MSD** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **NOB-103 0002** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 15:10** SeqNo: **2313842**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	14.59	4.2	4.2	21.11	0	69.1	75	125	15.39	5.35	35	S

Sample ID: **P1456-04BMSI** SampType: **MSi** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **NOB-103 0002** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 15:13** SeqNo: **2313844**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	250.1	42	42	339.9	0	73.6	30	150	0			

Sample ID: **P1456-04BMSID** SampType: **MSi** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **NOB-103 0002** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 15:16** SeqNo: **2313847**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	266.4	42	42	339.9	0	78.4	30	150	0			

Sample ID: **P1456-04BPDS** SampType: **PDS** TestCode: **SW7196_S** Prep Date: **10/01/15 10:00** Run ID: **SPEC2_151002A**
Client ID: **NOB-103 0002** Batch ID: **83168** Units: **mg/Kg** Analysis Date: **10/01/15 15:20** SeqNo: **2313851**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	21.81	4.2	4.2	21.11	0	103	85	115	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

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- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Report Date:
12-Oct-15 12:50

Laboratory Report

Eurofins Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Edward Lawler

Project: Barrington, RI Site
Project #: P1456

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC13146-01	NOB-105 0709	Soil	28-Sep-15 14:40	02-Oct-15 18:20
SC13146-02	NOB-104 0002	Soil	28-Sep-15 14:55	02-Oct-15 18:20
SC13146-03	NOB-104 0709	Soil	28-Sep-15 15:05	02-Oct-15 18:20
SC13146-04	NOB-103 0002	Soil	28-Sep-15 15:15	02-Oct-15 18:20
SC13146-05	NOB-103 1315	Soil	28-Sep-15 15:30	02-Oct-15 18:20
SC13146-06	NOB-102 0002	Soil	28-Sep-15 16:00	02-Oct-15 18:20
SC13146-07	NOB-102 0709	Soil	28-Sep-15 16:20	02-Oct-15 18:20
SC13146-08	NOB-113 0002	Soil	28-Sep-15 09:00	02-Oct-15 18:20
SC13146-09	NOB-113 1214	Soil	28-Sep-15 10:30	02-Oct-15 18:20
SC13146-10	NOB-121 0002	Soil	28-Sep-15 11:10	02-Oct-15 18:20
SC13146-11	NOB-121 1214	Soil	28-Sep-15 11:40	02-Oct-15 18:20
SC13146-12	NOB-106 0002	Soil	28-Sep-15 12:30	02-Oct-15 18:20
SC13146-13	NOB-106 1214	Soil	28-Sep-15 12:45	02-Oct-15 18:20
SC13146-14	FD-03	Soil	28-Sep-15 00:00	02-Oct-15 18:20
SC13146-15	NOB-107 0002	Soil	28-Sep-15 13:15	02-Oct-15 18:20
SC13146-16	NOB-107 1416	Soil	28-Sep-15 13:30	02-Oct-15 18:20
SC13146-17	NOB-105 0002	Soil	28-Sep-15 14:25	02-Oct-15 18:20

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

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:

June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 12 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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

CASE NARRATIVE:

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

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

The samples were received 0.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	Eurofins Spectrum Analytical, Inc. - RI
Project:	Barrington, RI Site / P1456
Work Order:	SC13146
Sample(s) received on:	10/2/2015

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

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: **Client ID:**

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method

No hits detected.

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

Sample Identification
NOB-105 0709
SC13146-01

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 14:40	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	88.6		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.517	U	mg/kg dry	0.517	0.458	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-104 0002
SC13146-02

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 14:55	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	77.0		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.557	U	mg/kg dry	0.557	0.492	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-104 0709
SC13146-03

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 15:05	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	79.3		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.593	U	mg/kg dry	0.593	0.525	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-103 0002
SC13146-04

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 15:15	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	85.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.532	U	mg/kg dry	0.532	0.471	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-103 1315
SC13146-05

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 15:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	82.4		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.575	U	mg/kg dry	0.575	0.508	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-102 0002
SC13146-06

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 16:00	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	89.6		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.525	U	mg/kg dry	0.525	0.465	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-102 0709
SC13146-07

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 16:20	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	90.3		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.535	U	mg/kg dry	0.535	0.473	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-113 0002
SC13146-08

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 09:00	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	89.8		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.550	U	mg/kg dry	0.550	0.487	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-113 1214
SC13146-09

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 10:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	86.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.522	U	mg/kg dry	0.522	0.462	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-121 0002
SC13146-10

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 11:10	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	78.7		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.575	U	mg/kg dry	0.575	0.509	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-121 1214
SC13146-11

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 11:40	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	86.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.528	U	mg/kg dry	0.528	0.467	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-106 0002
SC13146-12

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 12:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	80.3		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.596	U	mg/kg dry	0.596	0.527	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519203	X

Sample Identification
NOB-106 1214
SC13146-13

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 12:45	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	87.4		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.437	U	mg/kg dry	0.437	0.386	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification
FD-03
SC13146-14

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 00:00	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	91.9		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518779	
57-12-5	Cyanide (total)	< 0.494	U	mg/kg dry	0.494	0.437	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification
NOB-107 0002
SC13146-15

Client Project #	Matrix	Collection Date/Time	Received
P1456	Soil	28-Sep-15 13:15	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	90.6		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518780	
57-12-5	Cyanide (total)	< 0.509	U	mg/kg dry	0.509	0.450	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-107 1416 SC13146-16	P1456	Soil	28-Sep-15 13:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	73.4		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518780	
57-12-5	Cyanide (total)	< 0.545	U	mg/kg dry	0.545	0.483	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-105 0002 SC13146-17	P1456	Soil	28-Sep-15 14:25	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	90.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518780	
57-12-5	Cyanide (total)	< 0.547	U	mg/kg dry	0.547	0.484	1	SW846 9012B	09-Oct-15	09-Oct-15	rlt	1519237	X

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1518779 - General Preparation										
Duplicate (1518779-DUP2)			**Source: SC13146-04**			Prepared & Analyzed: 05-Oct-15				
% Solids	**85.8**		%			85.1			0.8	5
Batch 1518780 - General Preparation										
Duplicate (1518780-DUP1)			**Source: SC13146-15**			Prepared & Analyzed: 05-Oct-15				
% Solids	**89.9**		%			90.6			0.7	5
Duplicate (1518780-DUP2)			**Source: SC13146-16**			Prepared & Analyzed: 05-Oct-15				
% Solids	**73.1**		%			73.4			0.4	5
Batch 1519203 - General Preparation										
Blank (1519203-BLK1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
Blank (1519203-BLK2)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
LCS (1519203-BS1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**19.7**		mg/kg wet	0.500	20.0		99	90-110		
LCS (1519203-BS2)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**19.7**		mg/kg wet	0.500	20.0		99	90-110		
Calibration Blank (1519203-CCB1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519203-CCB2)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519203-CCB3)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Check (1519203-CCV1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**30.4**		mg/kg wet	0.500	30.0		101	90-110		
Calibration Check (1519203-CCV2)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**30.6**		mg/kg wet	0.500	30.0		102	90-110		
Calibration Check (1519203-CCV3)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**30.8**		mg/kg wet	0.500	30.0		103	90-110		
Duplicate (1519203-DUP1)			**Source: SC13146-04**			Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	< 0.578	U	mg/kg dry	0.578		BRL				35
Matrix Spike (1519203-MS1)			**Source: SC13146-04**			Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**10.2**		mg/kg dry	0.526	10.5	BRL	97	90-110		
Matrix Spike Dup (1519203-MSD1)			**Source: SC13146-04**			Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**9.98**		mg/kg dry	0.517	10.3	BRL	96	90-110	2	35
Reference (1519203-SRM1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**95.7**		mg/kg wet	1.40	117		82	36.75-135		
Batch 1519237 - General Preparation										
Blank (1519237-BLK1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
Blank (1519237-BLK2)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
LCS (1519237-BS1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**18.7**		mg/kg wet	0.500	20.0		94	90-110		
LCS (1519237-BS2)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**19.2**		mg/kg wet	0.500	20.0		96	90-110		
Calibration Blank (1519237-CCB1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519237-CCB2)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519237-CCB3)						Prepared & Analyzed: 09-Oct-15				

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1519237 - General Preparation										
Calibration Blank (1519237-CCB3)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519237-CCB4)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519237-CCB5)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Check (1519237-CCV1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**30.4**		mg/kg wet	0.500	30.0		101	90-110		
Calibration Check (1519237-CCV2)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**30.6**		mg/kg wet	0.500	30.0		102	90-110		
Calibration Check (1519237-CCV3)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**30.8**		mg/kg wet	0.500	30.0		103	90-110		
Calibration Check (1519237-CCV4)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**30.0**		mg/kg wet	0.500	30.0		100	90-110		
Calibration Check (1519237-CCV5)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**30.7**		mg/kg wet	0.500	30.0		102	90-110		
Reference (1519237-SRM1)						Prepared & Analyzed: 09-Oct-15				
Cyanide (total)	**79.9**		mg/kg wet	0.878	117		68	36.75-135		

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

Validated by:
June O'Connor
Kimberly LaPlante

SC13146.01C

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

WorkOrder : P1456
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/12/2015
FAX Due Date : 10/7/2015
Report To : Edward A Lawler
Purchase Order : P1456
EDD Types : **Please generate a Little PEL EDD**

= number of containers

Requested Test: SW9012_S

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_S	
NOB-105 0709	09/28/2015 14:40	1	Soil		P1456-01B	X	13146-01
NOB-104 0002	09/28/2015 14:55	1	Soil		P1456-02B	X	02
NOB-104 0709	09/28/2015 15:05	1	Soil		P1456-03B	X	03
NOB-103 0002	09/28/2015 15:15	3 1	Soil	X	P1456-04B	X	04
NOB-103 1315	09/28/2015 15:30	1	Soil		P1456-05B	X	05
NOB-102 0002	09/28/2015 16:00	1	Soil		P1456-06B	X	06

1) SW9012_S, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1-1 | 0.1 | 01
10/2/15

		Date/Time			Date/Time
Relinquished by:		10/02/15 11:10	**Received by:**		10/2/15 12:40
Relinquished by:		10/2/15 13:05	**Received by:**		10/2/15 18:20

10/02/2015
Page 1 of 3

646 Camp Ave * North Kingstown * RI * 028524008 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

[X] REFRIG.

P1456

SC 131460K

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1456
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/12/2015
FAX Due Date : 10/7/2015
Report To : Edward A Lawler
Purchase Order : P1456
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_S										
NOB-102 0709	09/28/2015 16:20	1	Soil		P1456-07B	X										13146-07
NOB-113 0002	09/28/2015 09:00	1	Soil		P1456-09B	X										08
NOB-113 1214	09/28/2015 10:30	1	Soil		P1456-10B	X										09
NOB-121 0002	09/28/2015 11:10	1	Soil		P1456-11B	X										10
NOB-121 1214	09/28/2015 11:40	1	Soil		P1456-12B	X										11
NOB-106 0002	09/28/2015 12:30	1	Soil		P1456-13B	X										12

1) SW9012_S, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1/-1/0.1/0)
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/02/15 11:10	**Received by:**	[illegible]	10/2/15 12:40
Relinquished by:	[illegible]	10/2/15 13:05	**Received by:**	[illegible]	10/2/15 18:20

[X] REFRIG.

SC 13146 OK

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1456
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/12/2015
FAX Due Date : 10/7/2015
Report To : Edward A Lawler
Purchase Order : P1456
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_S										
NOB-106 1214	09/28/2015 12:45	1	Soil		P1456-14B	X										13146-13
FD-03	09/28/2015 00:00	1	Soil		P1456-15B	X										14
NOB-107 0002	09/28/2015 13:15	1	Soil		P1456-16B	X										15
NOB-107 1416	09/28/2015 13:30	1	Soil		P1456-17B	X										16
NOB-105 0002	09/28/2015 14:25	1	Soil		P1456-18B	X										17

1) SW9012_S, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1/-1/0.1/0)
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/02/15 11:10	**Received by:**	David Dee	10/2/15 12:40
Relinquished by:	David Dee	10/2/15 13:05	**Received by:**	[illegible]	10/2/15 18:20

10/02/2015
Page 3 of 3

646 Camp Ave * North Kingstown * RI * 028524008 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

[X] REFRIG.

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-01A	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	PMoist	/					A2
P1456-01A	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-01A	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW7471	/					A2
P1456-01A	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW8081_S	/					A2
P1456-01A	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW8082_S	/					A2
P1456-01A	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-01A	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-01B	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW7196_S	/					A2
P1456-01B	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-01C	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-01D	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	GRO_S	/					VOA
P1456-01D	NOB-105 0709	09/28/2015 14:40	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-02A	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	PMoist	/					A2
P1456-02A	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-02A	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW7471	/					A2
P1456-02A	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW8081_S	/					A2
P1456-02A	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW8082_S	/					A2
P1456-02A	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-02A	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-02B	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW7196_S	/					A2
P1456-02B	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-02C	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-02D	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	GRO_S	/					VOA
P1456-02D	NOB-104 0002	09/28/2015 14:55	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-03A	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	PMoist	/					A2
P1456-03A	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-03A	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW7471	/					A2
P1456-03A	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW8081_S	/					A2
P1456-03A	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW8082_S	/					A2
P1456-03A	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-03A	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-03B	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW7196_S	/					A2
P1456-03B	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-03C	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-03D	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	GRO_S	/					VOA
P1456-03D	NOB-104 0709	09/28/2015 15:05	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-04A	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	PMoist	/			Y		A2
P1456-04A	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn			Y	Y	A2
P1456-04A	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW7471	/			Y		A2
P1456-04A	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW8081_S	/			Y		A2
P1456-04A	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW8082_S	/			Y		A2
P1456-04A	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW8270_S	/ Special SEL			Y	Y	A2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-04A	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO			Y		A2
P1456-04B	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW7196_S	/			Y		A2
P1456-04B	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW9012_S	/ SPECTRUM--			Y		A2
P1456-04C	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW8260_LOW_S	/			Y	Y	VOA
P1456-04D	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	GRO_S	/			Y		VOA
P1456-04D	NOB-103 0002	09/28/2015 15:15	09/30/2015	Soil	SW8260_MED_S	/		Y	Y	Y	VOA
P1456-05A	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	PMoist	/					A2
P1456-05A	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-05A	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW7471	/					A2
P1456-05A	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW8081_S	/					A2
P1456-05A	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW8082_S	/					A2
P1456-05A	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-05A	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-05B	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW7196_S	/					A2
P1456-05B	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-05C	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-05D	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	GRO_S	/					VOA
P1456-05D	NOB-103 1315	09/28/2015 15:30	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-06A	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	PMoist	/					A2
P1456-06A	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-06A	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW7471	/					A2
P1456-06A	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW8081_S	/					A2
P1456-06A	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW8082_S	/					A2
P1456-06A	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-06A	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-06B	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW7196_S	/					A2
P1456-06B	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-06C	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-06D	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	GRO_S	/					VOA
P1456-06D	NOB-102 0002	09/28/2015 16:00	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-07A	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	PMoist	/					A2
P1456-07A	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-07A	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW7471	/					A2
P1456-07A	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW8081_S	/					A2
P1456-07A	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW8082_S	/					A2
P1456-07A	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-07A	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-07B	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW7196_S	/					A2
P1456-07B	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-07C	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-07D	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	GRO_S	/					VOA

HF = Fraction logged in but all tests have been placed on hold

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-07D	NOB-102 0709	09/28/2015 16:20	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-08A	TRIP BLANK	09/29/2015 09:00	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-08B	TRIP BLANK	09/29/2015 09:00	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-09A	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	PMoist	/					A2
P1456-09A	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-09A	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW7471	/					A2
P1456-09A	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW8081_S	/					A2
P1456-09A	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW8082_S	/					A2
P1456-09A	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-09A	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-09B	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW7196_S	/					A2
P1456-09B	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-09C	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-09D	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	GRO_S	/					VOA
P1456-09D	NOB-113 0002	09/28/2015 09:00	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-10A	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	PMoist	/					A2
P1456-10A	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-10A	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW7471	/					A2
P1456-10A	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW8081_S	/					A2
P1456-10A	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW8082_S	/					A2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
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Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-10A	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-10A	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-10B	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW7196_S	/					A2
P1456-10B	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-10C	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-10D	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	GRO_S	/					VOA
P1456-10D	NOB-113 1214	09/28/2015 10:30	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-11A	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	PMoist	/					A2
P1456-11A	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-11A	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW7471	/					A2
P1456-11A	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW8081_S	/					A2
P1456-11A	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW8082_S	/					A2
P1456-11A	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-11A	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-11B	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW7196_S	/					A2
P1456-11B	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-11C	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-11D	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	GRO_S	/					VOA
P1456-11D	NOB-121 0002	09/28/2015 11:10	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-12A	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	PMoist	/					A2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-12A	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-12A	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW7471	/					A2
P1456-12A	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW8081_S	/					A2
P1456-12A	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW8082_S	/					A2
P1456-12A	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-12A	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-12B	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW7196_S	/					A2
P1456-12B	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-12C	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-12D	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	GRO_S	/					VOA
P1456-12D	NOB-121 1214	09/28/2015 11:40	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-13A	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	PMoist	/					A2
P1456-13A	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-13A	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW7471	/					A2
P1456-13A	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW8081_S	/					A2
P1456-13A	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW8082_S	/					A2
P1456-13A	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-13A	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-13B	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW7196_S	/					A2
P1456-13B	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-13C	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-13D	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	GRO_S	/					VOA
P1456-13D	NOB-106 0002	09/28/2015 12:30	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-14A	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	PMoist	/					A2
P1456-14A	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-14A	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW7471	/					A2
P1456-14A	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW8081_S	/					A2
P1456-14A	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW8082_S	/					A2
P1456-14A	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-14A	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-14B	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW7196_S	/					A2
P1456-14B	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-14C	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-14D	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	GRO_S	/					VOA
P1456-14D	NOB-106 1214	09/28/2015 12:45	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-15A	FD-03	09/28/2015 00:00	09/30/2015	Soil	PMoist	/					A2
P1456-15A	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-15A	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW7471	/					A2
P1456-15A	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW8081_S	/					A2
P1456-15A	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW8082_S	/					A2
P1456-15A	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-15A	FD-03	09/28/2015 00:00	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-15B	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW7196_S	/					A2
P1456-15B	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-15C	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-15D	FD-03	09/28/2015 00:00	09/30/2015	Soil	GRO_S	/					VOA
P1456-15D	FD-03	09/28/2015 00:00	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-16A	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	PMoist	/					A2
P1456-16A	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-16A	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW7471	/					A2
P1456-16A	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW8081_S	/					A2
P1456-16A	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW8082_S	/					A2
P1456-16A	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-16A	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-16B	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW7196_S	/					A2
P1456-16B	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-16C	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-16D	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	GRO_S	/					VOA
P1456-16D	NOB-107 0002	09/28/2015 13:15	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-17A	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	PMoist	/					A2
P1456-17A	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-17A	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW7471	/					A2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1456

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1456-17A	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW8081_S	/					A2
P1456-17A	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW8082_S	/					A2
P1456-17A	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-17A	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-17B	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW7196_S	/					A2
P1456-17B	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-17C	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-17D	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	GRO_S	/					VOA
P1456-17D	NOB-107 1416	09/28/2015 13:30	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1456-18A	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	PMoist	/					A2
P1456-18A	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	A2
P1456-18A	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW7471	/					A2
P1456-18A	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW8081_S	/					A2
P1456-18A	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW8082_S	/					A2
P1456-18A	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW8270_S	/ Special SEL				Y	A2
P1456-18A	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	TPH_S	/ Extractable TPH- DRO					A2
P1456-18B	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW7196_S	/					A2
P1456-18B	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW9012_S	/ SPECTRUM--					A2
P1456-18C	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1456-18D	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	GRO_S	/					VOA
P1456-18D	NOB-105 0002	09/28/2015 14:25	09/30/2015	Soil	SW8260_MED_S	/		Y		Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 3

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering
585 Middlesex St
Lowell, MA 01851

Telephone #: 978-683.0851
Project Mgr. T. COSTA

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: PALMER POINT
Location: BARRINGTON State: RI
Sampler(s): JNB/AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1455 G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	Pest./PCB	Metals (RCI)	Hex. Chrom	Cyanide	GRO/DRO		
List preservative code below:										9	11	-	-					
01	NBS-105 0709	9/28/15	1440	G	S	4	2	-	-	X	X	X	X	X	X	X		
02	NOB-104 0002		1455							X	X	X	X	X	X	X		
03	NOB-104 0709		1505							X	X	X	X	X	X	X		
04	NOB-103 0002		1515							X	X	X	X	X	X	X		
05	NOB-103 1315		1530							X	X	X	X	X	X	X		
06	NOB-102 0002		1600							X	X	X	X	X	X	X		
07	NOB-102 0709		1620							X	X	X	X	X	X	X		
04	MS/MSD (103 0002)		1515							X	X	X	X	X	X	X		
08	Trip Blank	9/28/15	0900	V		2				X								

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/28/15	1212	
[signature]	Agnes Huntley	9/30/15	13:00	

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

☐ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.0°C, 3.0°C

www.spectrum-analytical.com

Revised Feb 2013

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 2 of 3

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Ind icate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis
585 Middlesex St
Lowell MA 01851

Telephone #:
Project Mgr. T. Costa

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): JNB / AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1455 G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	PCB/PCB	Metals (RCP)	Hex Cr.	Cyanide	GRO/DRO			
List preservative code below:											9	11	–	–					
09	NOB-113 0002	9/28/15	900	G	S	4	2	–	–	X	X	X	X	X	X	X			
10	NOB-113 1214		1030							X	X	X	X	X	X	X			
11	NOB-121 0002		1110							X	X	X	X	X	X	X			
12	NOB-121 1214		1140							X	X	X	X	X	X	X			
13	NOB-106 0002		1230							X	X	X	X	X	X	X			
14	NOB-106 1214		1245							X	X	X	X	X	X	X			
15	FD-03 ~~2400~~		2400							X	X	X	X	X	X	X			
16	NOB-107 0002		1315							X	X	X	X	X	X	X			
17	NOB-107 1416		1330							X	X	X	X	X	X	X			
18	NOB-105 0002		1425							X	X	X	X	X	X	X			

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/29/15	1212	
[signature]	[signature]	9/30/15	13:00	

☐ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.0°C, 3.0°C

Revised Feb 2013

Eurofins Spectrum Analytical, Inc. -- ESA-RI

Received By: AGH	Page 01 of 01
Reviewed By: CJP	Log-in Date 09/30/2015
Work Order: P1456	Client Name: Nobis Engineering, Inc
Project Name/Event: Barrington, RI site	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
5. Airbill No. — Courier N/A
6. Sample Tags — Present / Absent
   Sample Tag Numbers — Listed / Not Listed on Chain-of-Custody
7. Sample Condition — Intact / Broken/ Leaking
8. Cooler Temperature Indicator Bottle — Present / Absent

9. Cooler Temperature	4.0 °C, 3.0°C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	09/30/2015
12. Time Received	13:00

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
P1456-01						F/M	
P1456-02						F/M	
P1456-03						F/M	
P1456-04						F/M	
P1456-05						F/M	
P1456-06						F/M	
P1456-07						F/M	
P1456-08						F/M	
P1456-09						F/M	
P1456-10						F/M	
P1456-11						F/M	
P1456-12						F/M	
P1456-13						F/M	
P1456-14						F/M	
P1456-15						F/M	
P1456-16						F/M	
P1456-17						F/M	
P1456-18						F/M	

IR Temp Gun ID:MT-74

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

WP-1156 / 1/16/09 451 / CWID:013 908

Sample Condition Form

Last Page of Data Report

Report Date:
13-Oct-15 13:53

eurofins | Spectrum Analytical

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Nobis Engineering, Inc
585 Middlesex Street
Lowell, MA 01851

Attn: Gail DeRuzzo

Work Order: P1457
Project : Barrington, RI site
Project #:

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P1457-01	WELL-1	Aqueous	28-Sep-15 12:55	30-Sep-15 13:00
P1457-02	DUP-01-GW	Aqueous	28-Sep-15 12:55	30-Sep-15 13:00
P1457-03	TRIP BLANK	Aqueous	29-Sep-15 10:30	30-Sep-15 13:00
P1457-04	WELL-1-F	Aqueous	28-Sep-15 12:55	30-Sep-15 13:00
P1457-05	DUP-01-GW-F	Aqueous	28-Sep-15 12:55	30-Sep-15 13:00

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Eurofins Spectrum Analytical (ESA-RI) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1457

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA

Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and

for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1457

SW846 8015D GRO, Gasoline Range Organic (GRO) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D GRO

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V4
Instrument Type: GC-FID/PID

Description: HP5890 A
Manufacturer: Hewlett-Packard
Model: 5890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

NA.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes

are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1457

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi

Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes

are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integrations were performed on the following:

LCS-83155 Benzidine , Pentachlorophenol due to M6

SSTD0056T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid, Pentachlorophenol due to M6

SSTD0106T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid due to M6

SSTD0256D Benzoic acid , Caprolactam, Pentachlorophenol due to M6

SSTD0406T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0606T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0806T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Indeno(1,2,3-cd)pyrene due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1457

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1457

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard

Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1457

SW846 8011, EDB and DBCP by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8011

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3570

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies

generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

The following samples were manually integrated:

504L1H5 1,1,1,2-Tetrachloroethane on front column , 1,2-Dibromo-3-chloropropane on front column , 1,2-Dibromoethane on front column due to M3

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Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1457

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D TPH

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

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verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1457

SW846 6020A, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6020A, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: X1
Instrument Type: ICPMS
Description: X1
Manufacturer: ThermoFisher
Model: X-Series 2

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: Sharon B Lawler

Date: 10/13/2015

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Chloromethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Vinyl chloride	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Bromomethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Chloroethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Trichlorofluoromethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,1-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Acetone	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Carbon disulfide	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Methylene chloride	ND		5.0	ug/L	1	10/01/2015 18:33	83160
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,1-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
2-Butanone	ND		5.0	ug/L	1	10/01/2015 18:33	83160
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
2,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Bromochloromethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Chloroform	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,1-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Carbon tetrachloride	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Benzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Trichloroethene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Dibromomethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Bromodichloromethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Toluene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,3-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Tetrachloroethene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
2-Hexanone	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Dibromochloromethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2-Dibromoethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Chlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Ethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
m,p-Xylene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
o-Xylene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Xylene (Total)	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Styrene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Bromoform	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Isopropylbenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Bromobenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
n-Propylbenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
2-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
4-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
tert-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
sec-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
4-Isopropyltoluene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
n-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Hexachlorobutadiene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Naphthalene	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Diethyl ether	ND		5.0	ug/L	1	10/01/2015 18:33	83160
Tetrahydrofuran	ND		10	ug/L	1	10/01/2015 18:33	83160
Surrogate: Dibromofluoromethane	98.7		85-115	%REC	1	10/01/2015 18:33	83160
Surrogate: 1,2-Dichloroethane-d4	101		70-120	%REC	1	10/01/2015 18:33	83160
Surrogate: Toluene-d8	101		85-120	%REC	1	10/01/2015 18:33	83160
Surrogate: Bromofluorobenzene	104		75-120	%REC	1	10/01/2015 18:33	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Chloromethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Vinyl chloride	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Bromomethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Chloroethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Trichlorofluoromethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,1-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Acetone	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Carbon disulfide	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Methylene chloride	ND		5.0	ug/L	1	10/01/2015 18:59	83160
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,1-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
2-Butanone	ND		5.0	ug/L	1	10/01/2015 18:59	83160
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
2,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Bromochloromethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Chloroform	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,1-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Carbon tetrachloride	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Benzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Trichloroethene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Dibromomethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Bromodichloromethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Toluene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,3-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Tetrachloroethene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
2-Hexanone	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Dibromochloromethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2-Dibromoethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Chlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Ethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
m,p-Xylene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
o-Xylene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Xylene (Total)	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Styrene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Bromoform	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Isopropylbenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Bromobenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
n-Propylbenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
2-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
4-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
tert-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
sec-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
4-Isopropyltoluene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
n-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Hexachlorobutadiene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Naphthalene	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Diethyl ether	ND		5.0	ug/L	1	10/01/2015 18:59	83160
Tetrahydrofuran	ND		10	ug/L	1	10/01/2015 18:59	83160
Surrogate: Dibromofluoromethane	102		85-115	%REC	1	10/01/2015 18:59	83160
Surrogate: 1,2-Dichloroethane-d4	102		70-120	%REC	1	10/01/2015 18:59	83160
Surrogate: Toluene-d8	101		85-120	%REC	1	10/01/2015 18:59	83160
Surrogate: Bromofluorobenzene	105		75-120	%REC	1	10/01/2015 18:59	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK
Lab ID: P1457-03
Project: Barrington, RI site
Collection Date: 09/29/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Chloromethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Vinyl chloride	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Bromomethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Chloroethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Trichlorofluoromethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,1-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Acetone	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Carbon disulfide	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Methylene chloride	ND		5.0	ug/L	1	10/01/2015 19:24	83160
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,1-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
2-Butanone	ND		5.0	ug/L	1	10/01/2015 19:24	83160
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
2,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Bromochloromethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Chloroform	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,1-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Carbon tetrachloride	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2-Dichloroethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Benzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Trichloroethene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Dibromomethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Bromodichloromethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Toluene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,3-Dichloropropane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Tetrachloroethene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
2-Hexanone	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Dibromochloromethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2-Dibromoethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Chlorobenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK
Lab ID: P1457-03
Project: Barrington, RI site
Collection Date: 09/29/15 10:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Ethylbenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
m,p-Xylene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
o-Xylene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Xylene (Total)	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Styrene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Bromoform	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Isopropylbenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Bromobenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
n-Propylbenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
2-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
4-Chlorotoluene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
tert-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
sec-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
4-Isopropyltoluene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
n-Butylbenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Hexachlorobutadiene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Naphthalene	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Diethyl ether	ND		5.0	ug/L	1	10/01/2015 19:24	83160
Tetrahydrofuran	ND		10	ug/L	1	10/01/2015 19:24	83160
Surrogate: Dibromofluoromethane	104		85-115	%REC	1	10/01/2015 19:24	83160
Surrogate: 1,2-Dichloroethane-d4	106		70-120	%REC	1	10/01/2015 19:24	83160
Surrogate: Toluene-d8	101		85-120	%REC	1	10/01/2015 19:24	83160
Surrogate: Bromofluorobenzene	104		75-120	%REC	1	10/01/2015 19:24	83160

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83160** SampType: **MBLK** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**

Client ID: **MB-83160** Batch ID: **83160** Units: **ug/L** Analysis Date **10/01/15 10:55** SeqNo: **2311466**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.66	1.0									
Chloromethane	ND	0.26	1.0									
Vinyl chloride	ND	0.50	1.0									
Bromomethane	ND	0.80	1.0									
Chloroethane	ND	0.48	1.0									
Trichlorofluoromethane	ND	0.54	1.0									
1,1-Dichloroethene	ND	0.39	1.0									
Acetone	ND	2.2	5.0									
Carbon disulfide	ND	0.34	1.0									
Methylene chloride	ND	0.41	1.0									
trans-1,2-Dichloroethene	ND	0.65	1.0									
Methyl tert-butyl ether	ND	0.24	1.0									
1,1-Dichloroethane	ND	0.25	1.0									
2-Butanone	ND	2.1	5.0									
cis-1,2-Dichloroethene	ND	0.48	1.0									
2,2-Dichloropropane	ND	0.30	1.0									
Bromochloromethane	ND	0.43	1.0									
Chloroform	ND	0.33	1.0									
1,1,1-Trichloroethane	ND	0.50	1.0									
1,1-Dichloropropene	ND	0.50	1.0									
Carbon tetrachloride	ND	0.54	1.0									
1,2-Dichloroethane	ND	0.41	1.0									
Benzene	ND	0.33	1.0									
Trichloroethene	ND	0.36	1.0									
1,2-Dichloropropane	ND	0.61	1.0									
Dibromomethane	ND	0.49	1.0									
Bromodichloromethane	ND	0.26	1.0									
cis-1,3-Dichloropropene	ND	0.45	1.0									
4-Methyl-2-pentanone	ND	0.82	5.0									
Toluene	ND	0.32	1.0									
trans-1,3-Dichloropropene	ND	0.48	1.0									
1,1,2-Trichloroethane	ND	0.38	1.0									
1,3-Dichloropropane	ND	0.22	1.0									
Tetrachloroethene	ND	0.65	1.0									
2-Hexanone	ND	1.7	5.0									
Dibromochloromethane	ND	0.57	1.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83160** SampType: **MBLK** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**
Client ID: **MB-83160** Batch ID: **83160** Units: **ug/L** Analysis Date **10/01/15 10:55** SeqNo: **2311466**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.50	1.0									
Chlorobenzene	ND	0.26	1.0									
1,1,1,2-Tetrachloroethane	ND	0.41	1.0									
Ethylbenzene	ND	0.35	1.0									
m,p-Xylene	ND	0.77	1.0									
o-Xylene	ND	0.36	1.0									
Xylene (Total)	ND	0.36	1.0									
Styrene	ND	0.50	1.0									
Bromoform	ND	0.77	1.0									
Isopropylbenzene	ND	0.38	1.0									
1,1,2,2-Tetrachloroethane	ND	0.42	1.0									
Bromobenzene	ND	0.36	1.0									
1,2,3-Trichloropropane	ND	0.82	1.0									
n-Propylbenzene	ND	0.64	1.0									
2-Chlorotoluene	ND	0.54	1.0									
1,3,5-Trimethylbenzene	ND	0.45	1.0									
4-Chlorotoluene	ND	0.45	1.0									
tert-Butylbenzene	ND	0.37	1.0									
1,2,4-Trimethylbenzene	ND	0.40	1.0									
sec-Butylbenzene	ND	0.28	1.0									
4-Isopropyltoluene	ND	0.46	1.0									
1,3-Dichlorobenzene	ND	0.29	1.0									
1,4-Dichlorobenzene	ND	0.40	1.0									
n-Butylbenzene	ND	0.33	1.0									
1,2-Dichlorobenzene	ND	0.33	1.0									
1,2-Dibromo-3-chloropropane	ND	0.75	1.0									
1,2,4-Trichlorobenzene	ND	0.26	1.0									
Hexachlorobutadiene	ND	0.41	1.0									
1,2,3-Trichlorobenzene	ND	0.33	1.0									
Naphthalene	ND	0.80	1.0									
Diethyl ether	ND	0.25	1.0									
Tetrahydrofuran	ND	2.1	10									
Surrogate: Dibromofluoromethane	50.58		5.0	50.00	0	101	85	115		0		
Surrogate: 1,2-Dichloroethane-d4	48.12		5.0	50.00	0	96.2	70	120		0		
Surrogate: Toluene-d8	48.48		5.0	50.00	0	97.0	85	120		0		

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83160** SampType: **MBLK** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**

Client ID: **MB-83160** Batch ID: **83160** Units: **ug/L** Analysis Date **10/01/15 10:55** SeqNo: **2311466**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Bromofluorobenzene	49.56		5.0	50.00	0	99.1	75	120	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83160** SampType: **LCS** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**

Client ID: **LCS-83160** Batch ID: **83160** Units: **ug/L** Analysis Date **10/01/15 10:03** SeqNo: **2311465**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	42.42	0.66	5.0	50.00	0	84.8	30	155	0			
Chloromethane	55.44	0.26	5.0	50.00	0	111	40	125	0			
Vinyl chloride	52.26	0.50	5.0	50.00	0	105	50	145	0			
Bromomethane	55.47	0.80	5.0	50.00	0	111	30	145	0			
Chloroethane	51.42	0.48	5.0	50.00	0	103	60	135	0			
Trichlorofluoromethane	50.58	0.54	5.0	50.00	0	101	60	145	0			
1,1-Dichloroethene	51.73	0.39	5.0	50.00	0	103	70	130	0			
Acetone	59.12	2.2	5.0	50.00	0	118	40	140	0			
Carbon disulfide	55.77	0.34	5.0	50.00	0	112	35	160	0			
Methylene chloride	50.87	0.41	5.0	50.00	0	102	55	140	0			
trans-1,2-Dichloroethene	53.00	0.65	5.0	50.00	0	106	60	140	0			
Methyl tert-butyl ether	53.51	0.24	5.0	50.00	0	107	65	125	0			
1,1-Dichloroethane	52.63	0.25	5.0	50.00	0	105	70	135	0			
2-Butanone	55.23	2.1	5.0	50.00	0	110	30	150	0			
cis-1,2-Dichloroethene	51.53	0.48	5.0	50.00	0	103	70	125	0			
2,2-Dichloropropane	52.24	0.30	5.0	50.00	0	104	70	135	0			
Bromochloromethane	53.38	0.43	5.0	50.00	0	107	65	130	0			
Chloroform	54.33	0.33	5.0	50.00	0	109	65	135	0			
1,1,1-Trichloroethane	52.97	0.50	5.0	50.00	0	106	65	130	0			
1,1-Dichloropropene	52.85	0.50	5.0	50.00	0	106	75	130	0			
Carbon tetrachloride	51.64	0.54	5.0	50.00	0	103	65	140	0			
1,2-Dichloroethane	56.10	0.41	5.0	50.00	0	112	70	130	0			
Benzene	54.98	0.33	5.0	50.00	0	110	80	120	0			
Trichloroethene	52.72	0.36	5.0	50.00	0	105	70	125	0			
1,2-Dichloropropane	53.93	0.61	5.0	50.00	0	108	75	125	0			
Dibromomethane	54.67	0.49	5.0	50.00	0	109	75	125	0			
Bromodichloromethane	55.06	0.26	5.0	50.00	0	110	75	120	0			
cis-1,3-Dichloropropene	55.77	0.45	5.0	50.00	0	112	70	130	0			
4-Methyl-2-pentanone	55.84	0.82	5.0	50.00	0	112	60	135	0			
Toluene	53.00	0.32	5.0	50.00	0	106	75	120	0			
trans-1,3-Dichloropropene	53.24	0.48	5.0	50.00	0	106	55	140	0			
1,1,2-Trichloroethane	55.69	0.38	5.0	50.00	0	111	75	125	0			
1,3-Dichloropropane	52.86	0.22	5.0	50.00	0	106	75	125	0			
Tetrachloroethene	50.20	0.65	5.0	50.00	0	100	45	150	0			
2-Hexanone	54.50	1.7	5.0	50.00	0	109	55	130	0			
Dibromochloromethane	53.00	0.57	5.0	50.00	0	106	60	135	0			
1,2-Dibromoethane	51.81	0.50	5.0	50.00	0	104	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83160** SampType: **LCS** TestCode: **SW8260_W** Prep Date: **10/01/15 8:20** Run ID: **V5_151001A**
Client ID: **LCS-83160** Batch ID: **83160** Units: **ug/L** Analysis Date **10/01/15 10:03** SeqNo: **2311465**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chlorobenzene	51.15	0.26	5.0	50.00	0	102	80	120	0			
1,1,1,2-Tetrachloroethane	50.26	0.41	5.0	50.00	0	101	80	130	0			
Ethylbenzene	52.03	0.35	5.0	50.00	0	104	75	125	0			
m,p-Xylene	104.9	0.77	5.0	100.0	0	105	75	130	0			
o-Xylene	53.90	0.36	5.0	50.00	0	108	80	120	0			
Xylene (Total)	158.8	0.36	5.0	150.0	0	106	81	121	0			
Styrene	53.55	0.50	5.0	50.00	0	107	65	135	0			
Bromoform	55.29	0.77	5.0	50.00	0	111	70	130	0			
Isopropylbenzene	52.42	0.38	5.0	50.00	0	105	75	125	0			
1,1,2,2-Tetrachloroethane	52.61	0.42	5.0	50.00	0	105	65	130	0			
Bromobenzene	52.36	0.36	5.0	50.00	0	105	75	125	0			
1,2,3-Trichloropropane	55.20	0.82	5.0	50.00	0	110	75	125	0			
n-Propylbenzene	53.59	0.64	5.0	50.00	0	107	70	130	0			
2-Chlorotoluene	52.47	0.54	5.0	50.00	0	105	75	125	0			
1,3,5-Trimethylbenzene	53.44	0.45	5.0	50.00	0	107	75	130	0			
4-Chlorotoluene	54.21	0.45	5.0	50.00	0	108	75	130	0			
tert-Butylbenzene	52.22	0.37	5.0	50.00	0	104	70	130	0			
1,2,4-Trimethylbenzene	53.47	0.40	5.0	50.00	0	107	75	130	0			
sec-Butylbenzene	51.50	0.28	5.0	50.00	0	103	70	125	0			
4-Isopropyltoluene	53.53	0.46	5.0	50.00	0	107	75	130	0			
1,3-Dichlorobenzene	52.93	0.29	5.0	50.00	0	106	75	125	0			
1,4-Dichlorobenzene	50.59	0.40	5.0	50.00	0	101	75	125	0			
n-Butylbenzene	53.02	0.33	5.0	50.00	0	106	70	135	0			
1,2-Dichlorobenzene	52.11	0.33	5.0	50.00	0	104	70	120	0			
1,2-Dibromo-3-chloropropane	52.34	0.75	5.0	50.00	0	105	50	130	0			
1,2,4-Trichlorobenzene	54.96	0.26	5.0	50.00	0	110	65	135	0			
Hexachlorobutadiene	53.38	0.41	5.0	50.00	0	107	50	140	0			
1,2,3-Trichlorobenzene	55.10	0.33	5.0	50.00	0	110	55	140	0			
Naphthalene	54.50	0.80	5.0	50.00	0	109	55	140	0			
Diethyl ether	53.56	0.25	5.0	50.00	0	107	70	130	0			
Tetrahydrofuran	115.7	2.1	10	100.0	0	116	76	126	0			
Surrogate: Dibromofluoromethane	52.22		5.0	50.00	0	104	85	115	0			
Surrogate: 1,2-Dichloroethane-d4	52.74		5.0	50.00	0	105	70	120	0			
Surrogate: Toluene-d8	50.08		5.0	50.00	0	100	85	120	0			
Surrogate: Bromofluorobenzene	53.30		5.0	50.00	0	107	75	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_W**
Gasoline Range Organics	ND		100	ug/L	1	10/02/2015 14:52	83193
Surrogate: Bromofluorobenzene	104		87-112	%REC	1	10/02/2015 14:52	83193

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_W**
Gasoline Range Organics	ND		100	ug/L	1	10/02/2015 15:15	83193
Surrogate: Bromofluorobenzene	101		87-112	%REC	1	10/02/2015 15:15	83193

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

GRO_W

SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID

Sample ID: **MB-83193** SampType: **MBLK** TestCode: **GRO_W** Prep Date: **10/02/15 9:33** Run ID: **V4_151002A**
Client ID: **MB-83193** Batch ID: **83193** Units: **ug/L** Analysis Date **10/02/15 11:06** SeqNo: **2313641**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.8	100									
Surrogate: Bromofluorobenzene	20.53		5.0	20.00	0	103	87	112	0			

Sample ID: **LCS-83193** SampType: **LCS** TestCode: **GRO_W** Prep Date: **10/02/15 9:33** Run ID: **V4_151002A**
Client ID: **LCS-83193** Batch ID: **83193** Units: **ug/L** Analysis Date **10/02/15 10:03** SeqNo: **2313640**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	489.1	5.8	100	500.0	0	97.8	80	120	0			
Surrogate: Bromofluorobenzene	22.14		5.0	20.00	0	111	87	112	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1 **Project:** Barrington, RI site
Lab ID: P1457-01 **Collection Date:** 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Phenol	ND		10	ug/L	1	10/03/2015 4:08	83155
Bis(2-chloroethyl)ether	ND		10	ug/L	1	10/03/2015 4:08	83155
2-Chlorophenol	ND		10	ug/L	1	10/03/2015 4:08	83155
1,3-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 4:08	83155
1,4-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 4:08	83155
1,2-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 4:08	83155
2-Methylphenol	ND		10	ug/L	1	10/03/2015 4:08	83155
4-Methylphenol	ND		10	ug/L	1	10/03/2015 4:08	83155
N-Nitroso-di-n-propylamine	ND		10	ug/L	1	10/03/2015 4:08	83155
Hexachloroethane	ND		10	ug/L	1	10/03/2015 4:08	83155
Nitrobenzene	ND		10	ug/L	1	10/03/2015 4:08	83155
Isophorone	ND		10	ug/L	1	10/03/2015 4:08	83155
2-Nitrophenol	ND		10	ug/L	1	10/03/2015 4:08	83155
2,4-Dimethylphenol	ND		10	ug/L	1	10/03/2015 4:08	83155
2,4-Dichlorophenol	ND		10	ug/L	1	10/03/2015 4:08	83155
1,2,4-Trichlorobenzene	ND		10	ug/L	1	10/03/2015 4:08	83155
Naphthalene	ND		10	ug/L	1	10/03/2015 4:08	83155
4-Chloroaniline	ND		10	ug/L	1	10/03/2015 4:08	83155
Bis(2-chloroethoxy)methane	ND		10	ug/L	1	10/03/2015 4:08	83155
Hexachlorobutadiene	ND		10	ug/L	1	10/03/2015 4:08	83155
4-Chloro-3-methylphenol	ND		10	ug/L	1	10/03/2015 4:08	83155
2-Methylnaphthalene	ND		10	ug/L	1	10/03/2015 4:08	83155
Hexachlorocyclopentadiene	ND		10	ug/L	1	10/03/2015 4:08	83155
2,4,6-Trichlorophenol	ND		10	ug/L	1	10/03/2015 4:08	83155
2,4,5-Trichlorophenol	ND		20	ug/L	1	10/03/2015 4:08	83155
2-Chloronaphthalene	ND		10	ug/L	1	10/03/2015 4:08	83155
2-Nitroaniline	ND		20	ug/L	1	10/03/2015 4:08	83155
Dimethylphthalate	2.7	J	10	ug/L	1	10/03/2015 4:08	83155
Acenaphthylene	ND		10	ug/L	1	10/03/2015 4:08	83155
2,6-Dinitrotoluene	ND		10	ug/L	1	10/03/2015 4:08	83155
3-Nitroaniline	ND		20	ug/L	1	10/03/2015 4:08	83155
Acenaphthene	ND		10	ug/L	1	10/03/2015 4:08	83155
2,4-Dinitrophenol	ND		20	ug/L	1	10/03/2015 4:08	83155
4-Nitrophenol	ND		20	ug/L	1	10/03/2015 4:08	83155
Dibenzofuran	ND		10	ug/L	1	10/03/2015 4:08	83155
2,4-Dinitrotoluene	ND		10	ug/L	1	10/03/2015 4:08	83155
Diethylphthalate	ND		10	ug/L	1	10/03/2015 4:08	83155
4-Chlorophenyl-phenylether	ND		10	ug/L	1	10/03/2015 4:08	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1 **Project:** Barrington, RI site
Lab ID: P1457-01 **Collection Date:** 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Fluorene	ND		10	ug/L	1	10/03/2015 4:08	83155
4-Nitroaniline	ND		20	ug/L	1	10/03/2015 4:08	83155
4,6-Dinitro-2-methylphenol	ND		20	ug/L	1	10/03/2015 4:08	83155
N-Nitrosodiphenylamine	ND		10	ug/L	1	10/03/2015 4:08	83155
4-Bromophenyl-phenylether	ND		10	ug/L	1	10/03/2015 4:08	83155
Hexachlorobenzene	ND		10	ug/L	1	10/03/2015 4:08	83155
Pentachlorophenol	ND		20	ug/L	1	10/03/2015 4:08	83155
Phenanthrene	ND		10	ug/L	1	10/03/2015 4:08	83155
Anthracene	ND		10	ug/L	1	10/03/2015 4:08	83155
Carbazole	ND		10	ug/L	1	10/03/2015 4:08	83155
Di-n-butylphthalate	ND		10	ug/L	1	10/03/2015 4:08	83155
Fluoranthene	ND		10	ug/L	1	10/03/2015 4:08	83155
Pyrene	ND		10	ug/L	1	10/03/2015 4:08	83155
Butylbenzylphthalate	ND		10	ug/L	1	10/03/2015 4:08	83155
3,3´-Dichlorobenzidine	ND		10	ug/L	1	10/03/2015 4:08	83155
Benzo(a)anthracene	ND		10	ug/L	1	10/03/2015 4:08	83155
Chrysene	ND		10	ug/L	1	10/03/2015 4:08	83155
Bis(2-ethylhexyl)phthalate	4.4	J	10	ug/L	1	10/03/2015 4:08	83155
Di-n-octylphthalate	ND		10	ug/L	1	10/03/2015 4:08	83155
Benzo(b)fluoranthene	ND		10	ug/L	1	10/03/2015 4:08	83155
Benzo(k)fluoranthene	ND		10	ug/L	1	10/03/2015 4:08	83155
Benzo(a)pyrene	ND		10	ug/L	1	10/03/2015 4:08	83155
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	1	10/03/2015 4:08	83155
Dibenzo(a,h)anthracene	ND		10	ug/L	1	10/03/2015 4:08	83155
Benzo(g,h,i)perylene	ND		10	ug/L	1	10/03/2015 4:08	83155
1,1´-Biphenyl	ND		10	ug/L	1	10/03/2015 4:08	83155
3-Methylphenol + 4-Methylphenol	ND		10	ug/L	1	10/03/2015 4:08	83155
Acetophenone	ND		10	ug/L	1	10/03/2015 4:08	83155
Aniline	ND		10	ug/L	1	10/03/2015 4:08	83155
Azobenzene	ND		10	ug/L	1	10/03/2015 4:08	83155
Benzidine	ND		10	ug/L	1	10/03/2015 4:08	83155
Benzoic acid	ND		20	ug/L	1	10/03/2015 4:08	83155
Benzyl alcohol	ND		10	ug/L	1	10/03/2015 4:08	83155
Bis(2-chloroisopropyl)ether	ND		10	ug/L	1	10/03/2015 4:08	83155
N-Nitrosodimethylamine	ND		10	ug/L	1	10/03/2015 4:08	83155
Surrogate: Nitrobenzene-d5	105		40-110	%REC	1	10/03/2015 4:08	83155
Surrogate: 2-Fluorobiphenyl	99.6		50-110	%REC	1	10/03/2015 4:08	83155
Surrogate: Terphenyl-d14	121		50-135	%REC	1	10/03/2015 4:08	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Surrogate: Phenol-d5	20.2		10-115	%REC	1	10/03/2015 4:08	83155
Surrogate: 2-Fluorophenol	35.1		20-110	%REC	1	10/03/2015 4:08	83155
Surrogate: 2,4,6-Tribromophenol	88.0		40-125	%REC	1	10/03/2015 4:08	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Phenol	ND		10	ug/L	1	10/03/2015 4:34	83155
Bis(2-chloroethyl)ether	ND		10	ug/L	1	10/03/2015 4:34	83155
2-Chlorophenol	ND		10	ug/L	1	10/03/2015 4:34	83155
1,3-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 4:34	83155
1,4-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 4:34	83155
1,2-Dichlorobenzene	ND		10	ug/L	1	10/03/2015 4:34	83155
2-Methylphenol	ND		10	ug/L	1	10/03/2015 4:34	83155
4-Methylphenol	ND		10	ug/L	1	10/03/2015 4:34	83155
N-Nitroso-di-n-propylamine	ND		10	ug/L	1	10/03/2015 4:34	83155
Hexachloroethane	ND		10	ug/L	1	10/03/2015 4:34	83155
Nitrobenzene	ND		10	ug/L	1	10/03/2015 4:34	83155
Isophorone	ND		10	ug/L	1	10/03/2015 4:34	83155
2-Nitrophenol	ND		10	ug/L	1	10/03/2015 4:34	83155
2,4-Dimethylphenol	ND		10	ug/L	1	10/03/2015 4:34	83155
2,4-Dichlorophenol	ND		10	ug/L	1	10/03/2015 4:34	83155
1,2,4-Trichlorobenzene	ND		10	ug/L	1	10/03/2015 4:34	83155
Naphthalene	ND		10	ug/L	1	10/03/2015 4:34	83155
4-Chloroaniline	ND		10	ug/L	1	10/03/2015 4:34	83155
Bis(2-chloroethoxy)methane	ND		10	ug/L	1	10/03/2015 4:34	83155
Hexachlorobutadiene	ND		10	ug/L	1	10/03/2015 4:34	83155
4-Chloro-3-methylphenol	ND		10	ug/L	1	10/03/2015 4:34	83155
2-Methylnaphthalene	ND		10	ug/L	1	10/03/2015 4:34	83155
Hexachlorocyclopentadiene	ND		10	ug/L	1	10/03/2015 4:34	83155
2,4,6-Trichlorophenol	ND		10	ug/L	1	10/03/2015 4:34	83155
2,4,5-Trichlorophenol	ND		20	ug/L	1	10/03/2015 4:34	83155
2-Chloronaphthalene	ND		10	ug/L	1	10/03/2015 4:34	83155
2-Nitroaniline	ND		20	ug/L	1	10/03/2015 4:34	83155
Dimethylphthalate	1.9	J	10	ug/L	1	10/03/2015 4:34	83155
Acenaphthylene	ND		10	ug/L	1	10/03/2015 4:34	83155
2,6-Dinitrotoluene	ND		10	ug/L	1	10/03/2015 4:34	83155
3-Nitroaniline	ND		20	ug/L	1	10/03/2015 4:34	83155
Acenaphthene	ND		10	ug/L	1	10/03/2015 4:34	83155
2,4-Dinitrophenol	ND		20	ug/L	1	10/03/2015 4:34	83155
4-Nitrophenol	ND		20	ug/L	1	10/03/2015 4:34	83155
Dibenzofuran	ND		10	ug/L	1	10/03/2015 4:34	83155
2,4-Dinitrotoluene	ND		10	ug/L	1	10/03/2015 4:34	83155
Diethylphthalate	ND		10	ug/L	1	10/03/2015 4:34	83155
4-Chlorophenyl-phenylether	ND		10	ug/L	1	10/03/2015 4:34	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Fluorene	ND		10	ug/L	1	10/03/2015 4:34	83155
4-Nitroaniline	ND		20	ug/L	1	10/03/2015 4:34	83155
4,6-Dinitro-2-methylphenol	ND		20	ug/L	1	10/03/2015 4:34	83155
N-Nitrosodiphenylamine	ND		10	ug/L	1	10/03/2015 4:34	83155
4-Bromophenyl-phenylether	ND		10	ug/L	1	10/03/2015 4:34	83155
Hexachlorobenzene	ND		10	ug/L	1	10/03/2015 4:34	83155
Pentachlorophenol	ND		20	ug/L	1	10/03/2015 4:34	83155
Phenanthrene	ND		10	ug/L	1	10/03/2015 4:34	83155
Anthracene	ND		10	ug/L	1	10/03/2015 4:34	83155
Carbazole	ND		10	ug/L	1	10/03/2015 4:34	83155
Di-n-butylphthalate	ND		10	ug/L	1	10/03/2015 4:34	83155
Fluoranthene	ND		10	ug/L	1	10/03/2015 4:34	83155
Pyrene	ND		10	ug/L	1	10/03/2015 4:34	83155
Butylbenzylphthalate	ND		10	ug/L	1	10/03/2015 4:34	83155
3,3´-Dichlorobenzidine	ND		10	ug/L	1	10/03/2015 4:34	83155
Benzo(a)anthracene	ND		10	ug/L	1	10/03/2015 4:34	83155
Chrysene	ND		10	ug/L	1	10/03/2015 4:34	83155
Bis(2-ethylhexyl)phthalate	ND		10	ug/L	1	10/03/2015 4:34	83155
Di-n-octylphthalate	ND		10	ug/L	1	10/03/2015 4:34	83155
Benzo(b)fluoranthene	ND		10	ug/L	1	10/03/2015 4:34	83155
Benzo(k)fluoranthene	ND		10	ug/L	1	10/03/2015 4:34	83155
Benzo(a)pyrene	ND		10	ug/L	1	10/03/2015 4:34	83155
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	1	10/03/2015 4:34	83155
Dibenzo(a,h)anthracene	ND		10	ug/L	1	10/03/2015 4:34	83155
Benzo(g,h,i)perylene	ND		10	ug/L	1	10/03/2015 4:34	83155
1,1´-Biphenyl	ND		10	ug/L	1	10/03/2015 4:34	83155
3-Methylphenol + 4-Methylphenol	ND		10	ug/L	1	10/03/2015 4:34	83155
Acetophenone	ND		10	ug/L	1	10/03/2015 4:34	83155
Aniline	ND		10	ug/L	1	10/03/2015 4:34	83155
Azobenzene	ND		10	ug/L	1	10/03/2015 4:34	83155
Benzidine	ND		10	ug/L	1	10/03/2015 4:34	83155
Benzoic acid	ND		20	ug/L	1	10/03/2015 4:34	83155
Benzyl alcohol	ND		10	ug/L	1	10/03/2015 4:34	83155
Bis(2-chloroisopropyl)ether	ND		10	ug/L	1	10/03/2015 4:34	83155
N-Nitrosodimethylamine	ND		10	ug/L	1	10/03/2015 4:34	83155
Surrogate: Nitrobenzene-d5	89.3		40-110	%REC	1	10/03/2015 4:34	83155
Surrogate: 2-Fluorobiphenyl	93.1		50-110	%REC	1	10/03/2015 4:34	83155
Surrogate: Terphenyl-d14	122		50-135	%REC	1	10/03/2015 4:34	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Surrogate: Phenol-d5	21.5		10-115	%REC	1	10/03/2015 4:34	83155
Surrogate: 2-Fluorophenol	34.8		20-110	%REC	1	10/03/2015 4:34	83155
Surrogate: 2,4,6-Tribromophenol	88.5		40-125	%REC	1	10/03/2015 4:34	83155

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83155** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**

Client ID: **MB-83155** Batch ID: **83155** Units: **ug/L** Analysis Date **10/03/15 1:58** SeqNo: **2312671**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	0.75	10									
Bis(2-chloroethyl)ether	ND	0.75	10									
2-Chlorophenol	ND	0.61	10									
1,3-Dichlorobenzene	ND	0.71	10									
1,4-Dichlorobenzene	ND	1.1	10									
1,2-Dichlorobenzene	ND	0.84	10									
2-Methylphenol	ND	0.96	10									
4-Methylphenol	ND	1.4	10									
N-Nitroso-di-n-propylamine	ND	0.63	10									
Hexachloroethane	ND	0.55	10									
Nitrobenzene	ND	1.6	10									
Isophorone	ND	0.47	10									
2-Nitrophenol	ND	0.60	10									
2,4-Dimethylphenol	ND	1.8	10									
2,4-Dichlorophenol	ND	0.57	10									
1,2,4-Trichlorobenzene	ND	0.93	10									
Naphthalene	ND	0.96	10									
4-Chloroaniline	ND	2.0	10									
Bis(2-chloroethoxy)methane	ND	1.1	10									
Hexachlorobutadiene	ND	0.75	10									
4-Chloro-3-methylphenol	ND	0.60	10									
2-Methylnaphthalene	ND	0.94	10									
Hexachlorocyclopentadiene	ND	1.0	10									
2,4,6-Trichlorophenol	ND	0.53	10									
2,4,5-Trichlorophenol	ND	0.26	20									
2-Chloronaphthalene	ND	0.81	10									
2-Nitroaniline	ND	0.71	20									
Dimethylphthalate	ND	0.37	10									
Acenaphthylene	ND	0.42	10									
2,6-Dinitrotoluene	ND	0.52	10									
3-Nitroaniline	ND	0.97	20									
Acenaphthene	ND	0.65	10									
2,4-Dinitrophenol	ND	3.5	20									
4-Nitrophenol	ND	0.53	20									
Dibenzofuran	ND	0.52	10									
2,4-Dinitrotoluene	ND	0.41	10									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83155** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **MB-83155** Batch ID: **83155** Units: **ug/L** Analysis Date **10/03/15 1:58** SeqNo: **2312671**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylphthalate	ND	0.45	10									
4-Chlorophenyl-phenylether	ND	0.41	10									
Fluorene	ND	0.44	10									
4-Nitroaniline	ND	0.96	20									
4,6-Dinitro-2-methylphenol	ND	0.79	20									
N-Nitrosodiphenylamine	ND	1.1	10									
4-Bromophenyl-phenylether	ND	0.54	10									
Hexachlorobenzene	ND	0.44	10									
Pentachlorophenol	ND	1.7	20									
Phenanthrene	ND	0.45	10									
Anthracene	ND	0.48	10									
Carbazole	ND	0.64	10									
Di-n-butylphthalate	ND	0.48	10									
Fluoranthene	ND	0.33	10									
Pyrene	ND	0.44	10									
Butylbenzylphthalate	ND	0.32	10									
3,3´-Dichlorobenzidine	ND	1.7	10									
Benzo(a)anthracene	ND	0.40	10									
Chrysene	ND	0.42	10									
Bis(2-ethylhexyl)phthalate	ND	1.3	10									
Di-n-octylphthalate	ND	0.47	10									
Benzo(b)fluoranthene	ND	0.94	10									
Benzo(k)fluoranthene	ND	1.2	10									
Benzo(a)pyrene	ND	1.2	10									
Indeno(1,2,3-cd)pyrene	ND	0.38	10									
Dibenzo(a,h)anthracene	ND	0.44	10									
Benzo(g,h,i)perylene	ND	0.39	10									
1,1´-Biphenyl	ND	0.65	10									
3-Methylphenol + 4-Methylphenol	ND	1.4	10									
Acetophenone	ND	0.51	10									
Aniline	ND	1.3	10									
Azobenzene	ND	0.71	10									
Benzidine	ND	1.8	10									
Benzoic acid	ND	2.0	20									
Benzyl alcohol	ND	0.87	10									
Bis(2-chloroisopropyl)ether	ND	1.0	10									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83155** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**

Client ID: **MB-83155** Batch ID: **83155** Units: **ug/L** Analysis Date **10/03/15 1:58** SeqNo: **2312671**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
N-Nitrosodimethylamine	ND	0.56	10									
Surrogate: Nitrobenzene-d5	49.79		10	50.00	0	99.6	40	110	0			
Surrogate: 2-Fluorobiphenyl	49.51		10	50.00	0	99.0	50	110	0			
Surrogate: Terphenyl-d14	59.97		10	50.00	0	120	50	135	0			
Surrogate: Phenol-d5	55.49		10	50.00	0	111	10	115	0			
Surrogate: 2-Fluorophenol	50.19		10	50.00	0	100	20	110	0			
Surrogate: 2,4,6-Tribromophenol	37.91		10	50.00	0	75.8	40	125	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83155** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**

Client ID: **LCS-83155** Batch ID: **83155** Units: **ug/L** Analysis Date **10/03/15 2:24** SeqNo: **2312673**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	40.88	0.75	10	50.00	0	81.8	0	115	0			
Bis(2-chloroethyl)ether	39.76	0.75	10	50.00	0	79.5	35	110	0			
2-Chlorophenol	39.36	0.61	10	50.00	0	78.7	35	105	0			
1,3-Dichlorobenzene	36.59	0.71	10	50.00	0	73.2	30	100	0			
1,4-Dichlorobenzene	36.16	1.1	10	50.00	0	72.3	30	100	0			
1,2-Dichlorobenzene	38.17	0.84	10	50.00	0	76.3	35	100	0			
2-Methylphenol	40.01	0.96	10	50.00	0	80.0	40	110	0			
4-Methylphenol	41.97	1.4	10	50.00	0	83.9	30	110	0			
N-Nitroso-di-n-propylamine	39.80	0.63	10	50.00	0	79.6	35	130	0			
Hexachloroethane	35.92	0.55	10	50.00	0	71.8	30	95	0			
Nitrobenzene	36.73	1.6	10	50.00	0	73.5	45	110	0			
Isophorone	36.54	0.47	10	50.00	0	73.1	50	110	0			
2-Nitrophenol	36.07	0.60	10	50.00	0	72.1	40	115	0			
2,4-Dimethylphenol	37.17	1.8	10	50.00	0	74.3	30	110	0			
2,4-Dichlorophenol	38.45	0.57	10	50.00	0	76.9	50	105	0			
1,2,4-Trichlorobenzene	35.41	0.93	10	50.00	0	70.8	35	105	0			
Naphthalene	37.33	0.96	10	50.00	0	74.7	40	100	0			
4-Chloroaniline	34.71	2.0	10	50.00	0	69.4	15	110	0			
Bis(2-chloroethoxy)methane	37.67	1.1	10	50.00	0	75.3	45	105	0			
Hexachlorobutadiene	34.73	0.75	10	50.00	0	69.5	25	105	0			
4-Chloro-3-methylphenol	39.64	0.60	10	50.00	0	79.3	45	110	0			
2-Methylnaphthalene	36.80	0.94	10	50.00	0	73.6	45	105	0			
Hexachlorocyclopentadiene	26.80	1.0	10	50.00	0	53.6	27	147	0			
2,4,6-Trichlorophenol	37.65	0.53	10	50.00	0	75.3	50	115	0			
2,4,5-Trichlorophenol	41.21	0.26	20	50.00	0	82.4	50	110	0			
2-Chloronaphthalene	38.12	0.81	10	50.00	0	76.2	50	105	0			
2-Nitroaniline	40.44	0.71	20	50.00	0	80.9	50	115	0			
Dimethylphthalate	41.75	0.37	10	50.00	0	83.5	25	125	0			
Acenaphthylene	39.65	0.42	10	50.00	0	79.3	50	105	0			
2,6-Dinitrotoluene	40.68	0.52	10	50.00	0	81.4	50	115	0			
3-Nitroaniline	41.01	0.97	20	50.00	0	82.0	20	125	0			
Acenaphthene	39.82	0.65	10	50.00	0	79.6	45	110	0			
2,4-Dinitrophenol	19.99	3.5	20	50.00	0	40.0	15	140	0			J
4-Nitrophenol	40.87	0.53	20	50.00	0	81.7	0	125	0			
Dibenzofuran	40.34	0.52	10	50.00	0	80.7	55	105	0			
2,4-Dinitrotoluene	43.46	0.41	10	50.00	0	86.9	50	120	0			
Diethylphthalate	43.15	0.45	10	50.00	0	86.3	40	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83155** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**
Client ID: **LCS-83155** Batch ID: **83155** Units: **ug/L** Analysis Date **10/03/15 2:24** SeqNo: **2312673**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Chlorophenyl-phenylether	40.30	0.41	10	50.00	0	80.6	50	110	0			
Fluorene	40.77	0.44	10	50.00	0	81.5	50	110	0			
4-Nitroaniline	47.18	0.96	20	50.00	0	94.4	35	120	0			
4,6-Dinitro-2-methylphenol	32.65	0.79	20	50.00	0	65.3	40	130	0			
N-Nitrosodiphenylamine	39.72	1.1	10	50.00	0	79.4	50	110	0			
4-Bromophenyl-phenylether	37.29	0.54	10	50.00	0	74.6	50	115	0			
Hexachlorobenzene	34.18	0.44	10	50.00	0	68.4	50	110	0			
Pentachlorophenol	20.17	1.7	20	50.00	0	40.3	40	115	0			
Phenanthrene	40.26	0.45	10	50.00	0	80.5	50	115	0			
Anthracene	40.63	0.48	10	50.00	0	81.3	55	110	0			
Carbazole	41.66	0.64	10	50.00	0	83.3	50	115	0			
Di-n-butylphthalate	42.27	0.48	10	50.00	0	84.5	55	115	0			
Fluoranthene	42.49	0.33	10	50.00	0	85.0	55	115	0			
Pyrene	40.17	0.44	10	50.00	0	80.3	50	130	0			
Butylbenzylphthalate	42.23	0.32	10	50.00	0	84.5	45	115	0			
3,3´-Dichlorobenzidine	42.61	1.7	10	50.00	0	85.2	20	110	0			
Benzo(a)anthracene	43.92	0.40	10	50.00	0	87.8	55	110	0			
Chrysene	43.49	0.42	10	50.00	0	87.0	55	110	0			
Bis(2-ethylhexyl)phthalate	41.13	1.3	10	50.00	0	82.3	40	125	0			
Di-n-octylphthalate	42.46	0.47	10	50.00	0	84.9	35	135	0			
Benzo(b)fluoranthene	42.82	0.94	10	50.00	0	85.6	45	120	0			
Benzo(k)fluoranthene	40.01	1.2	10	50.00	0	80.0	45	125	0			
Benzo(a)pyrene	41.21	1.2	10	50.00	0	82.4	55	110	0			
Indeno(1,2,3-cd)pyrene	37.43	0.38	10	50.00	0	74.9	45	125	0			
Dibenzo(a,h)anthracene	41.75	0.44	10	50.00	0	83.5	40	125	0			
Benzo(g,h,i)perylene	40.05	0.39	10	50.00	0	80.1	40	125	0			
1,1´-Biphenyl	39.12	0.65	10	50.00	0	78.2	55	108	0			
3-Methylphenol + 4-Methylphenol	41.97	1.4	10	50.00	0	83.9	30	110	0			
Acetophenone	39.52	0.51	10	50.00	0	79.0	56	145	0			
Aniline	19.33	1.3	10	50.00	0	38.7	10	150	0			
Azobenzene	41.33	0.71	10	50.00	0	82.7	46	117	0			
Benzidine	35.48	1.8	10	50.00	0	71.0	10	150	0			
Benzoic acid	3.177	2.0	20	50.00	0	6.35	0	125	0			
Benzyl alcohol	40.73	0.87	10	50.00	0	81.5	30	110	0			
Bis(2-chloroisopropyl)ether	34.03	1.0	10	50.00	0	68.1	40	140	0			
N-Nitrosodimethylamine	36.38	0.56	10	50.00	0	72.8	25	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83155** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **09/30/15 17:36** Run ID: **S6_151002B**

Client ID: **LCS-83155** Batch ID: **83155** Units: **ug/L** Analysis Date **10/03/15 2:24** SeqNo: **2312673**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Nitrobenzene-d5	40.01		10	50.00	0	80.0	40	110	0			
Surrogate: 2-Fluorobiphenyl	41.31		10	50.00	0	82.6	50	110	0			
Surrogate: Terphenyl-d14	45.43		10	50.00	0	90.9	50	135	0			
Surrogate: Phenol-d5	43.92		10	50.00	0	87.8	10	115	0			
Surrogate: 2-Fluorophenol	44.25		10	50.00	0	88.5	20	110	0			
Surrogate: 2,4,6-Tribromophenol	35.66		10	50.00	0	71.3	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_W**
alpha-BHC	ND		0.050	ug/L	1	10/02/2015 6:47	83156
beta-BHC	ND		0.050	ug/L	1	10/02/2015 6:47	83156
delta-BHC	ND		0.050	ug/L	1	10/02/2015 6:47	83156
gamma-BHC (Lindane)	ND		0.050	ug/L	1	10/02/2015 6:47	83156
Heptachlor	ND		0.050	ug/L	1	10/02/2015 6:47	83156
Aldrin	ND		0.050	ug/L	1	10/02/2015 6:47	83156
Heptachlor epoxide	ND		0.050	ug/L	1	10/02/2015 6:47	83156
Endosulfan I	ND		0.050	ug/L	1	10/02/2015 6:47	83156
Dieldrin	ND		0.10	ug/L	1	10/02/2015 6:47	83156
4,4´-DDE	ND		0.10	ug/L	1	10/02/2015 6:47	83156
Endrin	ND		0.10	ug/L	1	10/02/2015 6:47	83156
Endosulfan II	ND		0.10	ug/L	1	10/02/2015 6:47	83156
4,4´-DDD	ND		0.10	ug/L	1	10/02/2015 6:47	83156
Endosulfan sulfate	ND		0.10	ug/L	1	10/02/2015 6:47	83156
4,4´-DDT	ND		0.10	ug/L	1	10/02/2015 6:47	83156
Methoxychlor	ND		0.50	ug/L	1	10/02/2015 6:47	83156
Endrin ketone	ND		0.10	ug/L	1	10/02/2015 6:47	83156
Endrin aldehyde	ND		0.10	ug/L	1	10/02/2015 6:47	83156
alpha-Chlordane	ND		0.050	ug/L	1	10/02/2015 6:47	83156
gamma-Chlordane	ND		0.050	ug/L	1	10/02/2015 6:47	83156
Toxaphene	ND		5.0	ug/L	1	10/02/2015 6:47	83156
Surrogate: Tetrachloro-m-xylene	61.0		25-140	%REC	1	10/02/2015 6:47	83156
Surrogate: Decachlorobiphenyl	60.2		30-135	%REC	1	10/02/2015 6:47	83156

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Project: Barrington, RI site
Lab ID: P1457-02
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_W**
alpha-BHC	ND		0.050	ug/L	1	10/02/2015 7:02	83156
beta-BHC	ND		0.050	ug/L	1	10/02/2015 7:02	83156
delta-BHC	ND		0.050	ug/L	1	10/02/2015 7:02	83156
gamma-BHC (Lindane)	ND		0.050	ug/L	1	10/02/2015 7:02	83156
Heptachlor	ND		0.050	ug/L	1	10/02/2015 7:02	83156
Aldrin	ND		0.050	ug/L	1	10/02/2015 7:02	83156
Heptachlor epoxide	ND		0.050	ug/L	1	10/02/2015 7:02	83156
Endosulfan I	ND		0.050	ug/L	1	10/02/2015 7:02	83156
Dieldrin	ND		0.10	ug/L	1	10/02/2015 7:02	83156
4,4´-DDE	ND		0.10	ug/L	1	10/02/2015 7:02	83156
Endrin	ND		0.10	ug/L	1	10/02/2015 7:02	83156
Endosulfan II	ND		0.10	ug/L	1	10/02/2015 7:02	83156
4,4´-DDD	ND		0.10	ug/L	1	10/02/2015 7:02	83156
Endosulfan sulfate	ND		0.10	ug/L	1	10/02/2015 7:02	83156
4,4´-DDT	ND		0.10	ug/L	1	10/02/2015 7:02	83156
Methoxychlor	ND		0.50	ug/L	1	10/02/2015 7:02	83156
Endrin ketone	ND		0.10	ug/L	1	10/02/2015 7:02	83156
Endrin aldehyde	ND		0.10	ug/L	1	10/02/2015 7:02	83156
alpha-Chlordane	ND		0.050	ug/L	1	10/02/2015 7:02	83156
gamma-Chlordane	ND		0.050	ug/L	1	10/02/2015 7:02	83156
Toxaphene	ND		5.0	ug/L	1	10/02/2015 7:02	83156
Surrogate: Tetrachloro-m-xylene	61.8		25-140	%REC	1	10/02/2015 7:02	83156
Surrogate: Decachlorobiphenyl	63.1		30-135	%REC	1	10/02/2015 7:02	83156

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **MB-83156** SampType: **MBLK** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001A**
Client ID: **MB-83156** Batch ID: **83156** Units: **ug/L** Analysis Date **10/01/15 23:56** SeqNo: **2312019**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.0018	0.050									
beta-BHC	ND	0.0020	0.050									
delta-BHC	ND	0.0027	0.050									
gamma-BHC (Lindane)	ND	0.0019	0.050									
Heptachlor	ND	0.0039	0.050									
Aldrin	ND	0.0043	0.050									
Heptachlor epoxide	ND	0.0028	0.050									
Endosulfan I	ND	0.0029	0.050									
Dieldrin	ND	0.0056	0.10									
4,4´-DDE	ND	0.0056	0.10									
Endrin	ND	0.0035	0.10									
Endosulfan II	ND	0.0031	0.10									
4,4´-DDD	ND	0.0064	0.10									
Endosulfan sulfate	ND	0.0045	0.10									
4,4´-DDT	ND	0.0070	0.10									
Methoxychlor	ND	0.031	0.50									
Endrin ketone	ND	0.0046	0.10									
Endrin aldehyde	ND	0.015	0.10									
alpha-Chlordane	ND	0.0024	0.050									
gamma-Chlordane	ND	0.0026	0.050									
Toxaphene	ND	0.14	5.0									
Surrogate: Decachlorobiphenyl	0.7133		0.10	1.200	0	59.4	30	135	0			

Sample ID: **MB-83156** SampType: **MBLK** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001B**
Client ID: **MB-83156** Batch ID: **83156** Units: **ug/L** Analysis Date **10/01/15 23:56** SeqNo: **2312070**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	0.3297		0.050	0.6000	0	54.9	25	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCS-83156** SampType: **LCS** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001A**
Client ID: **LCS-83156** Batch ID: **83156** Units: **ug/L** Analysis Date **10/02/15 0:11** SeqNo: **2312020**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	0.1485	0.0018	0.050	0.2000	0	74.2	60	130	0			
beta-BHC	0.1564	0.0020	0.050	0.2000	0	78.2	65	125	0			
delta-BHC	0.1485	0.0027	0.050	0.2000	0	74.2	45	135	0			
gamma-BHC (Lindane)	0.1534	0.0019	0.050	0.2000	0	76.7	25	135	0			
Heptachlor	0.1567	0.0039	0.050	0.2000	0	78.4	40	130	0			
Aldrin	0.1431	0.0043	0.050	0.2000	0	71.6	25	140	0			
Endosulfan I	0.1440	0.0029	0.050	0.2000	0	72.0	50	110	0			
Dieldrin	0.3076	0.0056	0.10	0.4000	0	76.9	60	130	0			
4,4´-DDE	0.3019	0.0056	0.10	0.4000	0	75.5	35	140	0			
Endrin	0.3613	0.0035	0.10	0.4000	0	90.3	55	135	0			
Endosulfan II	0.2886	0.0031	0.10	0.4000	0	72.2	30	130	0			
4,4´-DDD	0.2957	0.0064	0.10	0.4000	0	73.9	25	150	0			
Endosulfan sulfate	0.3032	0.0045	0.10	0.4000	0	75.8	55	135	0			
4,4´-DDT	0.3343	0.0070	0.10	0.4000	0	83.6	45	140	0			
Methoxychlor	1.737	0.031	0.50	2.000	0	86.8	55	150	0			
Endrin ketone	0.3153	0.0046	0.10	0.4000	0	78.8	75	125	0			
alpha-Chlordane	0.1478	0.0024	0.050	0.2000	0	73.9	65	125	0			
Surrogate: Decachlorobiphenyl	0.8674		0.10	1.200	0	72.3	30	135	0			

Sample ID: **LCS-83156** SampType: **LCS** TestCode: **SW8081_W** Prep Date: **09/30/15 17:42** Run ID: **E6_151001B**
Client ID: **LCS-83156** Batch ID: **83156** Units: **ug/L** Analysis Date **10/02/15 0:11** SeqNo: **2312071**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptachlor epoxide	0.1515	0.0028	0.050	0.2000	0	75.7	60	130	0			
Endrin aldehyde	0.2471	0.015	0.10	0.4000	0	61.8	55	135	0			
gamma-Chlordane	0.1485	0.0026	0.050	0.2000	0	74.2	60	125	0			
Surrogate: Tetrachloro-m-xylene	0.3680		0.050	0.6000	0	61.3	25	140	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_W**
Aroclor-1016	ND		1.0	ug/L	1	10/05/2015 17:00	83157
Aroclor-1221	ND		1.0	ug/L	1	10/05/2015 17:00	83157
Aroclor-1232	ND		1.0	ug/L	1	10/05/2015 17:00	83157
Aroclor-1242	ND		1.0	ug/L	1	10/05/2015 17:00	83157
Aroclor-1248	ND		1.0	ug/L	1	10/05/2015 17:00	83157
Aroclor-1254	ND		1.0	ug/L	1	10/05/2015 17:00	83157
Aroclor-1260	ND		1.0	ug/L	1	10/05/2015 17:00	83157
Surrogate: Tetrachloro-m-xylene	83.3		34-137	%REC	1	10/05/2015 17:00	83157
Surrogate: Decachlorobiphenyl	87.5		40-135	%REC	1	10/05/2015 17:00	83157

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_W**
Aroclor-1016	ND		1.0	ug/L	1	10/05/2015 17:14	83157
Aroclor-1221	ND		1.0	ug/L	1	10/05/2015 17:14	83157
Aroclor-1232	ND		1.0	ug/L	1	10/05/2015 17:14	83157
Aroclor-1242	ND		1.0	ug/L	1	10/05/2015 17:14	83157
Aroclor-1248	ND		1.0	ug/L	1	10/05/2015 17:14	83157
Aroclor-1254	ND		1.0	ug/L	1	10/05/2015 17:14	83157
Aroclor-1260	ND		1.0	ug/L	1	10/05/2015 17:14	83157
Surrogate: Tetrachloro-m-xylene	83.6		34-137	%REC	1	10/05/2015 17:14	83157
Surrogate: Decachlorobiphenyl	86.9		40-135	%REC	1	10/05/2015 17:14	83157

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_W

SW846 8082A -- PCB by GC-ECD

Sample ID: **MB-83157** SampType: **MBLK** TestCode: **SW8082_W** Prep Date: **09/30/15 17:48** Run ID: **E2_151005A**
Client ID: **MB-83157** Batch ID: **83157** Units: **ug/L** Analysis Date **10/05/15 15:48** SeqNo: **2313061**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	0.12	1.0									
Aroclor-1221	ND	0.095	1.0									
Aroclor-1232	ND	0.19	1.0									
Aroclor-1242	ND	0.030	1.0									
Aroclor-1248	ND	0.063	1.0									
Aroclor-1254	ND	0.20	1.0									
Aroclor-1260	ND	0.11	1.0									

Sample ID: **MB-83157** SampType: **MBLK** TestCode: **SW8082_W** Prep Date: **09/30/15 17:48** Run ID: **E2_151005B**
Client ID: **MB-83157** Batch ID: **83157** Units: **ug/L** Analysis Date **10/05/15 15:48** SeqNo: **2313097**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	0.4506		0.050	0.6000	0	75.1	34	137	0			
Surrogate: Decachlorobiphenyl	0.9626		0.10	1.200	0	80.2	40	135	0			

Sample ID: **LCS-83157** SampType: **LCS** TestCode: **SW8082_W** Prep Date: **09/30/15 17:48** Run ID: **E2_151005B**
Client ID: **LCS-83157** Batch ID: **83157** Units: **ug/L** Analysis Date **10/05/15 16:03** SeqNo: **2313098**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	3.210	0.12	1.0	4.000	0	80.2	25	145	0			
Aroclor-1260	3.211	0.11	1.0	4.000	0	80.3	30	145	0			
Surrogate: Tetrachloro-m-xylene	0.4806		0.050	0.6000	0	80.1	34	137	0			
Surrogate: Decachlorobiphenyl	1.020		0.10	1.200	0	85.0	40	135	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8011 -- EDB and DBCP by GC-ECD							**SW8011_W**
1,2-Dibromoethane	ND		0.021	ug/L	1	10/06/2015 20:58	83213
1,2-Dibromo-3-chloropropane	ND		0.021	ug/L	1	10/06/2015 20:58	83213
Surrogate: 1,1,1,2-Tetrachloroethane	112		60-140	%REC	1	10/06/2015 20:58	83213

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8011 -- EDB and DBCP by GC-ECD							**SW8011_W**
1,2-Dibromoethane	ND		0.020	ug/L	1	10/06/2015 21:21	83213
1,2-Dibromo-3-chloropropane	ND		0.020	ug/L	1	10/06/2015 21:21	83213
Surrogate: 1,1,1,2-Tetrachloroethane	105		60-140	%REC	1	10/06/2015 21:21	83213

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8011_W

SW846 8011 -- EDB and DBCP by GC-ECD

Sample ID: **MB-83213** SampType: **MBLK** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006A**
Client ID: **MB-83213** Batch ID: **83213** Units: **ug/L** Analysis Date **10/06/15 19:02** SeqNo: **2313800**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.0043	0.020									
1,2-Dibromo-3-chloropropane	ND	0.0028	0.020									

Sample ID: **MB-83213** SampType: **MBLK** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006B**
Client ID: **MB-83213** Batch ID: **83213** Units: **ug/L** Analysis Date **10/06/15 19:02** SeqNo: **2313855**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 1,1,1,2-Tetrachloroethane	0.07190		0.020	0.08000	0	89.9	60	140	0			

Sample ID: **LCS-83213** SampType: **LCS** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006B**
Client ID: **LCS-83213** Batch ID: **83213** Units: **ug/L** Analysis Date **10/06/15 19:26** SeqNo: **2313858**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.06387	0.0043	0.020	0.08000	0	79.8	70	130	0			
1,2-Dibromo-3-chloropropane	0.07124	0.0028	0.020	0.08000	0	89.0	70	130	0			
Surrogate: 1,1,1,2-Tetrachloroethane	0.07777		0.020	0.08000	0	97.2	60	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_W**
Extractable Total Petroleum Hydrocarbon	ND		0.20	mg/L	1	10/06/2015 4:47	83158
Surrogate: ortho-Terphenyl	79.7		50-150	%REC	1	10/06/2015 4:47	83158

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Lab ID: P1457-02
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_W**
Extractable Total Petroleum Hydrocarbon	ND		0.20	mg/L	1	10/06/2015 5:03	83158
Surrogate: ortho-Terphenyl	88.7		50-150	%REC	1	10/06/2015 5:03	83158

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

TPH_W

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID: **MB-83158** SampType: **MBLK** TestCode: **TPH_W** Prep Date: **09/30/15 17:51** Run ID: **F1_151005A**
Client ID: **MB-83158** Batch ID: **83158** Units: **mg/L** Analysis Date **10/06/15 3:02** SeqNo: **2313145**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	ND	0.018	0.20									
Surrogate: ortho-Terphenyl	0.08689		0.025	0.1000	0	86.9	50	150	0			

Sample ID: **LCS-83158** SampType: **LCS** TestCode: **TPH_W** Prep Date: **09/30/15 17:51** Run ID: **F1_151005A**
Client ID: **LCS-83158** Batch ID: **83158** Units: **mg/L** Analysis Date **10/06/15 3:17** SeqNo: **2313146**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	5.726	0.018	0.20	5.000	0	115	60	140	0			
Surrogate: ortho-Terphenyl	0.1146		0.025	0.1000	0	115	50	150	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1
Lab ID: P1457-01
Project: Barrington, RI site
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony	ND		2.0	ug/L	1	10/06/2015 13:22	83174
Arsenic	0.24	J	2.0	ug/L	1	10/06/2015 13:22	83174
Barium	8.6	J	10	ug/L	1	10/06/2015 13:22	83174
Beryllium	ND		1.0	ug/L	1	10/06/2015 13:22	83174
Cadmium	ND		1.0	ug/L	1	10/06/2015 13:22	83174
Chromium	ND		2.0	ug/L	1	10/06/2015 13:22	83174
Copper	1.8	J	2.0	ug/L	1	10/06/2015 13:22	83174
Lead	1.2		1.0	ug/L	1	10/06/2015 13:22	83174
Manganese	570		2.0	ug/L	1	10/06/2015 13:22	83174
Nickel	0.87	J	1.0	ug/L	1	10/06/2015 13:22	83174
Selenium	ND		5.0	ug/L	1	10/06/2015 13:22	83174
Silver	ND		1.0	ug/L	1	10/06/2015 13:22	83174
Thallium	0.056	BJ	1.0	ug/L	1	10/06/2015 13:22	83174
Vanadium	ND		5.0	ug/L	1	10/06/2015 13:22	83174
Zinc	14		2.0	ug/L	1	10/06/2015 13:22	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury	ND		0.20	µg/L	1	10/04/2015 14:22	83182

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW
Project: Barrington, RI site
Lab ID: P1457-02
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony	ND		2.0	ug/L	1	10/06/2015 13:37	83174
Arsenic	ND		2.0	ug/L	1	10/06/2015 13:37	83174
Barium	8.2	J	10	ug/L	1	10/06/2015 13:37	83174
Beryllium	ND		1.0	ug/L	1	10/06/2015 13:37	83174
Cadmium	ND		1.0	ug/L	1	10/06/2015 13:37	83174
Chromium	ND		2.0	ug/L	1	10/06/2015 13:37	83174
Copper	1.4	J	2.0	ug/L	1	10/06/2015 13:37	83174
Lead	0.76	J	1.0	ug/L	1	10/06/2015 13:37	83174
Manganese	550		2.0	ug/L	1	10/06/2015 13:37	83174
Nickel	0.79	J	1.0	ug/L	1	10/06/2015 13:37	83174
Selenium	ND		5.0	ug/L	1	10/06/2015 13:37	83174
Silver	ND		1.0	ug/L	1	10/06/2015 13:37	83174
Thallium	0.14	BJ	1.0	ug/L	1	10/06/2015 13:37	83174
Vanadium	ND		5.0	ug/L	1	10/06/2015 13:37	83174
Zinc	9.4		2.0	ug/L	1	10/06/2015 13:37	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury	ND		0.20	µg/L	1	10/04/2015 14:23	83182

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: WELL-1-F
Project: Barrington, RI site
Lab ID: P1457-04
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony -- Dissolved	ND		2.0	ug/L	1	10/06/2015 13:42	83174
Arsenic -- Dissolved	ND		2.0	ug/L	1	10/06/2015 13:42	83174
Barium -- Dissolved	7.8	J	10	ug/L	1	10/06/2015 13:42	83174
Beryllium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:42	83174
Cadmium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:42	83174
Chromium -- Dissolved	ND		2.0	ug/L	1	10/06/2015 13:42	83174
Copper -- Dissolved	0.47	J	2.0	ug/L	1	10/06/2015 13:42	83174
Lead -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:42	83174
Manganese -- Dissolved	540		2.0	ug/L	1	10/06/2015 13:42	83174
Nickel -- Dissolved	0.51	J	1.0	ug/L	1	10/06/2015 13:42	83174
Selenium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 13:42	83174
Silver -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:42	83174
Thallium -- Dissolved	0.070	BJ	1.0	ug/L	1	10/06/2015 13:42	83174
Vanadium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 13:42	83174
Zinc -- Dissolved	4.0		2.0	ug/L	1	10/06/2015 13:42	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury -- Dissolved	ND		0.20	µg/L	1	10/04/2015 14:25	83182

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01-GW-F
Project: Barrington, RI site
Lab ID: P1457-05
Collection Date: 09/28/15 12:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony -- Dissolved	ND		2.0	ug/L	1	10/06/2015 13:47	83174
Arsenic -- Dissolved	ND		2.0	ug/L	1	10/06/2015 13:47	83174
Barium -- Dissolved	7.8	J	10	ug/L	1	10/06/2015 13:47	83174
Beryllium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:47	83174
Cadmium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:47	83174
Chromium -- Dissolved	ND		2.0	ug/L	1	10/06/2015 13:47	83174
Copper -- Dissolved	0.32	J	2.0	ug/L	1	10/06/2015 13:47	83174
Lead -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:47	83174
Manganese -- Dissolved	540		2.0	ug/L	1	10/06/2015 13:47	83174
Nickel -- Dissolved	0.59	J	1.0	ug/L	1	10/06/2015 13:47	83174
Selenium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 13:47	83174
Silver -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:47	83174
Thallium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 13:47	83174
Vanadium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 13:47	83174
Zinc -- Dissolved	2.0		2.0	ug/L	1	10/06/2015 13:47	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury -- Dissolved	ND		0.20	µg/L	1	10/04/2015 14:27	83182

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6020_W

SW846 6020A -- Metals by ICP-MS

Sample ID: **MB-83174** SampType: **MBLK** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **MB-83174** Batch ID: **83174** Units: **ug/L** Analysis Date **10/06/15 12:47** SeqNo: **2313603**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.20	2.0									
Arsenic	ND	0.19	2.0									
Barium	ND	1.3	10									
Beryllium	ND	0.072	1.0									
Cadmium	ND	0.084	1.0									
Chromium	ND	0.16	2.0									
Copper	ND	0.23	2.0									
Lead	ND	0.068	1.0									
Manganese	ND	0.83	2.0									
Nickel	ND	0.17	1.0									
Selenium	ND	0.19	5.0									
Silver	ND	0.022	1.0									
Thallium	0.07055	0.047	1.0									J
Vanadium	ND	0.61	5.0									
Zinc	ND	0.73	2.0									

Sample ID: **LCS-83174** SampType: **LCS** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **LCS-83174** Batch ID: **83174** Units: **ug/L** Analysis Date **10/06/15 12:52** SeqNo: **2313604**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	99.38	0.20	2.0	100.0	0	99.4	80	120	0			
Arsenic	39.67	0.19	2.0	40.00	0	99.2	80	120	0			
Barium	1954	1.3	10	2000	0	97.7	80	120	0			
Beryllium	51.18	0.072	1.0	50.00	0	102	80	120	0			
Cadmium	49.37	0.084	1.0	50.00	0	98.7	80	120	0			
Chromium	195.2	0.16	2.0	200.0	0	97.6	80	120	0			
Copper	244.0	0.23	2.0	250.0	0	97.6	80	120	0			
Lead	19.79	0.068	1.0	20.00	0	99.0	80	120	0			
Manganese	489.9	0.83	2.0	500.0	0	98.0	80	120	0			
Nickel	507.9	0.17	1.0	500.0	0	102	80	120	0			
Selenium	50.77	0.19	5.0	50.00	0	102	80	120	0			
Silver	49.38	0.022	1.0	50.00	0	98.8	80	120	0			
Thallium	43.21	0.047	1.0	50.00	0	86.4	80	120	0			B
Vanadium	491.9	0.61	5.0	500.0	0	98.4	80	120	0			
Zinc	491.8	0.73	2.0	500.0	0	98.4	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1457
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7470

SW846 7470A -- Mercury by FIA

Sample ID: **MB-83182** SampType: **MBLK** TestCode: **SW7470** Prep Date: **10/02/15 9:00** Run ID: **FIMS2_151004A**
Client ID: **MB-83182** Batch ID: **83182** Units: **µg/L** Analysis Date **10/04/15 13:57** SeqNo: **2312108**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.028	0.20									

Sample ID: **LCS-83182** SampType: **LCS** TestCode: **SW7470** Prep Date: **10/02/15 9:00** Run ID: **FIMS2_151004A**
Client ID: **LCS-83182** Batch ID: **83182** Units: **µg/L** Analysis Date **10/04/15 13:58** SeqNo: **2312109**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.644	0.028	0.20	4.550	0	102	80	120	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

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☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Report Date:
12-Oct-15 12:48

Laboratory Report

Eurofins Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Edward Lawler

Project: Barrington, RI Site
Project #: P1457

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC13147-01	WELL-1	Aqueous	28-Sep-15 12:55	02-Oct-15 18:50
SC13147-02	DUP-01-GW	Aqueous	28-Sep-15 12:55	02-Oct-15 18:50

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

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:

June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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

CASE NARRATIVE:

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

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

The samples were received 3.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	Eurofins Spectrum Analytical, Inc. - RI
Project:	Barrington, RI Site / P1457
Work Order:	SC13147
Sample(s) received on:	10/2/2015

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

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: **Client ID:**

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method

No hits detected.

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
WELL-1 SC13147-01	P1457	Aqueous	28-Sep-15 12:55	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00480	1	EPA 335.4 / SW846 9012B	09-Oct-15	10-Oct-15	rlt	1519282	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-01-GW SC13147-02	P1457	Aqueous	28-Sep-15 12:55	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00480	1	EPA 335.4 / SW846 9012B	09-Oct-15	10-Oct-15	rlt	1519282	X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1519282 - General Preparation										
Blank (1519282-BLK1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	< 0.00500	U	mg/l	0.00500						
Blank (1519282-BLK2)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	< 0.00500	U	mg/l	0.00500						
LCS (1519282-BS1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.194**		mg/l	0.00500	0.200		97	90-110		
LCS (1519282-BS2)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.201**		mg/l	0.00500	0.200		100	90-110		
Calibration Blank (1519282-CCB1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/l							
Calibration Blank (1519282-CCB2)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/l							
Calibration Blank (1519282-CCB3)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/l							
Calibration Check (1519282-CCV1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.329**		mg/l	0.00500	0.300		110	90-110		
Calibration Check (1519282-CCV2)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.314**		mg/l	0.00500	0.300		105	90-110		
Calibration Check (1519282-CCV3)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.321**		mg/l	0.00500	0.300		107	90-110		
Reference (1519282-SRM1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.297**		mg/l	0.00500	0.290		103	75.7-123		

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

Validated by:
Kimberly LaPlante

SC 13147 e

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1457
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/12/2015
FAX Due Date : 10/7/2015
Report To : Edward A Lawler
Purchase Order : P1457
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_W										
WELL-1	09/28/2015 12:55	1	Aqueous		P1457-01D	X										13147-01
DUP-01-GW	09/28/2015 12:55	1	Aqueous		P1457-02D	X										1 - ce

1) SW9012_W, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

4.7/-1/3.7/01
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/02/15 11:10	**Received by:**	David A Dee	10/2/15 12:40
Relinquished by:	David A Dee	10/2/15 13:05	**Received by:**	[illegible]	10/2/15 1850

10/02/2015
Page 1 of 1

[X] REFRIG.

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1457

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1457-01A	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	GRO_W	/					VOA
P1457-01A	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	SW8260_W	/				Y	VOA
P1457-01B	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	SW8011_W	/ EDB and DBCP				Y	O3
P1457-01C	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	SW8081_W	/					O3
P1457-01C	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	SW8082_W	/					O3
P1457-01C	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	SW8270_W	/ Special SEL				Y	O3
P1457-01C	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	TPH_W	/ Extractable TPH- DRO					O3
P1457-01D	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	SW9012_W	/ SPECTRUM--					O3
P1457-01E	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	SW6020_W	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4
P1457-01E	WELL-1	09/28/2015 12:55	09/30/2015	Aqueous	SW7470	/					M4
P1457-02A	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	GRO_W	/					VOA
P1457-02A	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	SW8260_W	/				Y	VOA
P1457-02B	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	SW8011_W	/ EDB and DBCP				Y	O3
P1457-02C	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	SW8081_W	/					O3
P1457-02C	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	SW8082_W	/					O3
P1457-02C	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	SW8270_W	/ Special SEL				Y	O3
P1457-02C	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	TPH_W	/ Extractable TPH- DRO					O3
P1457-02D	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	SW9012_W	/ SPECTRUM--					O3
P1457-02E	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	SW6020_W	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1457

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/12/15
Fax Due: 10/07/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1457-02E	DUP-01-GW	09/28/2015 12:55	09/30/2015	Aqueous	SW7470	/					M4
P1457-03A	TRIP BLANK	09/29/2015 10:30	09/30/2015	Aqueous	SW8260_W	/				Y	VOA
P1457-04A	WELL-1-F	09/28/2015 12:55	09/30/2015	Aqueous	SW6020_W	Dissolved / Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4
P1457-04A	WELL-1-F	09/28/2015 12:55	09/30/2015	Aqueous	SW7470	Dissolved /					M4
P1457-05A	DUP-01-GW-F	09/28/2015 12:55	09/30/2015	Aqueous	SW6020_W	Dissolved / Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4
P1457-05A	DUP-01-GW-F	09/28/2015 12:55	09/30/2015	Aqueous	SW7470	Dissolved /					M4

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Ind icate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering Inc.
585 Middlesex St
Lowell, MA 01851

Telephone #: 978-683-0891
Project Mgr. T. Costa

Invoice To: Nobis

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington, RI State: RI
Sampler(s): AR / AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= ice 12= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1457 G=Grab C=Composite

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic		VOC	SVOC	EDB/DBCP	Pest/PCB	Metals (CR, Total Pb, Hg)	Cyanide	DRO/GRO	
	List preservative code below:										2	TI	2	11	4	5	2/11	
01	Well-1	9/28/15	1255		GW	9	5	–	3		X	X	X	X	X	X	X	
02	DUP-01-GW	9/28/15	1255		GW	9	5	–	3		X	X	X	X	X	X	X	
03	Trip Blank	9/29/15	1030			2	–	–	–		X							

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/29/15	1212	
[signature]	Agnes Khuthy	9/30/15	13:00	

☐ EDD Format Excel / PDF Report
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.8°C

Revised Feb 2013

Eurofins Spectrum Analytical, Inc. -- ESA-RI

Received By: ACA	Page 01 of 00
Reviewed By: gp	Log-in Date 09/30/2015
Work Order: P1457	Client Name: Nobis Engineering, Inc
Project Name/Event: Barrington, RI site	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
5. Airbill No. — Courier N/A
6. Sample Tags — Present / Absent
   Sample Tag Numbers — Listed / Not Listed on Chain-of-Custody
7. Sample Condition — Intact / Broken/ Leaking
8. Cooler Temperature Indicator Bottle — Present / Absent
9. Cooler Temperature — 2.8 °C
10. Does information on TR/COCs and sample tags agree? — Yes / No
11. Date Received at Laboratory — 09/30/2015
12. Time Received — 13:00

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
P1457-01	<2			>12		H	
P1457-02	<2			>12		H	
P1457-03						H	

IR Temp Gun ID:MT-74

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

Last Page of Data Report

Report Date:
13-Oct-15 13:55

eurofins | Spectrum Analytical

- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Laboratory Report

Nobis Engineering, Inc
585 Middlesex Street
Lowell, MA 01851

Attn: Gail DeRuzzo

Work Order: P1465
Project : Barrington, RI site
Project #:

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P1465-01	NOB-113-GW	Aqueous	30-Sep-15 10:10	01-Oct-15 09:45
P1465-02	NOB-121-GW	Aqueous	30-Sep-15 13:40	01-Oct-15 09:45
P1465-03	NOB-105-GW	Aqueous	30-Sep-15 16:10	01-Oct-15 09:45
P1465-04	TRIP BLANK-03	Aqueous	30-Sep-15 16:30	01-Oct-15 09:45
P1465-05	NOB-113-GW-F	Aqueous	30-Sep-15 10:10	01-Oct-15 09:45
P1465-06	NOB-121-GW-F	Aqueous	30-Sep-15 13:40	01-Oct-15 09:45
P1465-07	NOB-105-GW-F	Aqueous	30-Sep-15 16:10	01-Oct-15 09:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Eurofins Spectrum Analytical (ESA-RI) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1465

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V5
Instrument Type: GCMS-VOA

Description: HP6890 / HP6890
Manufacturer: Hewlett-Packard
Model: 6890 / 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

No manual integrations were performed on any sample or standard.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and

for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1465

SW846 8015D GRO, Gasoline Range Organic (GRO) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D GRO

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW5030B

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V4
Instrument Type: GC-FID/PID

Description: HP5890 A
Manufacturer: Hewlett-Packard
Model: 5890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

NA--Supervisor needs to explain why no internal standards were detected during the generation of this narrative.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded

to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1465

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi

Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-83186 in batch 83186, recovery is above criteria for Benzo(a)anthracene at 112% with criteria of (55-110), Chrysene at 110% with criteria of (55-110), recovery is below criteria for Pentachlorophenol at 32% with criteria of (40-115).

LCSD-83186 in batch 83186, recovery is below criteria for Pentachlorophenol at 20% with criteria of (40-115).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integrations were performed on the following:

LCS-83186 Caprolactam due to M6

LCSD-83186 Caprolactam due to M6

SSTD0056T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid, Pentachlorophenol due to M6

SSTD0106T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid due to M6

SSTD0253V 1,1´-Biphenyl , 1,2,4-Trichlorobenzene, 1-Methylnaphthalene, 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Tribromophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 2-Fluorobiphenyl, 2-Methylnaphthalene, 2-Nitroaniline, 2-Nitrophenol, 3,3´-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-2-methylphenol, 4-Bromophenyl-phenylether, 4-Chloro-3-methylphenol, 4-Chloroaniline, 4-Chlorophenyl-phenylether, 4-Nitroaniline, 4-Nitrophenol, Acenaphthene, Acenaphthene-d10, Acenaphthylene, alpha-Terpineol, Anthracene, Atrazine, Azobenzene, Benzidine, Benzo(a)anthracene, Benzo(a)pyrene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzoic acid, Bis(2-chloroethoxy)methane,

Bis(2-ethylhexyl)phthalate, Caprolactam, Carbazole, Chrysene, Chrysene-d12, Dibenzofuran, Diethylphthalate, Dimethylphthalate, Di-n-butylphthalate, Di-n-octylphthalate, Fluoranthene, Fluorene, Hexachlorobenzene, Hexachlorobutadiene, Hexachlorocyclopentadiene, Isophorone, Naphthalene, Nitrobenzene, Nitrobenzene-d5, N-Nitrosodiphenylamine, Pentachloronitrobenzene, Pentachlorophenol, Perylene-d12, Phenanthrene, Phenanthrene-d10, Pyrene due to M6

SSTD0253Y 4-Nitrophenol , Benzoic acid due to M6

SSTD0406T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0606T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0806T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Indeno(1,2,3-cd)pyrene due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1465

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1465

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard

Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1465

SW846 8011, EDB and DBCP by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8011

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3570

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E5
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies

generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

The following samples were manually integrated:

504L1H5 1,1,1,2-Tetrachloroethane on front column , 1,2-Dibromo-3-chloropropane on front column , 1,2-Dibromoethane on front column , 1,2-Dibromo-3-chloropropane on rear column , 1,2-Dibromoethane on rear column due to M3

504L4H5 1,2-Dibromoethane on rear column due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1465

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D TPH

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3510C

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

No client-requested MS/MSD analyses were included in this SDG.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1465

SW846 6020A, SW846 7470A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6020A, SW846 7470A

IV. PREPARATION

Aqueous Samples were prepared following procedures in laboratory test code: SW3005A
Aqueous Samples were prepared following procedures in laboratory test code: SW7470A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: X1
Instrument Type: ICPMS
Description: X1
Manufacturer: ThermoFisher
Model: X-Series 2

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

A matrix spike was not performed on any sample in this SDG.

D. Post Digestion Spike (PDS):

A post-digestion spike was not performed on any sample in this SDG.

E. Duplicate sample:

A duplicate analysis was not performed on any sample in this SDG.

F. Serial Dilution (SD):

A serial dilution was not performed on any sample in this SDG.

G. Samples:

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: Sharon B Lawler

Date: 10/13/2015

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01
Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Chloromethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Vinyl chloride	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Bromomethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Chloroethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Trichlorofluoromethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,1-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Acetone	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Carbon disulfide	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Methylene chloride	ND		5.0	ug/L	1	10/02/2015 11:47	83187
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,1-Dichloroethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
2-Butanone	ND		5.0	ug/L	1	10/02/2015 11:47	83187
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
2,2-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Bromochloromethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Chloroform	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,1-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Carbon tetrachloride	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2-Dichloroethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Benzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Trichloroethene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Dibromomethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Bromodichloromethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Toluene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,3-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Tetrachloroethene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
2-Hexanone	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Dibromochloromethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2-Dibromoethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Chlorobenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01
Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Ethylbenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
m,p-Xylene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
o-Xylene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Xylene (Total)	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Styrene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Bromoform	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Isopropylbenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Bromobenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
n-Propylbenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
2-Chlorotoluene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
4-Chlorotoluene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
tert-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
sec-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
4-Isopropyltoluene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
n-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Hexachlorobutadiene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Naphthalene	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Diethyl ether	ND		5.0	ug/L	1	10/02/2015 11:47	83187
Tetrahydrofuran	ND		10	ug/L	1	10/02/2015 11:47	83187
Surrogate: Dibromofluoromethane	105		85-115	%REC	1	10/02/2015 11:47	83187
Surrogate: 1,2-Dichloroethane-d4	106		70-120	%REC	1	10/02/2015 11:47	83187
Surrogate: Toluene-d8	101		85-120	%REC	1	10/02/2015 11:47	83187
Surrogate: Bromofluorobenzene	103		75-120	%REC	1	10/02/2015 11:47	83187

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Chloromethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Vinyl chloride	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Bromomethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Chloroethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Trichlorofluoromethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,1-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Acetone	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Carbon disulfide	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Methylene chloride	ND		5.0	ug/L	1	10/02/2015 12:12	83187
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,1-Dichloroethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
2-Butanone	ND		5.0	ug/L	1	10/02/2015 12:12	83187
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
2,2-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Bromochloromethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Chloroform	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,1-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Carbon tetrachloride	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2-Dichloroethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Benzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Trichloroethene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Dibromomethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Bromodichloromethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Toluene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,3-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Tetrachloroethene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
2-Hexanone	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Dibromochloromethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2-Dibromoethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Chlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Ethylbenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
m,p-Xylene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
o-Xylene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Xylene (Total)	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Styrene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Bromoform	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Isopropylbenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Bromobenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
n-Propylbenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
2-Chlorotoluene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
4-Chlorotoluene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
tert-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
sec-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
4-Isopropyltoluene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
n-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Hexachlorobutadiene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Naphthalene	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Diethyl ether	ND		5.0	ug/L	1	10/02/2015 12:12	83187
Tetrahydrofuran	ND		10	ug/L	1	10/02/2015 12:12	83187
Surrogate: Dibromofluoromethane	107		85-115	%REC	1	10/02/2015 12:12	83187
Surrogate: 1,2-Dichloroethane-d4	103		70-120	%REC	1	10/02/2015 12:12	83187
Surrogate: Toluene-d8	101		85-120	%REC	1	10/02/2015 12:12	83187
Surrogate: Bromofluorobenzene	102		75-120	%REC	1	10/02/2015 12:12	83187

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03
Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Chloromethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Vinyl chloride	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Bromomethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Chloroethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Trichlorofluoromethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,1-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Acetone	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Carbon disulfide	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Methylene chloride	ND		5.0	ug/L	1	10/02/2015 12:38	83187
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,1-Dichloroethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
2-Butanone	ND		5.0	ug/L	1	10/02/2015 12:38	83187
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
2,2-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Bromochloromethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Chloroform	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,1-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Carbon tetrachloride	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2-Dichloroethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Benzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Trichloroethene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Dibromomethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Bromodichloromethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Toluene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,3-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Tetrachloroethene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
2-Hexanone	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Dibromochloromethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2-Dibromoethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Chlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03
Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Ethylbenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
m,p-Xylene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
o-Xylene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Xylene (Total)	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Styrene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Bromoform	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Isopropylbenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Bromobenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
n-Propylbenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
2-Chlorotoluene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
4-Chlorotoluene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
tert-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
sec-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
4-Isopropyltoluene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
n-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Hexachlorobutadiene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Naphthalene	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Diethyl ether	ND		5.0	ug/L	1	10/02/2015 12:38	83187
Tetrahydrofuran	ND		10	ug/L	1	10/02/2015 12:38	83187
Surrogate: Dibromofluoromethane	105		85-115	%REC	1	10/02/2015 12:38	83187
Surrogate: 1,2-Dichloroethane-d4	100		70-120	%REC	1	10/02/2015 12:38	83187
Surrogate: Toluene-d8	101		85-120	%REC	1	10/02/2015 12:38	83187
Surrogate: Bromofluorobenzene	103		75-120	%REC	1	10/02/2015 12:38	83187

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK-03 **Project:** Barrington, RI site
Lab ID: P1465-04 **Collection Date:** 09/30/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
Dichlorodifluoromethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Chloromethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Vinyl chloride	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Bromomethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Chloroethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Trichlorofluoromethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,1-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Acetone	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Carbon disulfide	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Methylene chloride	ND		5.0	ug/L	1	10/02/2015 13:03	83187
trans-1,2-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Methyl tert-butyl ether	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,1-Dichloroethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
2-Butanone	ND		5.0	ug/L	1	10/02/2015 13:03	83187
cis-1,2-Dichloroethene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
2,2-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Bromochloromethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Chloroform	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,1,1-Trichloroethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,1-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Carbon tetrachloride	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2-Dichloroethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Benzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Trichloroethene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Dibromomethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Bromodichloromethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
cis-1,3-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
4-Methyl-2-pentanone	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Toluene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
trans-1,3-Dichloropropene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,1,2-Trichloroethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,3-Dichloropropane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Tetrachloroethene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
2-Hexanone	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Dibromochloromethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2-Dibromoethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Chlorobenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK-03 **Project:** Barrington, RI site
Lab ID: P1465-04 **Collection Date:** 09/30/15 16:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_W**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Ethylbenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
m,p-Xylene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
o-Xylene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Xylene (Total)	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Styrene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Bromoform	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Isopropylbenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,1,2,2-Tetrachloroethane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Bromobenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2,3-Trichloropropane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
n-Propylbenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
2-Chlorotoluene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,3,5-Trimethylbenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
4-Chlorotoluene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
tert-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2,4-Trimethylbenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
sec-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
4-Isopropyltoluene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,3-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,4-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
n-Butylbenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2-Dichlorobenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2-Dibromo-3-chloropropane	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2,4-Trichlorobenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Hexachlorobutadiene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
1,2,3-Trichlorobenzene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Naphthalene	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Diethyl ether	ND		5.0	ug/L	1	10/02/2015 13:03	83187
Tetrahydrofuran	ND		10	ug/L	1	10/02/2015 13:03	83187
Surrogate: Dibromofluoromethane	104		85-115	%REC	1	10/02/2015 13:03	83187
Surrogate: 1,2-Dichloroethane-d4	102		70-120	%REC	1	10/02/2015 13:03	83187
Surrogate: Toluene-d8	100		85-120	%REC	1	10/02/2015 13:03	83187
Surrogate: Bromofluorobenzene	102		75-120	%REC	1	10/02/2015 13:03	83187

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83187** SampType: **MBLK** TestCode: **SW8260_W** Prep Date: **10/02/15 8:58** Run ID: **V5_151002A**

Client ID: **MB-83187** Batch ID: **83187** Units: **ug/L** Analysis Date: **10/02/15 11:22** SeqNo: **2313407**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.66	1.0									
Chloromethane	ND	0.26	1.0									
Vinyl chloride	ND	0.50	1.0									
Bromomethane	ND	0.80	1.0									
Chloroethane	ND	0.48	1.0									
Trichlorofluoromethane	ND	0.54	1.0									
1,1-Dichloroethene	ND	0.39	1.0									
Acetone	ND	2.2	5.0									
Carbon disulfide	ND	0.34	1.0									
Methylene chloride	ND	0.41	1.0									
trans-1,2-Dichloroethene	ND	0.65	1.0									
Methyl tert-butyl ether	ND	0.24	1.0									
1,1-Dichloroethane	ND	0.25	1.0									
2-Butanone	ND	2.1	5.0									
cis-1,2-Dichloroethene	ND	0.48	1.0									
2,2-Dichloropropane	ND	0.30	1.0									
Bromochloromethane	ND	0.43	1.0									
Chloroform	ND	0.33	1.0									
1,1,1-Trichloroethane	ND	0.50	1.0									
1,1-Dichloropropene	ND	0.50	1.0									
Carbon tetrachloride	ND	0.54	1.0									
1,2-Dichloroethane	ND	0.41	1.0									
Benzene	ND	0.33	1.0									
Trichloroethene	ND	0.36	1.0									
1,2-Dichloropropane	ND	0.61	1.0									
Dibromomethane	ND	0.49	1.0									
Bromodichloromethane	ND	0.26	1.0									
cis-1,3-Dichloropropene	ND	0.45	1.0									
4-Methyl-2-pentanone	ND	0.82	5.0									
Toluene	ND	0.32	1.0									
trans-1,3-Dichloropropene	ND	0.48	1.0									
1,1,2-Trichloroethane	ND	0.38	1.0									
1,3-Dichloropropane	ND	0.22	1.0									
Tetrachloroethene	ND	0.65	1.0									
2-Hexanone	ND	1.7	5.0									
Dibromochloromethane	ND	0.57	1.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83187** SampType: **MBLK** TestCode: **SW8260_W** Prep Date: **10/02/15 8:58** Run ID: **V5_151002A**
Client ID: **MB-83187** Batch ID: **83187** Units: **ug/L** Analysis Date: **10/02/15 11:22** SeqNo: **2313407**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.50	1.0									
Chlorobenzene	ND	0.26	1.0									
1,1,1,2-Tetrachloroethane	ND	0.41	1.0									
Ethylbenzene	ND	0.35	1.0									
m,p-Xylene	ND	0.77	1.0									
o-Xylene	ND	0.36	1.0									
Xylene (Total)	ND	0.36	1.0									
Styrene	ND	0.50	1.0									
Bromoform	ND	0.77	1.0									
Isopropylbenzene	ND	0.38	1.0									
1,1,2,2-Tetrachloroethane	ND	0.42	1.0									
Bromobenzene	ND	0.36	1.0									
1,2,3-Trichloropropane	ND	0.82	1.0									
n-Propylbenzene	ND	0.64	1.0									
2-Chlorotoluene	ND	0.54	1.0									
1,3,5-Trimethylbenzene	ND	0.45	1.0									
4-Chlorotoluene	ND	0.45	1.0									
tert-Butylbenzene	ND	0.37	1.0									
1,2,4-Trimethylbenzene	ND	0.40	1.0									
sec-Butylbenzene	ND	0.28	1.0									
4-Isopropyltoluene	ND	0.46	1.0									
1,3-Dichlorobenzene	ND	0.29	1.0									
1,4-Dichlorobenzene	ND	0.40	1.0									
n-Butylbenzene	ND	0.33	1.0									
1,2-Dichlorobenzene	ND	0.33	1.0									
1,2-Dibromo-3-chloropropane	ND	0.75	1.0									
1,2,4-Trichlorobenzene	ND	0.26	1.0									
Hexachlorobutadiene	ND	0.41	1.0									
1,2,3-Trichlorobenzene	ND	0.33	1.0									
Naphthalene	ND	0.80	1.0									
Tetrahydrofuran	ND	2.1	1.0									
Surrogate: Dibromofluoromethane	54.69		5.0	50.00	0	109	85	115		0		
Surrogate: 1,2-Dichloroethane-d4	49.56		5.0	50.00	0	99.1	70	120		0		
Surrogate: Toluene-d8	49.59		5.0	50.00	0	99.2	85	120		0		
Surrogate: Bromofluorobenzene	50.42		5.0	50.00	0	101	75	120		0		

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83187** SampType: **LCS** TestCode: **SW8260_W** Prep Date: **10/02/15 8:58** Run ID: **V5_151002A**

Client ID: **LCS-83187** Batch ID: **83187** Units: **ug/L** Analysis Date: **10/02/15 10:31** SeqNo: **2313405**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	40.86	0.66	5.0	50.00	0	81.7	30	155	0			
Chloromethane	55.37	0.26	5.0	50.00	0	111	40	125	0			
Vinyl chloride	52.39	0.50	5.0	50.00	0	105	50	145	0			
Bromomethane	56.00	0.80	5.0	50.00	0	112	30	145	0			
Chloroethane	53.96	0.48	5.0	50.00	0	108	60	135	0			
Trichlorofluoromethane	51.42	0.54	5.0	50.00	0	103	60	145	0			
1,1-Dichloroethene	51.47	0.39	5.0	50.00	0	103	70	130	0			
Acetone	64.18	2.2	5.0	50.00	0	128	40	140	0			
Carbon disulfide	55.26	0.34	5.0	50.00	0	111	35	160	0			
Methylene chloride	54.44	0.41	5.0	50.00	0	109	55	140	0			
trans-1,2-Dichloroethene	51.60	0.65	5.0	50.00	0	103	60	140	0			
Methyl tert-butyl ether	52.28	0.24	5.0	50.00	0	105	65	125	0			
1,1-Dichloroethane	55.17	0.25	5.0	50.00	0	110	70	135	0			
2-Butanone	55.89	2.1	5.0	50.00	0	112	30	150	0			
cis-1,2-Dichloroethene	51.94	0.48	5.0	50.00	0	104	70	125	0			
2,2-Dichloropropane	53.52	0.30	5.0	50.00	0	107	70	135	0			
Bromochloromethane	49.96	0.43	5.0	50.00	0	99.9	65	130	0			
Chloroform	53.54	0.33	5.0	50.00	0	107	65	135	0			
1,1,1-Trichloroethane	53.04	0.50	5.0	50.00	0	106	65	130	0			
1,1-Dichloropropene	53.02	0.50	5.0	50.00	0	106	75	130	0			
Carbon tetrachloride	52.88	0.54	5.0	50.00	0	106	65	140	0			
1,2-Dichloroethane	54.87	0.41	5.0	50.00	0	110	70	130	0			
Benzene	53.98	0.33	5.0	50.00	0	108	80	120	0			
Trichloroethene	52.65	0.36	5.0	50.00	0	105	70	125	0			
1,2-Dichloropropane	55.74	0.61	5.0	50.00	0	111	75	125	0			
Dibromomethane	55.57	0.49	5.0	50.00	0	111	75	125	0			
Bromodichloromethane	55.18	0.26	5.0	50.00	0	110	75	120	0			
cis-1,3-Dichloropropene	56.15	0.45	5.0	50.00	0	112	70	130	0			
4-Methyl-2-pentanone	54.53	0.82	5.0	50.00	0	109	60	135	0			
Toluene	53.47	0.32	5.0	50.00	0	107	75	120	0			
trans-1,3-Dichloropropene	54.25	0.48	5.0	50.00	0	108	55	140	0			
1,1,2-Trichloroethane	54.83	0.38	5.0	50.00	0	110	75	125	0			
1,3-Dichloropropane	52.70	0.22	5.0	50.00	0	105	75	125	0			
Tetrachloroethene	50.96	0.65	5.0	50.00	0	102	45	150	0			
2-Hexanone	54.71	1.7	5.0	50.00	0	109	55	130	0			
Dibromochloromethane	52.35	0.57	5.0	50.00	0	105	60	135	0			
1,2-Dibromoethane	50.64	0.50	5.0	50.00	0	101	80	120	0			
Chlorobenzene	50.10	0.26	5.0	50.00	0	100	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_W

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83187** SampType: **LCS** TestCode: **SW8260_W** Prep Date: **10/02/15 8:58** Run ID: **V5_151002A**
Client ID: **LCS-83187** Batch ID: **83187** Units: **ug/L** Analysis Date: **10/02/15 10:31** SeqNo: **2313405**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	49.30	0.41	5.0	50.00	0	98.6	80	130	0			
Ethylbenzene	50.66	0.35	5.0	50.00	0	101	75	125	0			
m,p-Xylene	104.9	0.77	5.0	100.0	0	105	75	130	0			
o-Xylene	51.46	0.36	5.0	50.00	0	103	80	120	0			
Xylene (Total)	156.4	0.36	5.0	150.0	0	104	81	121	0			
Styrene	49.20	0.50	5.0	50.00	0	98.4	65	135	0			
Bromoform	54.93	0.77	5.0	50.00	0	110	70	130	0			
Isopropylbenzene	51.49	0.38	5.0	50.00	0	103	75	125	0			
1,1,2,2-Tetrachloroethane	53.91	0.42	5.0	50.00	0	108	65	130	0			
Bromobenzene	53.95	0.36	5.0	50.00	0	108	75	125	0			
1,2,3-Trichloropropane	56.31	0.82	5.0	50.00	0	113	75	125	0			
n-Propylbenzene	54.63	0.64	5.0	50.00	0	109	70	130	0			
2-Chlorotoluene	52.40	0.54	5.0	50.00	0	105	75	125	0			
1,3,5-Trimethylbenzene	55.22	0.45	5.0	50.00	0	110	75	130	0			
4-Chlorotoluene	54.55	0.45	5.0	50.00	0	109	75	130	0			
tert-Butylbenzene	53.07	0.37	5.0	50.00	0	106	70	130	0			
1,2,4-Trimethylbenzene	54.42	0.40	5.0	50.00	0	109	75	130	0			
sec-Butylbenzene	53.41	0.28	5.0	50.00	0	107	70	125	0			
4-Isopropyltoluene	54.56	0.46	5.0	50.00	0	109	75	130	0			
1,3-Dichlorobenzene	53.57	0.29	5.0	50.00	0	107	75	125	0			
1,4-Dichlorobenzene	52.37	0.40	5.0	50.00	0	105	75	125	0			
n-Butylbenzene	53.73	0.33	5.0	50.00	0	107	70	135	0			
1,2-Dichlorobenzene	51.57	0.33	5.0	50.00	0	103	70	120	0			
1,2-Dibromo-3-chloropropane	57.96	0.75	5.0	50.00	0	116	50	130	0			
1,2,4-Trichlorobenzene	55.16	0.26	5.0	50.00	0	110	65	135	0			
Hexachlorobutadiene	54.06	0.41	5.0	50.00	0	108	50	140	0			
1,2,3-Trichlorobenzene	54.86	0.33	5.0	50.00	0	110	55	140	0			
Naphthalene	54.55	0.80	5.0	50.00	0	109	55	140	0			
Tetrahydrofuran	111.6	2.1	10	100.0	0	112	76	126	0			
Surrogate: Dibromofluoromethane	52.22		5.0	50.00	0	104	85	115	0			
Surrogate: 1,2-Dichloroethane-d4	51.59		5.0	50.00	0	103	70	120	0			
Surrogate: Toluene-d8	48.90		5.0	50.00	0	97.8	85	120	0			
Surrogate: Bromofluorobenzene	53.33		5.0	50.00	0	107	75	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01
Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_W**
Gasoline Range Organics	ND		100	ug/L	1	10/02/2015 15:36	83193
Surrogate: Bromofluorobenzene	96.4		87-112	%REC	1	10/02/2015 15:36	83193

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_W**
Gasoline Range Organics	ND		100	ug/L	1	10/02/2015 15:57	83193
Surrogate: Bromofluorobenzene	97.8		87-112	%REC	1	10/02/2015 15:57	83193

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03
Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_W**
Gasoline Range Organics	ND		100	ug/L	1	10/02/2015 16:19	83193
Surrogate: Bromofluorobenzene	92.9		87-112	%REC	1	10/02/2015 16:19	83193

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

GRO_W

SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID

Sample ID: **MB-83193** SampType: **MBLK** TestCode: **GRO_W** Prep Date: **10/02/15 9:33** Run ID: **V4_151002A**
Client ID: **MB-83193** Batch ID: **83193** Units: **ug/L** Analysis Date: **10/02/15 11:06** SeqNo: **2313641**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	5.8	100									
Surrogate: Bromofluorobenzene	20.53		5.0	20.00	0	103	87	112	0			

Sample ID: **LCS-83193** SampType: **LCS** TestCode: **GRO_W** Prep Date: **10/02/15 9:33** Run ID: **V4_151002A**
Client ID: **LCS-83193** Batch ID: **83193** Units: **ug/L** Analysis Date: **10/02/15 10:03** SeqNo: **2313640**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	489.1	5.8	100	500.0	0	97.8	80	120	0			
Surrogate: Bromofluorobenzene	22.14		5.0	20.00	0	111	87	112	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01

Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Phenol	ND		10	ug/L	1	10/07/2015 15:45	83186
Bis(2-chloroethyl)ether	ND		10	ug/L	1	10/07/2015 15:45	83186
2-Chlorophenol	ND		10	ug/L	1	10/07/2015 15:45	83186
1,3-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 15:45	83186
1,4-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 15:45	83186
1,2-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 15:45	83186
2-Methylphenol	ND		10	ug/L	1	10/07/2015 15:45	83186
4-Methylphenol	ND		10	ug/L	1	10/07/2015 15:45	83186
N-Nitroso-di-n-propylamine	ND		10	ug/L	1	10/07/2015 15:45	83186
Hexachloroethane	ND		10	ug/L	1	10/07/2015 15:45	83186
Nitrobenzene	ND		10	ug/L	1	10/07/2015 15:45	83186
Isophorone	ND		10	ug/L	1	10/07/2015 15:45	83186
2-Nitrophenol	ND		10	ug/L	1	10/07/2015 15:45	83186
2,4-Dimethylphenol	ND		10	ug/L	1	10/07/2015 15:45	83186
2,4-Dichlorophenol	ND		10	ug/L	1	10/07/2015 15:45	83186
1,2,4-Trichlorobenzene	ND		10	ug/L	1	10/07/2015 15:45	83186
Naphthalene	ND		10	ug/L	1	10/07/2015 15:45	83186
4-Chloroaniline	ND		10	ug/L	1	10/07/2015 15:45	83186
Bis(2-chloroethoxy)methane	ND		10	ug/L	1	10/07/2015 15:45	83186
Hexachlorobutadiene	ND		10	ug/L	1	10/07/2015 15:45	83186
4-Chloro-3-methylphenol	ND		10	ug/L	1	10/07/2015 15:45	83186
2-Methylnaphthalene	ND		10	ug/L	1	10/07/2015 15:45	83186
Hexachlorocyclopentadiene	ND		10	ug/L	1	10/07/2015 15:45	83186
2,4,6-Trichlorophenol	ND		10	ug/L	1	10/07/2015 15:45	83186
2,4,5-Trichlorophenol	ND		20	ug/L	1	10/07/2015 15:45	83186
2-Chloronaphthalene	ND		10	ug/L	1	10/07/2015 15:45	83186
2-Nitroaniline	ND		20	ug/L	1	10/07/2015 15:45	83186
Dimethylphthalate	1.6	J	10	ug/L	1	10/07/2015 15:45	83186
Acenaphthylene	ND		10	ug/L	1	10/07/2015 15:45	83186
2,6-Dinitrotoluene	ND		10	ug/L	1	10/07/2015 15:45	83186
3-Nitroaniline	ND		20	ug/L	1	10/07/2015 15:45	83186
Acenaphthene	ND		10	ug/L	1	10/07/2015 15:45	83186
2,4-Dinitrophenol	ND		20	ug/L	1	10/07/2015 15:45	83186
4-Nitrophenol	ND		20	ug/L	1	10/07/2015 15:45	83186
Dibenzofuran	ND		10	ug/L	1	10/07/2015 15:45	83186
2,4-Dinitrotoluene	ND		10	ug/L	1	10/07/2015 15:45	83186
Diethylphthalate	ND		10	ug/L	1	10/07/2015 15:45	83186
4-Chlorophenyl-phenylether	ND		10	ug/L	1	10/07/2015 15:45	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01
Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Fluorene	ND		10	ug/L	1	10/07/2015 15:45	83186
4-Nitroaniline	ND		20	ug/L	1	10/07/2015 15:45	83186
4,6-Dinitro-2-methylphenol	ND		20	ug/L	1	10/07/2015 15:45	83186
N-Nitrosodiphenylamine	ND		10	ug/L	1	10/07/2015 15:45	83186
4-Bromophenyl-phenylether	ND		10	ug/L	1	10/07/2015 15:45	83186
Hexachlorobenzene	ND		10	ug/L	1	10/07/2015 15:45	83186
Pentachlorophenol	ND		20	ug/L	1	10/07/2015 15:45	83186
Phenanthrene	ND		10	ug/L	1	10/07/2015 15:45	83186
Anthracene	ND		10	ug/L	1	10/07/2015 15:45	83186
Carbazole	ND		10	ug/L	1	10/07/2015 15:45	83186
Di-n-butylphthalate	ND		10	ug/L	1	10/07/2015 15:45	83186
Fluoranthene	ND		10	ug/L	1	10/07/2015 15:45	83186
Pyrene	ND		10	ug/L	1	10/07/2015 15:45	83186
Butylbenzylphthalate	ND		10	ug/L	1	10/07/2015 15:45	83186
3,3´-Dichlorobenzidine	ND		10	ug/L	1	10/07/2015 15:45	83186
Benzo(a)anthracene	ND		10	ug/L	1	10/07/2015 15:45	83186
Chrysene	ND		10	ug/L	1	10/07/2015 15:45	83186
Bis(2-ethylhexyl)phthalate	ND		10	ug/L	1	10/07/2015 15:45	83186
Di-n-octylphthalate	ND		10	ug/L	1	10/07/2015 15:45	83186
Benzo(b)fluoranthene	ND		10	ug/L	1	10/07/2015 15:45	83186
Benzo(k)fluoranthene	ND		10	ug/L	1	10/07/2015 15:45	83186
Benzo(a)pyrene	ND		10	ug/L	1	10/07/2015 15:45	83186
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	1	10/07/2015 15:45	83186
Dibenzo(a,h)anthracene	ND		10	ug/L	1	10/07/2015 15:45	83186
Benzo(g,h,i)perylene	ND		10	ug/L	1	10/07/2015 15:45	83186
1,1´-Biphenyl	ND		10	ug/L	1	10/07/2015 15:45	83186
3-Methylphenol + 4-Methylphenol	ND		10	ug/L	1	10/07/2015 15:45	83186
Acetophenone	ND		10	ug/L	1	10/07/2015 15:45	83186
Aniline	ND		10	ug/L	1	10/07/2015 15:45	83186
Azobenzene	ND		10	ug/L	1	10/07/2015 15:45	83186
Benzidine	ND		10	ug/L	1	10/07/2015 15:45	83186
Benzoic acid	ND		20	ug/L	1	10/07/2015 15:45	83186
Benzyl alcohol	ND		10	ug/L	1	10/07/2015 15:45	83186
Bis(2-chloroisopropyl)ether	ND		10	ug/L	1	10/07/2015 15:45	83186
N-Nitrosodimethylamine	ND		10	ug/L	1	10/07/2015 15:45	83186
Surrogate: Nitrobenzene-d5	84.2		40-110	%REC	1	10/07/2015 15:45	83186
Surrogate: 2-Fluorobiphenyl	74.5		50-110	%REC	1	10/07/2015 15:45	83186
Surrogate: Terphenyl-d14	91.9		50-135	%REC	1	10/07/2015 15:45	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01
Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Surrogate: Phenol-d5	16.0		10-115	%REC	1	10/07/2015 15:45	83186
Surrogate: 2-Fluorophenol	27.2		20-110	%REC	1	10/07/2015 15:45	83186
Surrogate: 2,4,6-Tribromophenol	48.9		40-125	%REC	1	10/07/2015 15:45	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Phenol	ND		10	ug/L	1	10/07/2015 16:12	83186
Bis(2-chloroethyl)ether	ND		10	ug/L	1	10/07/2015 16:12	83186
2-Chlorophenol	ND		10	ug/L	1	10/07/2015 16:12	83186
1,3-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 16:12	83186
1,4-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 16:12	83186
1,2-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 16:12	83186
2-Methylphenol	ND		10	ug/L	1	10/07/2015 16:12	83186
4-Methylphenol	ND		10	ug/L	1	10/07/2015 16:12	83186
N-Nitroso-di-n-propylamine	ND		10	ug/L	1	10/07/2015 16:12	83186
Hexachloroethane	ND		10	ug/L	1	10/07/2015 16:12	83186
Nitrobenzene	ND		10	ug/L	1	10/07/2015 16:12	83186
Isophorone	ND		10	ug/L	1	10/07/2015 16:12	83186
2-Nitrophenol	ND		10	ug/L	1	10/07/2015 16:12	83186
2,4-Dimethylphenol	ND		10	ug/L	1	10/07/2015 16:12	83186
2,4-Dichlorophenol	ND		10	ug/L	1	10/07/2015 16:12	83186
1,2,4-Trichlorobenzene	ND		10	ug/L	1	10/07/2015 16:12	83186
Naphthalene	ND		10	ug/L	1	10/07/2015 16:12	83186
4-Chloroaniline	ND		10	ug/L	1	10/07/2015 16:12	83186
Bis(2-chloroethoxy)methane	ND		10	ug/L	1	10/07/2015 16:12	83186
Hexachlorobutadiene	ND		10	ug/L	1	10/07/2015 16:12	83186
4-Chloro-3-methylphenol	ND		10	ug/L	1	10/07/2015 16:12	83186
2-Methylnaphthalene	ND		10	ug/L	1	10/07/2015 16:12	83186
Hexachlorocyclopentadiene	ND		10	ug/L	1	10/07/2015 16:12	83186
2,4,6-Trichlorophenol	ND		10	ug/L	1	10/07/2015 16:12	83186
2,4,5-Trichlorophenol	ND		20	ug/L	1	10/07/2015 16:12	83186
2-Chloronaphthalene	ND		10	ug/L	1	10/07/2015 16:12	83186
2-Nitroaniline	ND		20	ug/L	1	10/07/2015 16:12	83186
Dimethylphthalate	3.2	J	10	ug/L	1	10/07/2015 16:12	83186
Acenaphthylene	ND		10	ug/L	1	10/07/2015 16:12	83186
2,6-Dinitrotoluene	ND		10	ug/L	1	10/07/2015 16:12	83186
3-Nitroaniline	ND		20	ug/L	1	10/07/2015 16:12	83186
Acenaphthene	ND		10	ug/L	1	10/07/2015 16:12	83186
2,4-Dinitrophenol	ND		20	ug/L	1	10/07/2015 16:12	83186
4-Nitrophenol	ND		20	ug/L	1	10/07/2015 16:12	83186
Dibenzofuran	ND		10	ug/L	1	10/07/2015 16:12	83186
2,4-Dinitrotoluene	ND		10	ug/L	1	10/07/2015 16:12	83186
Diethylphthalate	ND		10	ug/L	1	10/07/2015 16:12	83186
4-Chlorophenyl-phenylether	ND		10	ug/L	1	10/07/2015 16:12	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Fluorene	ND		10	ug/L	1	10/07/2015 16:12	83186
4-Nitroaniline	ND		20	ug/L	1	10/07/2015 16:12	83186
4,6-Dinitro-2-methylphenol	ND		20	ug/L	1	10/07/2015 16:12	83186
N-Nitrosodiphenylamine	ND		10	ug/L	1	10/07/2015 16:12	83186
4-Bromophenyl-phenylether	ND		10	ug/L	1	10/07/2015 16:12	83186
Hexachlorobenzene	ND		10	ug/L	1	10/07/2015 16:12	83186
Pentachlorophenol	ND		20	ug/L	1	10/07/2015 16:12	83186
Phenanthrene	ND		10	ug/L	1	10/07/2015 16:12	83186
Anthracene	ND		10	ug/L	1	10/07/2015 16:12	83186
Carbazole	ND		10	ug/L	1	10/07/2015 16:12	83186
Di-n-butylphthalate	ND		10	ug/L	1	10/07/2015 16:12	83186
Fluoranthene	ND		10	ug/L	1	10/07/2015 16:12	83186
Pyrene	ND		10	ug/L	1	10/07/2015 16:12	83186
Butylbenzylphthalate	ND		10	ug/L	1	10/07/2015 16:12	83186
3,3´-Dichlorobenzidine	ND		10	ug/L	1	10/07/2015 16:12	83186
Benzo(a)anthracene	ND		10	ug/L	1	10/07/2015 16:12	83186
Chrysene	ND		10	ug/L	1	10/07/2015 16:12	83186
Bis(2-ethylhexyl)phthalate	1.6	J	10	ug/L	1	10/07/2015 16:12	83186
Di-n-octylphthalate	ND		10	ug/L	1	10/07/2015 16:12	83186
Benzo(b)fluoranthene	ND		10	ug/L	1	10/07/2015 16:12	83186
Benzo(k)fluoranthene	ND		10	ug/L	1	10/07/2015 16:12	83186
Benzo(a)pyrene	ND		10	ug/L	1	10/07/2015 16:12	83186
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	1	10/07/2015 16:12	83186
Dibenzo(a,h)anthracene	ND		10	ug/L	1	10/07/2015 16:12	83186
Benzo(g,h,i)perylene	ND		10	ug/L	1	10/07/2015 16:12	83186
1,1´-Biphenyl	ND		10	ug/L	1	10/07/2015 16:12	83186
3-Methylphenol + 4-Methylphenol	ND		10	ug/L	1	10/07/2015 16:12	83186
Acetophenone	ND		10	ug/L	1	10/07/2015 16:12	83186
Aniline	ND		10	ug/L	1	10/07/2015 16:12	83186
Azobenzene	ND		10	ug/L	1	10/07/2015 16:12	83186
Benzidine	ND		10	ug/L	1	10/07/2015 16:12	83186
Benzoic acid	ND		20	ug/L	1	10/07/2015 16:12	83186
Benzyl alcohol	ND		10	ug/L	1	10/07/2015 16:12	83186
Bis(2-chloroisopropyl)ether	ND		10	ug/L	1	10/07/2015 16:12	83186
N-Nitrosodimethylamine	ND		10	ug/L	1	10/07/2015 16:12	83186
Surrogate: Nitrobenzene-d5	85.9		40-110	%REC	1	10/07/2015 16:12	83186
Surrogate: 2-Fluorobiphenyl	84.6		50-110	%REC	1	10/07/2015 16:12	83186
Surrogate: Terphenyl-d14	102		50-135	%REC	1	10/07/2015 16:12	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Surrogate: Phenol-d5	17.9		10-115	%REC	1	10/07/2015 16:12	83186
Surrogate: 2-Fluorophenol	29.5		20-110	%REC	1	10/07/2015 16:12	83186
Surrogate: 2,4,6-Tribromophenol	61.1		40-125	%REC	1	10/07/2015 16:12	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03
Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Phenol	ND		10	ug/L	1	10/07/2015 16:39	83186
Bis(2-chloroethyl)ether	ND		10	ug/L	1	10/07/2015 16:39	83186
2-Chlorophenol	ND		10	ug/L	1	10/07/2015 16:39	83186
1,3-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 16:39	83186
1,4-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 16:39	83186
1,2-Dichlorobenzene	ND		10	ug/L	1	10/07/2015 16:39	83186
2-Methylphenol	ND		10	ug/L	1	10/07/2015 16:39	83186
4-Methylphenol	ND		10	ug/L	1	10/07/2015 16:39	83186
N-Nitroso-di-n-propylamine	ND		10	ug/L	1	10/07/2015 16:39	83186
Hexachloroethane	ND		10	ug/L	1	10/07/2015 16:39	83186
Nitrobenzene	ND		10	ug/L	1	10/07/2015 16:39	83186
Isophorone	ND		10	ug/L	1	10/07/2015 16:39	83186
2-Nitrophenol	ND		10	ug/L	1	10/07/2015 16:39	83186
2,4-Dimethylphenol	ND		10	ug/L	1	10/07/2015 16:39	83186
2,4-Dichlorophenol	ND		10	ug/L	1	10/07/2015 16:39	83186
1,2,4-Trichlorobenzene	ND		10	ug/L	1	10/07/2015 16:39	83186
Naphthalene	ND		10	ug/L	1	10/07/2015 16:39	83186
4-Chloroaniline	ND		10	ug/L	1	10/07/2015 16:39	83186
Bis(2-chloroethoxy)methane	ND		10	ug/L	1	10/07/2015 16:39	83186
Hexachlorobutadiene	ND		10	ug/L	1	10/07/2015 16:39	83186
4-Chloro-3-methylphenol	ND		10	ug/L	1	10/07/2015 16:39	83186
2-Methylnaphthalene	ND		10	ug/L	1	10/07/2015 16:39	83186
Hexachlorocyclopentadiene	ND		10	ug/L	1	10/07/2015 16:39	83186
2,4,6-Trichlorophenol	ND		10	ug/L	1	10/07/2015 16:39	83186
2,4,5-Trichlorophenol	ND		20	ug/L	1	10/07/2015 16:39	83186
2-Chloronaphthalene	ND		10	ug/L	1	10/07/2015 16:39	83186
2-Nitroaniline	ND		20	ug/L	1	10/07/2015 16:39	83186
Dimethylphthalate	1.6	J	10	ug/L	1	10/07/2015 16:39	83186
Acenaphthylene	ND		10	ug/L	1	10/07/2015 16:39	83186
2,6-Dinitrotoluene	ND		10	ug/L	1	10/07/2015 16:39	83186
3-Nitroaniline	ND		20	ug/L	1	10/07/2015 16:39	83186
Acenaphthene	ND		10	ug/L	1	10/07/2015 16:39	83186
2,4-Dinitrophenol	ND		20	ug/L	1	10/07/2015 16:39	83186
4-Nitrophenol	ND		20	ug/L	1	10/07/2015 16:39	83186
Dibenzofuran	ND		10	ug/L	1	10/07/2015 16:39	83186
2,4-Dinitrotoluene	ND		10	ug/L	1	10/07/2015 16:39	83186
Diethylphthalate	ND		10	ug/L	1	10/07/2015 16:39	83186
4-Chlorophenyl-phenylether	ND		10	ug/L	1	10/07/2015 16:39	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03

Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Fluorene	ND		10	ug/L	1	10/07/2015 16:39	83186
4-Nitroaniline	ND		20	ug/L	1	10/07/2015 16:39	83186
4,6-Dinitro-2-methylphenol	ND		20	ug/L	1	10/07/2015 16:39	83186
N-Nitrosodiphenylamine	ND		10	ug/L	1	10/07/2015 16:39	83186
4-Bromophenyl-phenylether	ND		10	ug/L	1	10/07/2015 16:39	83186
Hexachlorobenzene	ND		10	ug/L	1	10/07/2015 16:39	83186
Pentachlorophenol	ND		20	ug/L	1	10/07/2015 16:39	83186
Phenanthrene	ND		10	ug/L	1	10/07/2015 16:39	83186
Anthracene	ND		10	ug/L	1	10/07/2015 16:39	83186
Carbazole	ND		10	ug/L	1	10/07/2015 16:39	83186
Di-n-butylphthalate	ND		10	ug/L	1	10/07/2015 16:39	83186
Fluoranthene	ND		10	ug/L	1	10/07/2015 16:39	83186
Pyrene	ND		10	ug/L	1	10/07/2015 16:39	83186
Butylbenzylphthalate	ND		10	ug/L	1	10/07/2015 16:39	83186
3,3´-Dichlorobenzidine	ND		10	ug/L	1	10/07/2015 16:39	83186
Benzo(a)anthracene	ND		10	ug/L	1	10/07/2015 16:39	83186
Chrysene	ND		10	ug/L	1	10/07/2015 16:39	83186
Bis(2-ethylhexyl)phthalate	ND		10	ug/L	1	10/07/2015 16:39	83186
Di-n-octylphthalate	ND		10	ug/L	1	10/07/2015 16:39	83186
Benzo(b)fluoranthene	ND		10	ug/L	1	10/07/2015 16:39	83186
Benzo(k)fluoranthene	ND		10	ug/L	1	10/07/2015 16:39	83186
Benzo(a)pyrene	ND		10	ug/L	1	10/07/2015 16:39	83186
Indeno(1,2,3-cd)pyrene	ND		10	ug/L	1	10/07/2015 16:39	83186
Dibenzo(a,h)anthracene	ND		10	ug/L	1	10/07/2015 16:39	83186
Benzo(g,h,i)perylene	ND		10	ug/L	1	10/07/2015 16:39	83186
1,1´-Biphenyl	ND		10	ug/L	1	10/07/2015 16:39	83186
3-Methylphenol + 4-Methylphenol	ND		10	ug/L	1	10/07/2015 16:39	83186
Acetophenone	ND		10	ug/L	1	10/07/2015 16:39	83186
Aniline	ND		10	ug/L	1	10/07/2015 16:39	83186
Azobenzene	ND		10	ug/L	1	10/07/2015 16:39	83186
Benzidine	ND		10	ug/L	1	10/07/2015 16:39	83186
Benzoic acid	ND		20	ug/L	1	10/07/2015 16:39	83186
Benzyl alcohol	ND		10	ug/L	1	10/07/2015 16:39	83186
Bis(2-chloroisopropyl)ether	ND		10	ug/L	1	10/07/2015 16:39	83186
N-Nitrosodimethylamine	ND		10	ug/L	1	10/07/2015 16:39	83186
Surrogate: Nitrobenzene-d5	97.6		40-110	%REC	1	10/07/2015 16:39	83186
Surrogate: 2-Fluorobiphenyl	94.3		50-110	%REC	1	10/07/2015 16:39	83186
Surrogate: Terphenyl-d14	108		50-135	%REC	1	10/07/2015 16:39	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03
Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_W**
Surrogate: Phenol-d5	18.4		10-115	%REC	1	10/07/2015 16:39	83186
Surrogate: 2-Fluorophenol	31.3		20-110	%REC	1	10/07/2015 16:39	83186
Surrogate: 2,4,6-Tribromophenol	63.7		40-125	%REC	1	10/07/2015 16:39	83186

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83186** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S3_151005B**

Client ID: **MB-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/05/15 16:18** SeqNo: **2313188**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	0.75	10									
Bis(2-chloroethyl)ether	ND	0.75	10									
2-Chlorophenol	ND	0.61	10									
1,3-Dichlorobenzene	ND	0.71	10									
1,4-Dichlorobenzene	ND	1.1	10									
1,2-Dichlorobenzene	ND	0.84	10									
2-Methylphenol	ND	0.96	10									
4-Methylphenol	ND	1.4	10									
N-Nitroso-di-n-propylamine	ND	0.63	10									
Hexachloroethane	ND	0.55	10									
Nitrobenzene	ND	1.6	10									
Isophorone	ND	0.47	10									
2-Nitrophenol	ND	0.60	10									
2,4-Dimethylphenol	ND	1.8	10									
2,4-Dichlorophenol	ND	0.57	10									
1,2,4-Trichlorobenzene	ND	0.93	10									
Naphthalene	ND	0.96	10									
4-Chloroaniline	ND	2.0	10									
Bis(2-chloroethoxy)methane	ND	1.1	10									
Hexachlorobutadiene	ND	0.75	10									
4-Chloro-3-methylphenol	ND	0.60	10									
2-Methylnaphthalene	ND	0.94	10									
Hexachlorocyclopentadiene	ND	1.0	10									
2,4,6-Trichlorophenol	ND	0.53	10									
2,4,5-Trichlorophenol	ND	0.26	20									
2-Chloronaphthalene	ND	0.81	10									
2-Nitroaniline	ND	0.71	20									
Dimethylphthalate	ND	0.37	10									
Acenaphthylene	ND	0.42	10									
2,6-Dinitrotoluene	ND	0.52	10									
3-Nitroaniline	ND	0.97	20									
Acenaphthene	ND	0.65	10									
2,4-Dinitrophenol	ND	3.5	20									
4-Nitrophenol	ND	0.53	20									
Dibenzofuran	ND	0.52	10									
2,4-Dinitrotoluene	ND	0.41	10									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83186** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S3_151005B**
Client ID: **MB-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/05/15 16:18** SeqNo: **2313188**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylphthalate	ND	0.45	10									
4-Chlorophenyl-phenylether	ND	0.41	10									
Fluorene	ND	0.44	10									
4-Nitroaniline	ND	0.96	20									
4,6-Dinitro-2-methylphenol	ND	0.79	20									
N-Nitrosodiphenylamine	ND	1.1	10									
4-Bromophenyl-phenylether	ND	0.54	10									
Hexachlorobenzene	ND	0.44	10									
Pentachlorophenol	ND	1.7	20									
Phenanthrene	ND	0.45	10									
Anthracene	ND	0.48	10									
Carbazole	ND	0.64	10									
Di-n-butylphthalate	ND	0.48	10									
Fluoranthene	ND	0.33	10									
Pyrene	ND	0.44	10									
Butylbenzylphthalate	ND	0.32	10									
3,3´-Dichlorobenzidine	ND	1.7	10									
Benzo(a)anthracene	ND	0.40	10									
Chrysene	ND	0.42	10									
Bis(2-ethylhexyl)phthalate	ND	1.3	10									
Di-n-octylphthalate	ND	0.47	10									
Benzo(b)fluoranthene	ND	0.94	10									
Benzo(k)fluoranthene	ND	1.2	10									
Benzo(a)pyrene	ND	1.2	10									
Indeno(1,2,3-cd)pyrene	ND	0.38	10									
Dibenzo(a,h)anthracene	ND	0.44	10									
Benzo(g,h,i)perylene	ND	0.39	10									
Surrogate: Nitrobenzene-d5	41.22		10	50.00	0	82.4	40	110	0			
Surrogate: 2-Fluorobiphenyl	44.00		10	50.00	0	88.0	50	110	0			
Surrogate: Terphenyl-d14	42.20		10	50.00	0	84.4	50	135	0			
Surrogate: Phenol-d5	41.80		10	50.00	0	83.6	10	115	0			
Surrogate: 2-Fluorophenol	38.67		10	50.00	0	77.3	20	110	0			
Surrogate: 2,4,6-Tribromophenol	39.27		10	50.00	0	78.5	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83186** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S6_151007A**
Client ID: **MB-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/07/15 13:59** SeqNo: **2314818**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	0.75	10									
Bis(2-chloroethyl)ether	ND	0.75	10									
2-Chlorophenol	ND	0.61	10									
1,3-Dichlorobenzene	ND	0.71	10									
1,4-Dichlorobenzene	ND	1.1	10									
1,2-Dichlorobenzene	ND	0.84	10									
2-Methylphenol	ND	0.96	10									
4-Methylphenol	ND	1.4	10									
N-Nitroso-di-n-propylamine	ND	0.63	10									
Hexachloroethane	ND	0.55	10									
Nitrobenzene	ND	1.6	10									
Isophorone	ND	0.47	10									
2-Nitrophenol	ND	0.60	10									
2,4-Dimethylphenol	ND	1.8	10									
2,4-Dichlorophenol	ND	0.57	10									
1,2,4-Trichlorobenzene	ND	0.93	10									
Naphthalene	ND	0.96	10									
4-Chloroaniline	ND	2.0	10									
Bis(2-chloroethoxy)methane	ND	1.1	10									
Hexachlorobutadiene	ND	0.75	10									
4-Chloro-3-methylphenol	ND	0.60	10									
2-Methylnaphthalene	ND	0.94	10									
Hexachlorocyclopentadiene	ND	1.0	10									
2,4,6-Trichlorophenol	ND	0.53	10									
2,4,5-Trichlorophenol	ND	0.26	20									
2-Chloronaphthalene	ND	0.81	10									
2-Nitroaniline	ND	0.71	20									
Dimethylphthalate	ND	0.37	10									
Acenaphthylene	ND	0.42	10									
2,6-Dinitrotoluene	ND	0.52	10									
3-Nitroaniline	ND	0.97	20									
Acenaphthene	ND	0.65	10									
2,4-Dinitrophenol	ND	3.5	20									
4-Nitrophenol	ND	0.53	20									
Dibenzofuran	ND	0.52	10									
2,4-Dinitrotoluene	ND	0.41	10									
Diethylphthalate	ND	0.45	10									
4-Chlorophenyl-phenylether	ND	0.41	10									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83186** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S6_151007A**
Client ID: **MB-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/07/15 13:59** SeqNo: **2314818**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	0.44	10									
4-Nitroaniline	ND	0.96	20									
4,6-Dinitro-2-methylphenol	ND	0.79	20									
N-Nitrosodiphenylamine	ND	1.1	10									
4-Bromophenyl-phenylether	ND	0.54	10									
Hexachlorobenzene	ND	0.44	10									
Pentachlorophenol	ND	1.7	20									
Phenanthrene	ND	0.45	10									
Anthracene	ND	0.48	10									
Carbazole	ND	0.64	10									
Di-n-butylphthalate	ND	0.48	10									
Fluoranthene	ND	0.33	10									
Pyrene	ND	0.44	10									
Butylbenzylphthalate	ND	0.32	10									
3,3´-Dichlorobenzidine	ND	1.7	10									
Benzo(a)anthracene	ND	0.40	10									
Chrysene	ND	0.42	10									
Bis(2-ethylhexyl)phthalate	ND	1.3	10									
Di-n-octylphthalate	ND	0.47	10									
Benzo(b)fluoranthene	ND	0.94	10									
Benzo(k)fluoranthene	ND	1.2	10									
Benzo(a)pyrene	ND	1.2	10									
Indeno(1,2,3-cd)pyrene	ND	0.38	10									
Dibenzo(a,h)anthracene	ND	0.44	10									
Benzo(g,h,i)perylene	ND	0.39	10									
1,1´-Biphenyl	ND	0.65	10									
Acetophenone	ND	0.51	10									
Aniline	ND	1.3	10									
Azobenzene	ND	0.71	10									
Benzidine	ND	1.8	10									
Benzyl alcohol	ND	0.87	10									
N-Nitrosodimethylamine	ND	0.56	10									
Surrogate: Nitrobenzene-d5	45.76		10	50.00	0	91.5	40	110		0		
Surrogate: 2-Fluorobiphenyl	44.66		10	50.00	0	89.3	50	110		0		
Surrogate: Terphenyl-d14	52.56		10	50.00	0	105	50	135		0		
Surrogate: Phenol-d5	50.88		10	50.00	0	102	10	115		0		
Surrogate: 2-Fluorophenol	45.72		10	50.00	0	91.4	20	110		0		

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83186** SampType: **MBLK** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S6_151007A**
Client ID: **MB-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/07/15 13:59** SeqNo: **2314818**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 2,4,6-Tribromophenol	34.77		10	50.00	0	69.5	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83186** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S3_151005B**
Client ID: **LCS-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/05/15 16:35** SeqNo: **2313189**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	42.97	0.75	10	50.00	0	85.9	0	115	0			
Bis(2-chloroethyl)ether	34.97	0.75	10	50.00	0	69.9	35	110	0			
2-Chlorophenol	40.63	0.61	10	50.00	0	81.3	35	105	0			
1,3-Dichlorobenzene	39.85	0.71	10	50.00	0	79.7	30	100	0			
1,4-Dichlorobenzene	41.36	1.1	10	50.00	0	82.7	30	100	0			
1,2-Dichlorobenzene	40.79	0.84	10	50.00	0	81.6	35	100	0			
2-Methylphenol	41.59	0.96	10	50.00	0	83.2	40	110	0			
4-Methylphenol	43.04	1.4	10	50.00	0	86.1	30	110	0			
N-Nitroso-di-n-propylamine	44.17	0.63	10	50.00	0	88.3	35	130	0			
Hexachloroethane	40.54	0.55	10	50.00	0	81.1	30	95	0			
Nitrobenzene	43.13	1.6	10	50.00	0	86.3	45	110	0			
Isophorone	45.08	0.47	10	50.00	0	90.2	50	110	0			
2-Nitrophenol	43.39	0.60	10	50.00	0	86.8	40	115	0			
2,4-Dimethylphenol	46.31	1.8	10	50.00	0	92.6	30	110	0			
2,4-Dichlorophenol	44.97	0.57	10	50.00	0	89.9	50	105	0			
1,2,4-Trichlorobenzene	40.54	0.93	10	50.00	0	81.1	35	105	0			
Naphthalene	41.66	0.96	10	50.00	0	83.3	40	100	0			
4-Chloroaniline	49.70	2.0	10	50.00	0	99.4	15	110	0			
Bis(2-chloroethoxy)methane	42.37	1.1	10	50.00	0	84.7	45	105	0			
Hexachlorobutadiene	40.19	0.75	10	50.00	0	80.4	25	105	0			
4-Chloro-3-methylphenol	48.81	0.60	10	50.00	0	97.6	45	110	0			
2-Methylnaphthalene	33.45	0.94	10	50.00	0	66.9	45	105	0			
Hexachlorocyclopentadiene	39.16	1.0	10	50.00	0	78.3	27	147	0			
2,4,6-Trichlorophenol	42.08	0.53	10	50.00	0	84.2	50	115	0			
2,4,5-Trichlorophenol	39.96	0.26	20	50.00	0	79.9	50	110	0			
2-Chloronaphthalene	43.13	0.81	10	50.00	0	86.3	50	105	0			
2-Nitroaniline	45.40	0.71	20	50.00	0	90.8	50	115	0			
Dimethylphthalate	48.52	0.37	10	50.00	0	97.0	25	125	0			
Acenaphthylene	45.46	0.42	10	50.00	0	90.9	50	105	0			
2,6-Dinitrotoluene	47.60	0.52	10	50.00	0	95.2	50	115	0			
3-Nitroaniline	49.95	0.97	20	50.00	0	99.9	20	125	0			
Acenaphthene	45.25	0.65	10	50.00	0	90.5	45	110	0			
2,4-Dinitrophenol	12.09	3.5	20	50.00	0	24.2	15	140	0			J
4-Nitrophenol	41.01	0.53	20	50.00	0	82.0	0	125	0			
Dibenzofuran	46.41	0.52	10	50.00	0	92.8	55	105	0			
2,4-Dinitrotoluene	49.05	0.41	10	50.00	0	98.1	50	120	0			
Diethylphthalate	48.12	0.45	10	50.00	0	96.2	40	120	0			
4-Chlorophenyl-phenylether	45.23	0.41	10	50.00	0	90.5	50	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83186** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S3_151005B**
Client ID: **LCS-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/05/15 16:35** SeqNo: **2313189**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	48.60	0.44	10	50.00	0	97.2	50	110	0			
4-Nitroaniline	51.72	0.96	20	50.00	0	103	35	120	0			
4,6-Dinitro-2-methylphenol	34.75	0.79	20	50.00	0	69.5	40	130	0			
N-Nitrosodiphenylamine	45.25	1.1	10	50.00	0	90.5	50	110	0			
4-Bromophenyl-phenylether	44.55	0.54	10	50.00	0	89.1	50	115	0			
Hexachlorobenzene	44.82	0.44	10	50.00	0	89.6	50	110	0			
Pentachlorophenol	16.17	1.7	20	50.00	0	32.3	40	115	0			JS
Phenanthrene	45.88	0.45	10	50.00	0	91.8	50	115	0			
Anthracene	48.66	0.48	10	50.00	0	97.3	55	110	0			
Carbazole	48.38	0.64	10	50.00	0	96.8	50	115	0			
Di-n-butylphthalate	47.32	0.48	10	50.00	0	94.6	55	115	0			
Fluoranthene	50.60	0.33	10	50.00	0	101	55	115	0			
Pyrene	42.72	0.44	10	50.00	0	85.4	50	130	0			
Butylbenzylphthalate	43.83	0.32	10	50.00	0	87.7	45	115	0			
3,3´-Dichlorobenzidine	46.09	1.7	10	50.00	0	92.2	20	110	0			
Benzo(a)anthracene	44.60	0.40	10	50.00	0	89.2	55	110	0			
Chrysene	47.83	0.42	10	50.00	0	95.7	55	110	0			
Bis(2-ethylhexyl)phthalate	46.25	1.3	10	50.00	0	92.5	40	125	0			
Di-n-octylphthalate	45.16	0.47	10	50.00	0	90.3	35	135	0			
Benzo(b)fluoranthene	39.56	0.94	10	50.00	0	79.1	45	120	0			
Benzo(k)fluoranthene	54.09	1.2	10	50.00	0	108	45	125	0			
Benzo(a)pyrene	46.01	1.2	10	50.00	0	92.0	55	110	0			
Indeno(1,2,3-cd)pyrene	48.33	0.38	10	50.00	0	96.7	45	125	0			
Dibenzo(a,h)anthracene	47.21	0.44	10	50.00	0	94.4	40	125	0			
Benzo(g,h,i)perylene	46.53	0.39	10	50.00	0	93.1	40	125	0			
Surrogate: Nitrobenzene-d5	41.98		10	50.00	0	84.0	40	110	0			
Surrogate: 2-Fluorobiphenyl	43.37		10	50.00	0	86.7	50	110	0			
Surrogate: Terphenyl-d14	42.89		10	50.00	0	85.8	50	135	0			
Surrogate: Phenol-d5	41.31		10	50.00	0	82.6	10	115	0			
Surrogate: 2-Fluorophenol	36.41		10	50.00	0	72.8	20	110	0			
Surrogate: 2,4,6-Tribromophenol	42.53		10	50.00	0	85.1	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83186** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S6_151007A**
Client ID: **LCS-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/07/15 14:26** SeqNo: **2314819**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	43.24	0.75	10	50.00	0	86.5	0	115	0			
Bis(2-chloroethyl)ether	41.42	0.75	10	50.00	0	82.8	35	110	0			
2-Chlorophenol	41.75	0.61	10	50.00	0	83.5	35	105	0			
1,3-Dichlorobenzene	39.78	0.71	10	50.00	0	79.6	30	100	0			
1,4-Dichlorobenzene	39.63	1.1	10	50.00	0	79.3	30	100	0			
1,2-Dichlorobenzene	41.16	0.84	10	50.00	0	82.3	35	100	0			
2-Methylphenol	43.76	0.96	10	50.00	0	87.5	40	110	0			
4-Methylphenol	46.90	1.4	10	50.00	0	93.8	30	110	0			
N-Nitroso-di-n-propylamine	47.00	0.63	10	50.00	0	94.0	35	130	0			
Hexachloroethane	39.50	0.55	10	50.00	0	79.0	30	95	0			
Nitrobenzene	45.51	1.6	10	50.00	0	91.0	45	110	0			
Isophorone	45.27	0.47	10	50.00	0	90.5	50	110	0			
2-Nitrophenol	42.93	0.60	10	50.00	0	85.9	40	115	0			
2,4-Dimethylphenol	43.58	1.8	10	50.00	0	87.2	30	110	0			
2,4-Dichlorophenol	45.35	0.57	10	50.00	0	90.7	50	105	0			
1,2,4-Trichlorobenzene	40.94	0.93	10	50.00	0	81.9	35	105	0			
Naphthalene	42.82	0.96	10	50.00	0	85.6	40	100	0			
4-Chloroaniline	45.64	2.0	10	50.00	0	91.3	15	110	0			
Bis(2-chloroethoxy)methane	45.56	1.1	10	50.00	0	91.1	45	105	0			
Hexachlorobutadiene	41.63	0.75	10	50.00	0	83.3	25	105	0			
4-Chloro-3-methylphenol	49.66	0.60	10	50.00	0	99.3	45	110	0			
2-Methylnaphthalene	44.23	0.94	10	50.00	0	88.5	45	105	0			
Hexachlorocyclopentadiene	31.63	1.0	10	50.00	0	63.3	27	147	0			
2,4,6-Trichlorophenol	44.37	0.53	10	50.00	0	88.7	50	115	0			
2,4,5-Trichlorophenol	46.63	0.26	20	50.00	0	93.3	50	110	0			
2-Chloronaphthalene	45.21	0.81	10	50.00	0	90.4	50	105	0			
2-Nitroaniline	54.50	0.71	20	50.00	0	109	50	115	0			
Dimethylphthalate	51.29	0.37	10	50.00	0	103	25	125	0			
Acenaphthylene	48.36	0.42	10	50.00	0	96.7	50	105	0			
2,6-Dinitrotoluene	49.72	0.52	10	50.00	0	99.4	50	115	0			
3-Nitroaniline	51.70	0.97	20	50.00	0	103	20	125	0			
Acenaphthene	48.02	0.65	10	50.00	0	96.0	45	110	0			
2,4-Dinitrophenol	37.52	3.5	20	50.00	0	75.0	15	140	0			
4-Nitrophenol	56.25	0.53	20	50.00	0	112	0	125	0			
Dibenzofuran	48.89	0.52	10	50.00	0	97.8	55	105	0			
2,4-Dinitrotoluene	54.85	0.41	10	50.00	0	110	50	120	0			
Diethylphthalate	52.23	0.45	10	50.00	0	104	40	120	0			
4-Chlorophenyl-phenylether	49.92	0.41	10	50.00	0	99.8	50	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83186** SampType: **LCS** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S6_151007A**

Client ID: **LCS-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/07/15 14:26** SeqNo: **2314819**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	49.65	0.44	10	50.00	0	99.3	50	110	0			
4-Nitroaniline	58.79	0.96	20	50.00	0	118	35	120	0			
4,6-Dinitro-2-methylphenol	46.93	0.79	20	50.00	0	93.9	40	130	0			
N-Nitrosodiphenylamine	47.17	1.1	10	50.00	0	94.3	50	110	0			
4-Bromophenyl-phenylether	42.14	0.54	10	50.00	0	84.3	50	115	0			
Hexachlorobenzene	42.45	0.44	10	50.00	0	84.9	50	110	0			
Pentachlorophenol	19.78	1.7	20	50.00	0	39.6	40	115	0			JS
Phenanthrene	49.25	0.45	10	50.00	0	98.5	50	115	0			
Anthracene	49.66	0.48	10	50.00	0	99.3	55	110	0			
Carbazole	51.09	0.64	10	50.00	0	102	50	115	0			
Di-n-butylphthalate	52.06	0.48	10	50.00	0	104	55	115	0			
Fluoranthene	52.93	0.33	10	50.00	0	106	55	115	0			
Pyrene	48.82	0.44	10	50.00	0	97.6	50	130	0			
Butylbenzylphthalate	51.21	0.32	10	50.00	0	102	45	115	0			
3,3´-Dichlorobenzidine	54.71	1.7	10	50.00	0	109	20	110	0			
Benzo(a)anthracene	56.01	0.40	10	50.00	0	112	55	110	0			S
Chrysene	55.07	0.42	10	50.00	0	110	55	110	0			S
Bis(2-ethylhexyl)phthalate	53.17	1.3	10	50.00	0	106	40	125	0			
Di-n-octylphthalate	50.84	0.47	10	50.00	0	102	35	135	0			
Benzo(b)fluoranthene	50.43	0.94	10	50.00	0	101	45	120	0			
Benzo(k)fluoranthene	46.45	1.2	10	50.00	0	92.9	45	125	0			
Benzo(a)pyrene	48.56	1.2	10	50.00	0	97.1	55	110	0			
Indeno(1,2,3-cd)pyrene	47.49	0.38	10	50.00	0	95.0	45	125	0			
Dibenzo(a,h)anthracene	53.12	0.44	10	50.00	0	106	40	125	0			
Benzo(g,h,i)perylene	53.40	0.39	10	50.00	0	107	40	125	0			
1,1´-Biphenyl	46.97	0.65	10	50.00	0	93.9	55	108	0			
Acetophenone	43.86	0.51	10	50.00	0	87.7	56	145	0			
Azobenzene	50.76	0.71	10	50.00	0	102	46	117	0			
Surrogate: Nitrobenzene-d5	46.52		10	50.00	0	93.0	40	110	0			
Surrogate: 2-Fluorobiphenyl	45.52		10	50.00	0	91.0	50	110	0			
Surrogate: Terphenyl-d14	48.44		10	50.00	0	96.9	50	135	0			
Surrogate: Phenol-d5	45.25		10	50.00	0	90.5	10	115	0			
Surrogate: 2-Fluorophenol	40.88		10	50.00	0	81.8	20	110	0			
Surrogate: 2,4,6-Tribromophenol	36.88		10	50.00	0	73.8	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83186** SampType: **LCSD** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S3_151005B**

Client ID: **LCSD-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/05/15 16:57** SeqNo: **2313190**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	41.06	0.75	10	50.00	0	82.1	0	115	42.97	4.53	40	
Bis(2-chloroethyl)ether	33.34	0.75	10	50.00	0	66.7	35	110	34.97	4.78	40	
2-Chlorophenol	39.06	0.61	10	50.00	0	78.1	35	105	40.63	3.94	40	
1,3-Dichlorobenzene	37.46	0.71	10	50.00	0	74.9	30	100	39.85	6.19	40	
1,4-Dichlorobenzene	38.29	1.1	10	50.00	0	76.6	30	100	41.36	7.71	40	
1,2-Dichlorobenzene	38.81	0.84	10	50.00	0	77.6	35	100	40.79	4.96	40	
2-Methylphenol	40.57	0.96	10	50.00	0	81.1	40	110	41.59	2.47	40	
4-Methylphenol	42.19	1.4	10	50.00	0	84.4	30	110	43.04	1.99	40	
N-Nitroso-di-n-propylamine	43.58	0.63	10	50.00	0	87.2	35	130	44.17	1.36	40	
Hexachloroethane	38.19	0.55	10	50.00	0	76.4	30	95	40.54	5.98	40	
Nitrobenzene	40.05	1.6	10	50.00	0	80.1	45	110	43.13	7.4	40	
Isophorone	43.40	0.47	10	50.00	0	86.8	50	110	45.08	3.81	40	
2-Nitrophenol	40.14	0.60	10	50.00	0	80.3	40	115	43.39	7.79	40	
2,4-Dimethylphenol	44.04	1.8	10	50.00	0	88.1	30	110	46.31	5.02	40	
2,4-Dichlorophenol	43.36	0.57	10	50.00	0	86.7	50	105	44.97	3.65	40	
1,2,4-Trichlorobenzene	38.81	0.93	10	50.00	0	77.6	35	105	40.54	4.37	40	
Naphthalene	40.36	0.96	10	50.00	0	80.7	40	100	41.66	3.19	40	
4-Chloroaniline	46.01	2.0	10	50.00	0	92.0	15	110	49.70	7.72	40	
Bis(2-chloroethoxy)methane	40.82	1.1	10	50.00	0	81.6	45	105	42.37	3.73	40	
Hexachlorobutadiene	38.89	0.75	10	50.00	0	77.8	25	105	40.19	3.3	40	
4-Chloro-3-methylphenol	47.69	0.60	10	50.00	0	95.4	45	110	48.81	2.33	40	
2-Methylnaphthalene	32.21	0.94	10	50.00	0	64.4	45	105	33.45	3.76	40	
Hexachlorocyclopentadiene	37.55	1.0	10	50.00	0	75.1	27	147	39.16	4.18	40	
2,4,6-Trichlorophenol	39.20	0.53	10	50.00	0	78.4	50	115	42.08	7.08	40	
2,4,5-Trichlorophenol	41.74	0.26	20	50.00	0	83.5	50	110	39.96	4.35	40	
2-Chloronaphthalene	41.87	0.81	10	50.00	0	83.7	50	105	43.13	2.96	40	
2-Nitroaniline	44.70	0.71	20	50.00	0	89.4	50	115	45.40	1.57	40	
Dimethylphthalate	45.96	0.37	10	50.00	0	91.9	25	125	48.52	5.43	40	
Acenaphthylene	43.48	0.42	10	50.00	0	87.0	50	105	45.46	4.45	40	
2,6-Dinitrotoluene	45.20	0.52	10	50.00	0	90.4	50	115	47.60	5.16	40	
3-Nitroaniline	47.64	0.97	20	50.00	0	95.3	20	125	49.95	4.73	40	
Acenaphthene	43.68	0.65	10	50.00	0	87.4	45	110	45.25	3.53	40	
2,4-Dinitrophenol	9.898	3.5	20	50.00	0	19.8	15	140	12.09	20	40	J
4-Nitrophenol	39.46	0.53	20	50.00	0	78.9	0	125	41.01	3.84	40	
Dibenzofuran	45.01	0.52	10	50.00	0	90.0	55	105	46.41	3.07	40	
2,4-Dinitrotoluene	47.65	0.41	10	50.00	0	95.3	50	120	49.05	2.9	40	
Diethylphthalate	45.87	0.45	10	50.00	0	91.7	40	120	48.12	4.79	40	
4-Chlorophenyl-phenylether	43.12	0.41	10	50.00	0	86.2	50	110	45.23	4.76	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83186** SampType: **LCSD** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S3_151005B**
Client ID: **LCSD-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/05/15 16:57** SeqNo: **2313190**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	46.30	0.44	10	50.00	0	92.6	50	110	48.60	4.84	40	
4-Nitroaniline	47.45	0.96	20	50.00	0	94.9	35	120	51.72	8.61	40	
4,6-Dinitro-2-methylphenol	35.99	0.79	20	50.00	0	72.0	40	130	34.75	3.5	40	
N-Nitrosodiphenylamine	42.99	1.1	10	50.00	0	86.0	50	110	45.25	5.12	40	
4-Bromophenyl-phenylether	42.10	0.54	10	50.00	0	84.2	50	115	44.55	5.63	40	
Hexachlorobenzene	42.07	0.44	10	50.00	0	84.1	50	110	44.82	6.33	40	
Pentachlorophenol	9.882	1.7	20	50.00	0	19.8	40	115	16.17	48.3	40	JSR
Phenanthrene	43.90	0.45	10	50.00	0	87.8	50	115	45.88	4.42	40	
Anthracene	45.24	0.48	10	50.00	0	90.5	55	110	48.66	7.29	40	
Carbazole	45.75	0.64	10	50.00	0	91.5	50	115	48.38	5.57	40	
Di-n-butylphthalate	44.71	0.48	10	50.00	0	89.4	55	115	47.32	5.67	40	
Fluoranthene	46.64	0.33	10	50.00	0	93.3	55	115	50.60	8.15	40	
Pyrene	40.30	0.44	10	50.00	0	80.6	50	130	42.72	5.83	40	
Butylbenzylphthalate	42.16	0.32	10	50.00	0	84.3	45	115	43.83	3.91	40	
3,3´-Dichlorobenzidine	42.24	1.7	10	50.00	0	84.5	20	110	46.09	8.7	40	
Benzo(a)anthracene	42.08	0.40	10	50.00	0	84.2	55	110	44.60	5.82	40	
Chrysene	45.27	0.42	10	50.00	0	90.5	55	110	47.83	5.5	40	
Bis(2-ethylhexyl)phthalate	48.22	1.3	10	50.00	0	96.4	40	125	46.25	4.18	40	
Di-n-octylphthalate	42.37	0.47	10	50.00	0	84.7	35	135	45.16	6.38	40	
Benzo(b)fluoranthene	39.30	0.94	10	50.00	0	78.6	45	120	39.56	0.671	40	
Benzo(k)fluoranthene	47.37	1.2	10	50.00	0	94.7	45	125	54.09	13.2	40	
Benzo(a)pyrene	43.11	1.2	10	50.00	0	86.2	55	110	46.01	6.5	40	
Indeno(1,2,3-cd)pyrene	39.14	0.38	10	50.00	0	78.3	45	125	48.33	21	40	
Dibenzo(a,h)anthracene	44.40	0.44	10	50.00	0	88.8	40	125	47.21	6.15	40	
Benzo(g,h,i)perylene	43.41	0.39	10	50.00	0	86.8	40	125	46.53	6.93	40	
Surrogate: Nitrobenzene-d5	40.58		10	50.00	0	81.2	40	110	0			
Surrogate: 2-Fluorobiphenyl	42.15		10	50.00	0	84.3	50	110	0			
Surrogate: Terphenyl-d14	41.76		10	50.00	0	83.5	50	135	0			
Surrogate: Phenol-d5	40.27		10	50.00	0	80.5	10	115	0			
Surrogate: 2-Fluorophenol	35.09		10	50.00	0	70.2	20	110	0			
Surrogate: 2,4,6-Tribromophenol	40.73		10	50.00	0	81.5	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83186** SampType: **LCSD** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S6_151007A**

Client ID: **LCSD-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/07/15 14:52** SeqNo: **2314820**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	43.98	0.75	10	50.00	0	88.0	0	115	43.24	1.69	40	
Bis(2-chloroethyl)ether	42.16	0.75	10	50.00	0	84.3	35	110	41.42	1.77	40	
2-Chlorophenol	42.48	0.61	10	50.00	0	85.0	35	105	41.75	1.73	40	
1,3-Dichlorobenzene	39.57	0.71	10	50.00	0	79.1	30	100	39.78	0.537	40	
1,4-Dichlorobenzene	39.91	1.1	10	50.00	0	79.8	30	100	39.63	0.692	40	
1,2-Dichlorobenzene	42.17	0.84	10	50.00	0	84.3	35	100	41.16	2.42	40	
2-Methylphenol	45.02	0.96	10	50.00	0	90.0	40	110	43.76	2.84	40	
4-Methylphenol	48.02	1.4	10	50.00	0	96.0	30	110	46.90	2.37	40	
N-Nitroso-di-n-propylamine	47.05	0.63	10	50.00	0	94.1	35	130	47.00	0.112	40	
Hexachloroethane	40.17	0.55	10	50.00	0	80.3	30	95	39.50	1.69	40	
Nitrobenzene	43.51	1.6	10	50.00	0	87.0	45	110	45.51	4.5	40	
Isophorone	44.92	0.47	10	50.00	0	89.8	50	110	45.27	0.775	40	
2-Nitrophenol	42.23	0.60	10	50.00	0	84.5	40	115	42.93	1.64	40	
2,4-Dimethylphenol	42.88	1.8	10	50.00	0	85.8	30	110	43.58	1.62	40	
2,4-Dichlorophenol	42.62	0.57	10	50.00	0	85.2	50	105	45.35	6.21	40	
1,2,4-Trichlorobenzene	39.69	0.93	10	50.00	0	79.4	35	105	40.94	3.1	40	
Naphthalene	41.89	0.96	10	50.00	0	83.8	40	100	42.82	2.19	40	
4-Chloroaniline	44.74	2.0	10	50.00	0	89.5	15	110	45.64	1.99	40	
Bis(2-chloroethoxy)methane	44.81	1.1	10	50.00	0	89.6	45	105	45.56	1.64	40	
Hexachlorobutadiene	41.08	0.75	10	50.00	0	82.2	25	105	41.63	1.32	40	
4-Chloro-3-methylphenol	47.02	0.60	10	50.00	0	94.0	45	110	49.66	5.48	40	
2-Methylnaphthalene	42.38	0.94	10	50.00	0	84.8	45	105	44.23	4.25	40	
Hexachlorocyclopentadiene	27.44	1.0	10	50.00	0	54.9	27	147	31.63	14.2	40	
2,4,6-Trichlorophenol	42.69	0.53	10	50.00	0	85.4	50	115	44.37	3.84	40	
2,4,5-Trichlorophenol	44.52	0.26	20	50.00	0	89.0	50	110	46.63	4.62	40	
2-Chloronaphthalene	42.55	0.81	10	50.00	0	85.1	50	105	45.21	6.06	40	
2-Nitroaniline	50.89	0.71	20	50.00	0	102	50	115	54.50	6.85	40	
Dimethylphthalate	47.55	0.37	10	50.00	0	95.1	25	125	51.29	7.57	40	
Acenaphthylene	44.99	0.42	10	50.00	0	90.0	50	105	48.36	7.23	40	
2,6-Dinitrotoluene	46.29	0.52	10	50.00	0	92.6	50	115	49.72	7.15	40	
3-Nitroaniline	49.00	0.97	20	50.00	0	98.0	20	125	51.70	5.37	40	
Acenaphthene	44.24	0.65	10	50.00	0	88.5	45	110	48.02	8.19	40	
2,4-Dinitrophenol	33.23	3.5	20	50.00	0	66.5	15	140	37.52	12.1	40	
4-Nitrophenol	52.73	0.53	20	50.00	0	105	0	125	56.25	6.47	40	
Dibenzofuran	46.06	0.52	10	50.00	0	92.1	55	105	48.89	5.96	40	
2,4-Dinitrotoluene	50.06	0.41	10	50.00	0	100	50	120	54.85	9.14	40	
Diethylphthalate	48.67	0.45	10	50.00	0	97.3	40	120	52.23	7.06	40	
4-Chlorophenyl-phenylether	47.16	0.41	10	50.00	0	94.3	50	110	49.92	5.69	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_W

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83186** SampType: **LCSD** TestCode: **SW8270_W** Prep Date: **10/02/15 9:55** Run ID: **S6_151007A**
Client ID: **LCSD-83186** Batch ID: **83186** Units: **ug/L** Analysis Date: **10/07/15 14:52** SeqNo: **2314820**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	46.35	0.44	10	50.00	0	92.7	50	110	49.65	6.87	40	
4-Nitroaniline	54.12	0.96	20	50.00	0	108	35	120	58.79	8.26	40	
4,6-Dinitro-2-methylphenol	42.74	0.79	20	50.00	0	85.5	40	130	46.93	9.34	40	
N-Nitrosodiphenylamine	45.03	1.1	10	50.00	0	90.1	50	110	47.17	4.64	40	
4-Bromophenyl-phenylether	41.21	0.54	10	50.00	0	82.4	50	115	42.14	2.24	40	
Hexachlorobenzene	39.41	0.44	10	50.00	0	78.8	50	110	42.45	7.42	40	
Pentachlorophenol	18.00	1.7	20	50.00	0	36.0	40	115	19.78	9.45	40	JS
Phenanthrene	47.34	0.45	10	50.00	0	94.7	50	115	49.25	3.95	40	
Anthracene	47.50	0.48	10	50.00	0	95.0	55	110	49.66	4.44	40	
Carbazole	49.31	0.64	10	50.00	0	98.6	50	115	51.09	3.54	40	
Di-n-butylphthalate	50.05	0.48	10	50.00	0	100	55	115	52.06	3.92	40	
Fluoranthene	50.42	0.33	10	50.00	0	101	55	115	52.93	4.85	40	
Pyrene	46.33	0.44	10	50.00	0	92.7	50	130	48.82	5.21	40	
Butylbenzylphthalate	48.26	0.32	10	50.00	0	96.5	45	115	51.21	5.92	40	
3,3´-Dichlorobenzidine	52.41	1.7	10	50.00	0	105	20	110	54.71	4.28	40	
Benzo(a)anthracene	53.83	0.40	10	50.00	0	108	55	110	56.01	3.97	40	
Chrysene	52.67	0.42	10	50.00	0	105	55	110	55.07	4.46	40	
Bis(2-ethylhexyl)phthalate	56.25	1.3	10	50.00	0	112	40	125	53.17	5.62	40	
Di-n-octylphthalate	47.97	0.47	10	50.00	0	95.9	35	135	50.84	5.81	40	
Benzo(b)fluoranthene	46.51	0.94	10	50.00	0	93.0	45	120	50.43	8.08	40	
Benzo(k)fluoranthene	45.91	1.2	10	50.00	0	91.8	45	125	46.45	1.16	40	
Benzo(a)pyrene	46.48	1.2	10	50.00	0	93.0	55	110	48.56	4.37	40	
Indeno(1,2,3-cd)pyrene	46.27	0.38	10	50.00	0	92.5	45	125	47.49	2.59	40	
Dibenzo(a,h)anthracene	50.38	0.44	10	50.00	0	101	40	125	53.12	5.28	40	
Benzo(g,h,i)perylene	49.96	0.39	10	50.00	0	99.9	40	125	53.40	6.65	40	
1,1´-Biphenyl	43.17	0.65	10	50.00	0	86.3	55	108	46.97	8.43	40	
Acetophenone	44.03	0.51	10	50.00	0	88.1	56	145	43.86	0.396	40	
Azobenzene	46.60	0.71	10	50.00	0	93.2	46	117	50.76	8.53	40	
Surrogate: Nitrobenzene-d5	45.54		10	50.00	0	91.1	40	110	0			
Surrogate: 2-Fluorobiphenyl	43.39		10	50.00	0	86.8	50	110	0			
Surrogate: Terphenyl-d14	46.64		10	50.00	0	93.3	50	135	0			
Surrogate: Phenol-d5	46.51		10	50.00	0	93.0	10	115	0			
Surrogate: 2-Fluorophenol	41.83		10	50.00	0	83.7	20	110	0			
Surrogate: 2,4,6-Tribromophenol	34.54		10	50.00	0	69.1	40	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Project: Barrington, RI site
Lab ID: P1465-01
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_W**
alpha-BHC	ND		0.050	ug/L	1	10/05/2015 19:16	83189
beta-BHC	ND		0.050	ug/L	1	10/05/2015 19:16	83189
delta-BHC	ND		0.050	ug/L	1	10/05/2015 19:16	83189
gamma-BHC (Lindane)	ND		0.050	ug/L	1	10/05/2015 19:16	83189
Heptachlor	ND		0.050	ug/L	1	10/05/2015 19:16	83189
Aldrin	ND		0.050	ug/L	1	10/05/2015 19:16	83189
Heptachlor epoxide	ND		0.050	ug/L	1	10/05/2015 19:16	83189
Endosulfan I	ND		0.050	ug/L	1	10/05/2015 19:16	83189
Dieldrin	ND		0.10	ug/L	1	10/05/2015 19:16	83189
4,4´-DDE	ND		0.10	ug/L	1	10/05/2015 19:16	83189
Endrin	ND		0.10	ug/L	1	10/05/2015 19:16	83189
Endosulfan II	ND		0.10	ug/L	1	10/05/2015 19:16	83189
4,4´-DDD	ND		0.10	ug/L	1	10/05/2015 19:16	83189
Endosulfan sulfate	ND		0.10	ug/L	1	10/05/2015 19:16	83189
4,4´-DDT	ND		0.10	ug/L	1	10/05/2015 19:16	83189
Methoxychlor	ND		0.50	ug/L	1	10/05/2015 19:16	83189
Endrin ketone	ND		0.10	ug/L	1	10/05/2015 19:16	83189
Endrin aldehyde	ND		0.10	ug/L	1	10/05/2015 19:16	83189
alpha-Chlordane	ND		0.050	ug/L	1	10/05/2015 19:16	83189
gamma-Chlordane	ND		0.050	ug/L	1	10/05/2015 19:16	83189
Toxaphene	ND		5.0	ug/L	1	10/05/2015 19:16	83189
Surrogate: Tetrachloro-m-xylene	64.9		25-140	%REC	1	10/05/2015 19:16	83189
Surrogate: Decachlorobiphenyl	66.6		30-135	%REC	1	10/05/2015 19:16	83189

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_W**
alpha-BHC	ND		0.050	ug/L	1	10/05/2015 19:31	83189
beta-BHC	ND		0.050	ug/L	1	10/05/2015 19:31	83189
delta-BHC	ND		0.050	ug/L	1	10/05/2015 19:31	83189
gamma-BHC (Lindane)	ND		0.050	ug/L	1	10/05/2015 19:31	83189
Heptachlor	ND		0.050	ug/L	1	10/05/2015 19:31	83189
Aldrin	ND		0.050	ug/L	1	10/05/2015 19:31	83189
Heptachlor epoxide	ND		0.050	ug/L	1	10/05/2015 19:31	83189
Endosulfan I	ND		0.050	ug/L	1	10/05/2015 19:31	83189
Dieldrin	ND		0.10	ug/L	1	10/05/2015 19:31	83189
4,4´-DDE	ND		0.10	ug/L	1	10/05/2015 19:31	83189
Endrin	ND		0.10	ug/L	1	10/05/2015 19:31	83189
Endosulfan II	ND		0.10	ug/L	1	10/05/2015 19:31	83189
4,4´-DDD	ND		0.10	ug/L	1	10/05/2015 19:31	83189
Endosulfan sulfate	ND		0.10	ug/L	1	10/05/2015 19:31	83189
4,4´-DDT	ND		0.10	ug/L	1	10/05/2015 19:31	83189
Methoxychlor	ND		0.50	ug/L	1	10/05/2015 19:31	83189
Endrin ketone	ND		0.10	ug/L	1	10/05/2015 19:31	83189
Endrin aldehyde	ND		0.10	ug/L	1	10/05/2015 19:31	83189
alpha-Chlordane	ND		0.050	ug/L	1	10/05/2015 19:31	83189
gamma-Chlordane	ND		0.050	ug/L	1	10/05/2015 19:31	83189
Toxaphene	ND		5.0	ug/L	1	10/05/2015 19:31	83189
Surrogate: Tetrachloro-m-xylene	61.4		25-140	%REC	1	10/05/2015 19:31	83189
Surrogate: Decachlorobiphenyl	51.1		30-135	%REC	1	10/05/2015 19:31	83189

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03
Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_W**
alpha-BHC	ND		0.050	ug/L	1	10/05/2015 19:46	83189
beta-BHC	ND		0.050	ug/L	1	10/05/2015 19:46	83189
delta-BHC	ND		0.050	ug/L	1	10/05/2015 19:46	83189
gamma-BHC (Lindane)	ND		0.050	ug/L	1	10/05/2015 19:46	83189
Heptachlor	ND		0.050	ug/L	1	10/05/2015 19:46	83189
Aldrin	ND		0.050	ug/L	1	10/05/2015 19:46	83189
Heptachlor epoxide	ND		0.050	ug/L	1	10/05/2015 19:46	83189
Endosulfan I	ND		0.050	ug/L	1	10/05/2015 19:46	83189
Dieldrin	ND		0.10	ug/L	1	10/05/2015 19:46	83189
4,4´-DDE	ND		0.10	ug/L	1	10/05/2015 19:46	83189
Endrin	ND		0.10	ug/L	1	10/05/2015 19:46	83189
Endosulfan II	ND		0.10	ug/L	1	10/05/2015 19:46	83189
4,4´-DDD	ND		0.10	ug/L	1	10/05/2015 19:46	83189
Endosulfan sulfate	ND		0.10	ug/L	1	10/05/2015 19:46	83189
4,4´-DDT	ND		0.10	ug/L	1	10/05/2015 19:46	83189
Methoxychlor	ND		0.50	ug/L	1	10/05/2015 19:46	83189
Endrin ketone	ND		0.10	ug/L	1	10/05/2015 19:46	83189
Endrin aldehyde	ND		0.10	ug/L	1	10/05/2015 19:46	83189
alpha-Chlordane	ND		0.050	ug/L	1	10/05/2015 19:46	83189
gamma-Chlordane	ND		0.050	ug/L	1	10/05/2015 19:46	83189
Toxaphene	ND		5.0	ug/L	1	10/05/2015 19:46	83189
Surrogate: Tetrachloro-m-xylene	63.9		25-140	%REC	1	10/05/2015 19:46	83189
Surrogate: Decachlorobiphenyl	45.8		30-135	%REC	1	10/05/2015 19:46	83189

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **MB-83189** SampType: **MBLK** TestCode: **SW8081_W** Prep Date: **10/02/15 10:12** Run ID: **E6_151005A**
Client ID: **MB-83189** Batch ID: **83189** Units: **ug/L** Analysis Date: **10/05/15 15:12** SeqNo: **2313531**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.0018	0.050									
beta-BHC	ND	0.0020	0.050									
delta-BHC	ND	0.0027	0.050									
gamma-BHC (Lindane)	ND	0.0019	0.050									
Heptachlor	ND	0.0039	0.050									
Aldrin	ND	0.0043	0.050									
Heptachlor epoxide	ND	0.0028	0.050									
Endosulfan I	ND	0.0029	0.050									
Dieldrin	ND	0.0056	0.10									
4,4´-DDE	ND	0.0056	0.10									
Endrin	ND	0.0035	0.10									
Endosulfan II	ND	0.0031	0.10									
4,4´-DDD	ND	0.0064	0.10									
Endosulfan sulfate	ND	0.0045	0.10									
4,4´-DDT	ND	0.0070	0.10									
Methoxychlor	ND	0.031	0.50									
Endrin ketone	ND	0.0046	0.10									
Endrin aldehyde	ND	0.015	0.10									
Toxaphene	ND	0.14	5.0									
Surrogate: Decachlorobiphenyl	0.7745		0.10	1.200	0	64.5	30	135	0			

Sample ID: **MB-83189** SampType: **MBLK** TestCode: **SW8081_W** Prep Date: **10/02/15 10:12** Run ID: **E6_151005B**
Client ID: **MB-83189** Batch ID: **83189** Units: **ug/L** Analysis Date: **10/05/15 15:12** SeqNo: **2313539**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	0.4180		0.050	0.6000	0	69.7	25	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCS-83189** SampType: **LCS** TestCode: **SW8081_W** Prep Date: **10/02/15 10:12** Run ID: **E6_151005A**
Client ID: **LCS-83189** Batch ID: **83189** Units: **ug/L** Analysis Date: **10/05/15 15:27** SeqNo: **2313532**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	0.1562	0.0018	0.050	0.2000	0	78.1	60	130	0			
beta-BHC	0.1636	0.0020	0.050	0.2000	0	81.8	65	125	0			
delta-BHC	0.1469	0.0027	0.050	0.2000	0	73.5	45	135	0			
gamma-BHC (Lindane)	0.1568	0.0019	0.050	0.2000	0	78.4	25	135	0			
Heptachlor	0.1467	0.0039	0.050	0.2000	0	73.3	40	130	0			
Aldrin	0.1562	0.0043	0.050	0.2000	0	78.1	25	140	0			
Heptachlor epoxide	0.1606	0.0028	0.050	0.2000	0	80.3	60	130	0			
Endosulfan I	0.1535	0.0029	0.050	0.2000	0	76.7	50	110	0			
Dieldrin	0.3128	0.0056	0.10	0.4000	0	78.2	60	130	0			
4,4´-DDE	0.3219	0.0056	0.10	0.4000	0	80.5	35	140	0			
Endrin	0.3250	0.0035	0.10	0.4000	0	81.2	55	135	0			
Endosulfan II	0.3004	0.0031	0.10	0.4000	0	75.1	30	130	0			
4,4´-DDD	0.2878	0.0064	0.10	0.4000	0	71.9	25	150	0			
Endosulfan sulfate	0.3122	0.0045	0.10	0.4000	0	78.0	55	135	0			
4,4´-DDT	0.2902	0.0070	0.10	0.4000	0	72.5	45	140	0			
Methoxychlor	1.472	0.031	0.50	2.000	0	73.6	55	150	0			
Endrin ketone	0.3080	0.0046	0.10	0.4000	0	77.0	75	125	0			
Endrin aldehyde	0.3103	0.015	0.10	0.4000	0	77.6	55	135	0			
alpha-Chlordane	0.1589	0.0024	0.050	0.2000	0	79.4	65	125	0			
gamma-Chlordane	0.1542	0.0026	0.050	0.2000	0	77.1	60	125	0			
Surrogate: Decachlorobiphenyl	1.026		0.10	1.200	0	85.5	30	135	0			

Sample ID: **LCS-83189** SampType: **LCS** TestCode: **SW8081_W** Prep Date: **10/02/15 10:12** Run ID: **E6_151005B**
Client ID: **LCS-83189** Batch ID: **83189** Units: **ug/L** Analysis Date: **10/05/15 15:27** SeqNo: **2313540**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	0.4822		0.050	0.6000	0	80.4	25	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_W

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCSD-83189** SampType: **LCSD** TestCode: **SW8081_W** Prep Date: **10/02/15 10:12** Run ID: **E6_151005A**
Client ID: **LCSD-83189** Batch ID: **83189** Units: **ug/L** Analysis Date: **10/05/15 18:30** SeqNo: **2313533**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	0.1538	0.0018	0.050	0.2000	0	76.9	60	130	0.1562	1.54	30	
beta-BHC	0.1655	0.0020	0.050	0.2000	0	82.8	65	125	0.1636	1.21	30	
delta-BHC	0.1357	0.0027	0.050	0.2000	0	67.8	45	135	0.1469	7.97	30	
gamma-BHC (Lindane)	0.1496	0.0019	0.050	0.2000	0	74.8	25	135	0.1568	4.72	30	
Heptachlor	0.1524	0.0039	0.050	0.2000	0	76.2	40	130	0.1467	3.86	30	
Aldrin	0.1576	0.0043	0.050	0.2000	0	78.8	25	140	0.1562	0.898	30	
Heptachlor epoxide	0.1410	0.0028	0.050	0.2000	0	70.5	60	130	0.1606	13	30	
Endosulfan I	0.1536	0.0029	0.050	0.2000	0	76.8	50	110	0.1535	0.0927	30	
Dieldrin	0.3029	0.0056	0.10	0.4000	0	75.7	60	130	0.3128	3.2	30	
4,4´-DDE	0.3177	0.0056	0.10	0.4000	0	79.4	35	140	0.3219	1.31	30	
Endrin	0.3314	0.0035	0.10	0.4000	0	82.9	55	135	0.3250	1.97	30	
Endosulfan II	0.3198	0.0031	0.10	0.4000	0	80.0	30	130	0.3004	6.26	30	
4,4´-DDD	0.3012	0.0064	0.10	0.4000	0	75.3	25	150	0.2878	4.55	30	
Endosulfan sulfate	0.3299	0.0045	0.10	0.4000	0	82.5	55	135	0.3122	5.54	30	
4,4´-DDT	0.3118	0.0070	0.10	0.4000	0	78.0	45	140	0.2902	7.19	30	
Methoxychlor	1.461	0.031	0.50	2.000	0	73.0	55	150	1.472	0.733	30	
Endrin ketone	0.3062	0.0046	0.10	0.4000	0	76.5	75	125	0.3080	0.602	30	
Endrin aldehyde	0.3175	0.015	0.10	0.4000	0	79.4	55	135	0.3103	2.27	30	
alpha-Chlordane	0.1417	0.0024	0.050	0.2000	0	70.8	65	125	0.1589	11.5	30	
gamma-Chlordane	0.1558	0.0026	0.050	0.2000	0	77.9	60	125	0.1542	1.07	30	
Surrogate: Tetrachloro-m-xylene	0.4413		0.050	0.6000	0	73.5	25	140	0			
Surrogate: Decachlorobiphenyl	0.9708		0.10	1.200	0	80.9	30	135	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01
Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_W**
Aroclor-1016	ND		1.0	ug/L	1	10/07/2015 15:25	83190
Aroclor-1221	ND		1.0	ug/L	1	10/07/2015 15:25	83190
Aroclor-1232	ND		1.0	ug/L	1	10/07/2015 15:25	83190
Aroclor-1242	ND		1.0	ug/L	1	10/07/2015 15:25	83190
Aroclor-1248	ND		1.0	ug/L	1	10/07/2015 15:25	83190
Aroclor-1254	ND		1.0	ug/L	1	10/07/2015 15:25	83190
Aroclor-1260	ND		1.0	ug/L	1	10/07/2015 15:25	83190
Surrogate: Tetrachloro-m-xylene	82.8		34-137	%REC	1	10/07/2015 15:25	83190
Surrogate: Decachlorobiphenyl	71.8		40-135	%REC	1	10/07/2015 15:25	83190

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02

Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_W**
Aroclor-1016	ND		1.0	ug/L	1	10/07/2015 15:40	83190
Aroclor-1221	ND		1.0	ug/L	1	10/07/2015 15:40	83190
Aroclor-1232	ND		1.0	ug/L	1	10/07/2015 15:40	83190
Aroclor-1242	ND		1.0	ug/L	1	10/07/2015 15:40	83190
Aroclor-1248	ND		1.0	ug/L	1	10/07/2015 15:40	83190
Aroclor-1254	ND		1.0	ug/L	1	10/07/2015 15:40	83190
Aroclor-1260	ND		1.0	ug/L	1	10/07/2015 15:40	83190
Surrogate: Tetrachloro-m-xylene	81.3		34-137	%REC	1	10/07/2015 15:40	83190
Surrogate: Decachlorobiphenyl	63.5		40-135	%REC	1	10/07/2015 15:40	83190

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03

Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_W**
Aroclor-1016	ND		1.0	ug/L	1	10/07/2015 15:54	83190
Aroclor-1221	ND		1.0	ug/L	1	10/07/2015 15:54	83190
Aroclor-1232	ND		1.0	ug/L	1	10/07/2015 15:54	83190
Aroclor-1242	ND		1.0	ug/L	1	10/07/2015 15:54	83190
Aroclor-1248	ND		1.0	ug/L	1	10/07/2015 15:54	83190
Aroclor-1254	ND		1.0	ug/L	1	10/07/2015 15:54	83190
Aroclor-1260	ND		1.0	ug/L	1	10/07/2015 15:54	83190
Surrogate: Tetrachloro-m-xylene	82.6		34-137	%REC	1	10/07/2015 15:54	83190
Surrogate: Decachlorobiphenyl	62.6		40-135	%REC	1	10/07/2015 15:54	83190

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_W

SW846 8082A -- PCB by GC-ECD

Sample ID: **MB-83190** SampType: **MBLK** TestCode: **SW8082_W** Prep Date: **10/02/15 10:16** Run ID: **E2_151007C**
Client ID: **MB-83190** Batch ID: **83190** Units: **ug/L** Analysis Date: **10/07/15 14:13** SeqNo: **2314821**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	0.12	1.0									
Aroclor-1221	ND	0.095	1.0									
Aroclor-1232	ND	0.19	1.0									
Aroclor-1242	ND	0.030	1.0									
Aroclor-1248	ND	0.063	1.0									
Aroclor-1254	ND	0.20	1.0									
Aroclor-1260	ND	0.11	1.0									
Surrogate: Tetrachloro-m-xylene	0.4933		0.050	0.6000	0	82.2	34	137	0			
Surrogate: Decachlorobiphenyl	1.145		0.10	1.200	0	95.4	40	135	0			

Sample ID: **LCS-83190** SampType: **LCS** TestCode: **SW8082_W** Prep Date: **10/02/15 10:16** Run ID: **E2_151007C**
Client ID: **LCS-83190** Batch ID: **83190** Units: **ug/L** Analysis Date: **10/07/15 14:28** SeqNo: **2314822**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	0.4945		0.050	0.6000	0	82.4	34	137	0			
Surrogate: Decachlorobiphenyl	1.101		0.10	1.200	0	91.7	40	135	0			

Sample ID: **LCS-83190** SampType: **LCS** TestCode: **SW8082_W** Prep Date: **10/02/15 10:16** Run ID: **E2_151007D**
Client ID: **LCS-83190** Batch ID: **83190** Units: **ug/L** Analysis Date: **10/07/15 14:28** SeqNo: **2314828**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	3.426	0.12	1.0	4.000	0	85.7	25	145	0			
Aroclor-1260	3.645	0.11	1.0	4.000	0	91.1	30	145	0			

Sample ID: **LCSD-83190** SampType: **LCSD** TestCode: **SW8082_W** Prep Date: **10/02/15 10:16** Run ID: **E2_151007C**
Client ID: **LCSD-83190** Batch ID: **83190** Units: **ug/L** Analysis Date: **10/07/15 14:42** SeqNo: **2314823**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	0.4712		0.050	0.6000	0	78.5	34	137	0			
Surrogate: Decachlorobiphenyl	1.049		0.10	1.200	0	87.4	40	135	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_W

SW846 8082A -- PCB by GC-ECD

Sample ID: **LCSD-83190** SampType: **LCSD** TestCode: **SW8082_W** Prep Date: **10/02/15 10:16** Run ID: **E2_151007D**
Client ID: **LCSD-83190** Batch ID: **83190** Units: **ug/L** Analysis Date: **10/07/15 14:42** SeqNo: **2314829**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	3.218	0.12	1.0	4.000	0	80.4	25	145	3.426	6.28	30	
Aroclor-1260	3.479	0.11	1.0	4.000	0	87.0	30	145	3.645	4.65	30	

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01
Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8011 -- EDB and DBCP by GC-ECD							**SW8011_W**
1,2-Dibromoethane	ND		0.020	ug/L	1	10/06/2015 21:44	83213
1,2-Dibromo-3-chloropropane	ND		0.020	ug/L	1	10/06/2015 21:44	83213
Surrogate: 1,1,1,2-Tetrachloroethane	107		60-140	%REC	1	10/06/2015 21:44	83213

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8011 -- EDB and DBCP by GC-ECD							**SW8011_W**
1,2-Dibromoethane	ND		0.021	ug/L	1	10/06/2015 22:07	83213
1,2-Dibromo-3-chloropropane	ND		0.021	ug/L	1	10/06/2015 22:07	83213
Surrogate: 1,1,1,2-Tetrachloroethane	85.8		60-140	%REC	1	10/06/2015 22:07	83213

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Project: Barrington, RI site
Lab ID: P1465-03
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8011 -- EDB and DBCP by GC-ECD							**SW8011_W**
1,2-Dibromoethane	ND		0.020	ug/L	1	10/06/2015 22:29	83213
1,2-Dibromo-3-chloropropane	ND		0.020	ug/L	1	10/06/2015 22:29	83213
Surrogate: 1,1,1,2-Tetrachloroethane	103		60-140	%REC	1	10/06/2015 22:29	83213

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8011_W

SW846 8011 -- EDB and DBCP by GC-ECD

Sample ID: **MB-83213** SampType: **MBLK** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006A**
Client ID: **MB-83213** Batch ID: **83213** Units: **ug/L** Analysis Date **10/06/15 19:02** SeqNo: **2313800**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.0043	0.020									
1,2-Dibromo-3-chloropropane	ND	0.0028	0.020									

Sample ID: **MB-83213** SampType: **MBLK** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006B**
Client ID: **MB-83213** Batch ID: **83213** Units: **ug/L** Analysis Date **10/06/15 19:02** SeqNo: **2313855**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 1,1,1,2-Tetrachloroethane	0.07190		0.020	0.08000	0	89.9	60	140	0			

Sample ID: **LCS-83213** SampType: **LCS** TestCode: **SW8011_W** Prep Date: **10/06/15 9:02** Run ID: **E5_151006B**
Client ID: **LCS-83213** Batch ID: **83213** Units: **ug/L** Analysis Date **10/06/15 19:26** SeqNo: **2313858**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	0.06387	0.0043	0.020	0.08000	0	79.8	70	130	0			
1,2-Dibromo-3-chloropropane	0.07124	0.0028	0.020	0.08000	0	89.0	70	130	0			
Surrogate: 1,1,1,2-Tetrachloroethane	0.07777		0.020	0.08000	0	97.2	60	140	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Project: Barrington, RI site
Lab ID: P1465-01
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_W**
Extractable Total Petroleum Hydrocarbon	ND		0.20	mg/L	1	10/06/2015 6:33	83194
Surrogate: ortho-Terphenyl	80.2		50-150	%REC	1	10/06/2015 6:33	83194

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Project: Barrington, RI site
Lab ID: P1465-02
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_W**
Extractable Total Petroleum Hydrocarbon	ND		0.20	mg/L	1	10/06/2015 6:48	83194
Surrogate: ortho-Terphenyl	81.2		50-150	%REC	1	10/06/2015 6:48	83194

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03
Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_W**
Extractable Total Petroleum Hydrocarbon	ND		0.20	mg/L	1	10/06/2015 7:03	83194
Surrogate: ortho-Terphenyl	89.5		50-150	%REC	1	10/06/2015 7:03	83194

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

TPH_W

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID: **MB-83194** SampType: **MBLK** TestCode: **TPH_W** Prep Date: **10/02/15 10:38** Run ID: **F1_151005A**
Client ID: **MB-83194** Batch ID: **83194** Units: **mg/L** Analysis Date **10/06/15 5:18** SeqNo: **2313152**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	ND	0.018	0.20									
Surrogate: ortho-Terphenyl	0.08048		0.025	0.1000	0	80.5	50	150	0			

Sample ID: **LCS-83194** SampType: **LCS** TestCode: **TPH_W** Prep Date: **10/02/15 10:38** Run ID: **F1_151005A**
Client ID: **LCS-83194** Batch ID: **83194** Units: **mg/L** Analysis Date **10/06/15 5:48** SeqNo: **2313153**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	5.760	0.018	0.20	5.000	0	115	60	140	0			
Surrogate: ortho-Terphenyl	0.1123		0.025	0.1000	0	112	50	150	0			

Sample ID: **LCSD-83194** SampType: **LCSD** TestCode: **TPH_W** Prep Date: **10/02/15 10:38** Run ID: **F1_151005A**
Client ID: **LCSD-83194** Batch ID: **83194** Units: **mg/L** Analysis Date **10/06/15 6:03** SeqNo: **2313154**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	6.321	0.018	0.20	5.000	0	126	60	140	5.760	9.29	20	
Surrogate: ortho-Terphenyl	0.1215		0.025	0.1000	0	121	50	150	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW
Lab ID: P1465-01
Project: Barrington, RI site
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony	ND		2.0	ug/L	1	10/06/2015 13:52	83174
Arsenic	0.53	J	2.0	ug/L	1	10/06/2015 13:52	83174
Barium	62		10	ug/L	1	10/06/2015 13:52	83174
Beryllium	ND		1.0	ug/L	1	10/06/2015 13:52	83174
Cadmium	ND		1.0	ug/L	1	10/06/2015 13:52	83174
Chromium	0.48	J	2.0	ug/L	1	10/06/2015 13:52	83174
Copper	1.3	J	2.0	ug/L	1	10/06/2015 13:52	83174
Lead	0.43	J	1.0	ug/L	1	10/06/2015 13:52	83174
Manganese	340		2.0	ug/L	1	10/06/2015 13:52	83174
Nickel	2.5		1.0	ug/L	1	10/06/2015 13:52	83174
Selenium	ND		5.0	ug/L	1	10/06/2015 13:52	83174
Silver	ND		1.0	ug/L	1	10/06/2015 13:52	83174
Thallium	ND		1.0	ug/L	1	10/06/2015 13:52	83174
Vanadium	ND		5.0	ug/L	1	10/06/2015 13:52	83174
Zinc	6.1		2.0	ug/L	1	10/06/2015 13:52	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury	ND		0.20	µg/L	1	10/08/2015 10:55	83253

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW
Lab ID: P1465-02
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony	ND		2.0	ug/L	1	10/06/2015 13:57	83174
Arsenic	0.31	J	2.0	ug/L	1	10/06/2015 13:57	83174
Barium	17		10	ug/L	1	10/06/2015 13:57	83174
Beryllium	ND		1.0	ug/L	1	10/06/2015 13:57	83174
Cadmium	ND		1.0	ug/L	1	10/06/2015 13:57	83174
Chromium	0.78	J	2.0	ug/L	1	10/06/2015 13:57	83174
Copper	1.1	J	2.0	ug/L	1	10/06/2015 13:57	83174
Lead	0.28	J	1.0	ug/L	1	10/06/2015 13:57	83174
Manganese	67		2.0	ug/L	1	10/06/2015 13:57	83174
Nickel	2.5		1.0	ug/L	1	10/06/2015 13:57	83174
Selenium	ND		5.0	ug/L	1	10/06/2015 13:57	83174
Silver	ND		1.0	ug/L	1	10/06/2015 13:57	83174
Thallium	ND		1.0	ug/L	1	10/06/2015 13:57	83174
Vanadium	ND		5.0	ug/L	1	10/06/2015 13:57	83174
Zinc	4.7		2.0	ug/L	1	10/06/2015 13:57	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury	ND		0.20	µg/L	1	10/08/2015 10:57	83253

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW
Lab ID: P1465-03
Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony	ND		2.0	ug/L	1	10/06/2015 14:02	83174
Arsenic	0.40	J	2.0	ug/L	1	10/06/2015 14:02	83174
Barium	21		10	ug/L	1	10/06/2015 14:02	83174
Beryllium	ND		1.0	ug/L	1	10/06/2015 14:02	83174
Cadmium	0.17	J	1.0	ug/L	1	10/06/2015 14:02	83174
Chromium	0.54	J	2.0	ug/L	1	10/06/2015 14:02	83174
Copper	3.1		2.0	ug/L	1	10/06/2015 14:02	83174
Lead	0.44	J	1.0	ug/L	1	10/06/2015 14:02	83174
Manganese	950		2.0	ug/L	1	10/06/2015 14:02	83174
Nickel	7.5		1.0	ug/L	1	10/06/2015 14:02	83174
Selenium	ND		5.0	ug/L	1	10/06/2015 14:02	83174
Silver	ND		1.0	ug/L	1	10/06/2015 14:02	83174
Thallium	ND		1.0	ug/L	1	10/06/2015 14:02	83174
Vanadium	ND		5.0	ug/L	1	10/06/2015 14:02	83174
Zinc	9.9		2.0	ug/L	1	10/06/2015 14:02	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury	ND		0.20	µg/L	1	10/08/2015 10:58	83253

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-113-GW-F
Project: Barrington, RI site
Lab ID: P1465-05
Collection Date: 09/30/15 10:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony -- Dissolved	ND		2.0	ug/L	1	10/06/2015 14:07	83174
Arsenic -- Dissolved	0.74	J	2.0	ug/L	1	10/06/2015 14:07	83174
Barium -- Dissolved	63		10	ug/L	1	10/06/2015 14:07	83174
Beryllium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:07	83174
Cadmium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:07	83174
Chromium -- Dissolved	0.87	J	2.0	ug/L	1	10/06/2015 14:07	83174
Copper -- Dissolved	2.2		2.0	ug/L	1	10/06/2015 14:07	83174
Lead -- Dissolved	0.64	J	1.0	ug/L	1	10/06/2015 14:07	83174
Manganese -- Dissolved	350		2.0	ug/L	1	10/06/2015 14:07	83174
Nickel -- Dissolved	2.9		1.0	ug/L	1	10/06/2015 14:07	83174
Selenium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 14:07	83174
Silver -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:07	83174
Thallium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:07	83174
Vanadium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 14:07	83174
Zinc -- Dissolved	5.9		2.0	ug/L	1	10/06/2015 14:07	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury -- Dissolved	ND		0.20	µg/L	1	10/08/2015 11:00	83253

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-121-GW-F
Lab ID: P1465-06
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony -- Dissolved	ND		2.0	ug/L	1	10/06/2015 14:12	83174
Arsenic -- Dissolved	0.61	J	2.0	ug/L	1	10/06/2015 14:12	83174
Barium -- Dissolved	16		10	ug/L	1	10/06/2015 14:12	83174
Beryllium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:12	83174
Cadmium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:12	83174
Chromium -- Dissolved	0.53	J	2.0	ug/L	1	10/06/2015 14:12	83174
Copper -- Dissolved	1.6	J	2.0	ug/L	1	10/06/2015 14:12	83174
Lead -- Dissolved	0.20	J	1.0	ug/L	1	10/06/2015 14:12	83174
Manganese -- Dissolved	72		2.0	ug/L	1	10/06/2015 14:12	83174
Nickel -- Dissolved	2.9		1.0	ug/L	1	10/06/2015 14:12	83174
Selenium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 14:12	83174
Silver -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:12	83174
Thallium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:12	83174
Vanadium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 14:12	83174
Zinc -- Dissolved	5.5		2.0	ug/L	1	10/06/2015 14:12	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury -- Dissolved	ND		0.20	µg/L	1	10/08/2015 11:02	83253

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-105-GW-F
Lab ID: P1465-07

Project: Barrington, RI site
Collection Date: 09/30/15 16:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6020A -- Metals by ICP-MS							**SW6020_W**
Antimony -- Dissolved	ND		2.0	ug/L	1	10/06/2015 14:17	83174
Arsenic -- Dissolved	0.34	J	2.0	ug/L	1	10/06/2015 14:17	83174
Barium -- Dissolved	21		10	ug/L	1	10/06/2015 14:17	83174
Beryllium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:17	83174
Cadmium -- Dissolved	0.17	J	1.0	ug/L	1	10/06/2015 14:17	83174
Chromium -- Dissolved	0.38	J	2.0	ug/L	1	10/06/2015 14:17	83174
Copper -- Dissolved	3.2		2.0	ug/L	1	10/06/2015 14:17	83174
Lead -- Dissolved	0.20	J	1.0	ug/L	1	10/06/2015 14:17	83174
Manganese -- Dissolved	1200		2.0	ug/L	1	10/06/2015 14:17	83174
Nickel -- Dissolved	7.2		1.0	ug/L	1	10/06/2015 14:17	83174
Selenium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 14:17	83174
Silver -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:17	83174
Thallium -- Dissolved	ND		1.0	ug/L	1	10/06/2015 14:17	83174
Vanadium -- Dissolved	ND		5.0	ug/L	1	10/06/2015 14:17	83174
Zinc -- Dissolved	9.2		2.0	ug/L	1	10/06/2015 14:17	83174
SW846 7470A -- Mercury by FIA							**SW7470**
Mercury -- Dissolved	ND		0.20	µg/L	1	10/08/2015 11:03	83253

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6020_W

SW846 6020A -- Metals by ICP-MS

Sample ID: **MB-83174** SampType: **MBLK** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **MB-83174** Batch ID: **83174** Units: **ug/L** Analysis Date: **10/06/15 12:47** SeqNo: **2313603**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.20	2.0									
Arsenic	ND	0.19	2.0									
Barium	ND	1.3	10									
Beryllium	ND	0.072	1.0									
Cadmium	ND	0.084	1.0									
Chromium	ND	0.16	2.0									
Copper	ND	0.23	2.0									
Lead	ND	0.068	1.0									
Manganese	ND	0.83	2.0									
Nickel	ND	0.17	1.0									
Selenium	ND	0.19	5.0									
Silver	ND	0.022	1.0									
Thallium	0.07055	0.047	1.0									J
Vanadium	ND	0.61	5.0									
Zinc	ND	0.73	2.0									

Sample ID: **LCS-83174** SampType: **LCS** TestCode: **SW6020_W** Prep Date: **10/02/15 9:30** Run ID: **X1_151006A**
Client ID: **LCS-83174** Batch ID: **83174** Units: **ug/L** Analysis Date: **10/06/15 12:52** SeqNo: **2313604**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	99.38	0.20	2.0	100.0	0	99.4	80	120	0			
Arsenic	39.67	0.19	2.0	40.00	0	99.2	80	120	0			
Barium	1954	1.3	10	2000	0	97.7	80	120	0			
Beryllium	51.18	0.072	1.0	50.00	0	102	80	120	0			
Cadmium	49.37	0.084	1.0	50.00	0	98.7	80	120	0			
Chromium	195.2	0.16	2.0	200.0	0	97.6	80	120	0			
Copper	244.0	0.23	2.0	250.0	0	97.6	80	120	0			
Lead	19.79	0.068	1.0	20.00	0	99.0	80	120	0			
Manganese	489.9	0.83	2.0	500.0	0	98.0	80	120	0			
Nickel	507.9	0.17	1.0	500.0	0	102	80	120	0			
Selenium	50.77	0.19	5.0	50.00	0	102	80	120	0			
Silver	49.38	0.022	1.0	50.00	0	98.8	80	120	0			
Thallium	43.21	0.047	1.0	50.00	0	86.4	80	120	0			B
Vanadium	491.9	0.61	5.0	500.0	0	98.4	80	120	0			
Zinc	491.8	0.73	2.0	500.0	0	98.4	80	120	0			

Qualifiers:
ND - Not Detected at the MDL
J - Analyte detected below quanititation limits
S - Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MDL - Method Detection Limit
RL - Reporting Limit
B - Analyte detected in the associated Method Blank

CLIENT: Nobis Engineering, Inc
Work Order: P1465
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7470

SW846 7470A -- Mercury by FIA

Sample ID: **MB-83253** SampType: **MBLK** TestCode: **SW7470** Prep Date: **10/07/15 14:00** Run ID: **FIMS2_151008A**
Client ID: **MB-83253** Batch ID: **83253** Units: **µg/L** Analysis Date: **10/08/15 10:32** SeqNo: **2314499**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.028	0.20									

Sample ID: **LCS-83253** SampType: **LCS** TestCode: **SW7470** Prep Date: **10/07/15 14:00** Run ID: **FIMS2_151008A**
Client ID: **LCS-83253** Batch ID: **83253** Units: **µg/L** Analysis Date: **10/08/15 10:33** SeqNo: **2314500**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	4.524	0.028	0.20	4.550	0	99.4	80	120	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

eurofins | Spectrum Analytical

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Report Date:
12-Oct-15 12:55

Laboratory Report

Eurofins Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Edward Lawler

Project: Barrington, RI Site
Project #: P1465

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC13163-01	NOB-113-GW	Aqueous	30-Sep-15 10:10	02-Oct-15 18:50
SC13163-02	NOB-121-GW	Aqueous	30-Sep-15 13:40	02-Oct-15 18:50
SC13163-03	NOB-105-GW	Aqueous	30-Sep-15 16:10	02-Oct-15 18:50

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

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:

June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 7 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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

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

CASE NARRATIVE:

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

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

The samples were received 3.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	Eurofins Spectrum Analytical, Inc. - RI
Project:	Barrington, RI Site / P1465
Work Order:	SC13163
Sample(s) received on:	10/2/2015

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

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: **Client ID:**

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method

No hits detected.

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-113-GW SC13163-01	P1465	Aqueous	30-Sep-15 10:10	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00480	1	EPA 335.4 / SW846 9012B	09-Oct-15	10-Oct-15	rlt	1519282	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-121-GW SC13163-02	P1465	Aqueous	30-Sep-15 13:40	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00480	1	EPA 335.4 / SW846 9012B	09-Oct-15	10-Oct-15	rlt	1519282	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-105-GW SC13163-03	P1465	Aqueous	30-Sep-15 16:10	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
57-12-5	Cyanide (total)	< 0.00500	U	mg/l	0.00500	0.00480	1	EPA 335.4 / SW846 9012B	09-Oct-15	10-Oct-15	rlt	1519282	X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1519282 - General Preparation										
Blank (1519282-BLK1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	< 0.00500	U	mg/l	0.00500						
Blank (1519282-BLK2)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	< 0.00500	U	mg/l	0.00500						
LCS (1519282-BS1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.194**		mg/l	0.00500	0.200		97	90-110		
LCS (1519282-BS2)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.201**		mg/l	0.00500	0.200		100	90-110		
Calibration Blank (1519282-CCB1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/l							
Calibration Blank (1519282-CCB2)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/l							
Calibration Blank (1519282-CCB3)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/l							
Calibration Check (1519282-CCV1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.329**		mg/l	0.00500	0.300		110	90-110		
Calibration Check (1519282-CCV2)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.314**		mg/l	0.00500	0.300		105	90-110		
Calibration Check (1519282-CCV3)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.321**		mg/l	0.00500	0.300		107	90-110		
Reference (1519282-SRM1)						Prepared: 09-Oct-15 Analyzed: 10-Oct-15				
Cyanide (total)	**0.297**		mg/l	0.00500	0.290		103	75.7-123		

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

Validated by:
Kimberly LaPlante

SC13163 AA

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1465
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/13/2015
FAX Due Date : 10/8/2015
Report To : Edward A Lawler
Purchase Order : P1465
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_W
NOB-113-GW 01- SC13163	09/30/2015 10:10	1	Aqueous		P1465-01D	X
NOB-121-GW 02	09/30/2015 13:40	1	Aqueous		P1465-02D	X
NOB-105-GW 03	09/30/2015 16:10	1	Aqueous		P1465-03D	X

1) SW9012_W, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

4.7/-1/3.7/01
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/02/15 11:10	**Received by:**	David Rec	10/2/15 12:40
Relinquished by:	David Rec	10/2/15 13:05	**Received by:**		10/2/15 18:50

[X] REFRIG.

616 Camp Ave * North Kingstown * RI * 028524008 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1465

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1465-01A	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	GRO_W	/					VOA
P1465-01A	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	SW8260_W	/				Y	VOA
P1465-01B	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	SW8011_W	/ EDB and DBCP				Y	L1
P1465-01C	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	SW8081_W	/					L1
P1465-01C	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	SW8082_W	/					L1
P1465-01C	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	SW8270_W	/ Special SEL				Y	L1
P1465-01C	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	TPH_W	/ Extractable TPH- DRO					L1
P1465-01D	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	SW9012_W	/ SPECTRUM--					L1
P1465-01E	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	SW6020_W	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4
P1465-01E	NOB-113-GW	09/30/2015 10:10	10/01/2015	Aqueous	SW7470	/					M4
P1465-02A	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	GRO_W	/					VOA
P1465-02A	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	SW8260_W	/				Y	VOA
P1465-02B	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	SW8011_W	/ EDB and DBCP				Y	L1
P1465-02C	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	SW8081_W	/					L1
P1465-02C	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	SW8082_W	/					L1
P1465-02C	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	SW8270_W	/ Special SEL				Y	L1
P1465-02C	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	TPH_W	/ Extractable TPH- DRO					L1
P1465-02D	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	SW9012_W	/ SPECTRUM--					L1
P1465-02E	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	SW6020_W	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1465

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1465-02E	NOB-121-GW	09/30/2015 13:40	10/01/2015	Aqueous	SW7470	/					M4
P1465-03A	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	GRO_W	/					VOA
P1465-03A	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	SW8260_W	/				Y	VOA
P1465-03B	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	SW8011_W	/ EDB and DBCP				Y	L1
P1465-03C	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	SW8081_W	/					L1
P1465-03C	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	SW8082_W	/					L1
P1465-03C	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	SW8270_W	/ Special SEL				Y	L1
P1465-03C	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	TPH_W	/ Extractable TPH- DRO					L1
P1465-03D	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	SW9012_W	/ SPECTRUM--					L1
P1465-03E	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	SW6020_W	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4
P1465-03E	NOB-105-GW	09/30/2015 16:10	10/01/2015	Aqueous	SW7470	/					M4
P1465-04A	TRIP BLANK-03	09/30/2015 16:30	10/01/2015	Aqueous	SW8260_W	/				Y	VOA
P1465-05A	NOB-113-GW-F	09/30/2015 10:10	10/01/2015	Aqueous	SW6020_W	DISSOLVED / Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4
P1465-05A	NOB-113-GW-F	09/30/2015 10:10	10/01/2015	Aqueous	SW7470	DISSOLVED /					M4
P1465-06A	NOB-121-GW-F	09/30/2015 13:40	10/01/2015	Aqueous	SW6020_W	DISSOLVED / Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4
P1465-06A	NOB-121-GW-F	09/30/2015 13:40	10/01/2015	Aqueous	SW7470	DISSOLVED /					M4
P1465-07A	NOB-105-GW-F	09/30/2015 16:10	10/01/2015	Aqueous	SW6020_W	DISSOLVED / Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	M4

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1465

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1465-07A	NOB-105-GW-F	09/30/2015 16:10	10/01/2015	Aqueous	SW7470	DISSOLVED /					M4

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

P1465

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 1

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Lobis Engineering
585 Middlesex St
Lowell MA 01851

Telephone #: 978 683 0891
Project Mgr. ~~G. Deff~~ T. Costa

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR/AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

P1465 Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	EDB/DBCP	Pest/PCB	Metals (CEP Diss./Total)	Cyanide	TPH DRO/GRO
	NOB-113-GW	9/30/15	1010	G	GW	9	5	1	3	X	X	X	X	X	X	X
	NOB-121-GW	9/30/15	1340	G	GW	9	5	1	3	X	X	X	X	X	X	X
	NOB-105-GW	9/30/15	1610	G	GW	9	5	1	3	X	X	X	X	X	X	X
	Trip Blank-03	9/30/15	1630	G	W	2				X						

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	10/1/15	0945	2.2°
				2.6°

☐ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Eurofins Spectrum Analytical, Inc. -- ESA-RI

Received By: WJL	Page 01 of 00
Reviewed By: KP	Log-in Date 10/01/2015
Work Order: P1465	Client Name: Nobis Engineering, Inc
Project Name/Event: Barrington, RI site	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
5. Airbill No. — Drop Off N/A
6. Sample Tags — Present / Absent
   Sample Tag Numbers — Listed / Not Listed on Chain-of-Custody
7. Sample Condition — Intact / Broken / Leaking
8. Cooler Temperature Indicator Bottle — Present / Absent

9. Cooler Temperature	2.6 °C
10. Does information on TR/COCs and sample tags agree?	Yes / No
11. Date Received at Laboratory	10/01/2015
12. Time Received	09:45

Sample Transfer

Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
P1465-01	<2			>12		H	
P1465-02	<2			>12		H	
P1465-03	<2			>12		H	
P1465-04						H	
P1465-05	<2						
P1465-06	<2						
P1465-07	<2						

IR Temp Gun ID:MT-74

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

Last Page of Data Report

Report Date:
14-Oct-15 10:22

eurofins | Spectrum Analytical

☑ Final Report
☐ Re-Issued Report
☐ Revised Report

Laboratory Report

Nobis Engineering, Inc
585 Middlesex Street
Lowell, MA 01851

Work Order: P1467
Project : Barrington, RI site
Project #:

Attn: Gail DeRuzzo

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
P1467-01	NOB-124-0002	Soil	30-Sep-15 08:20	01-Oct-15 09:45
P1467-02	NOB-124-0709	Soil	30-Sep-15 08:30	01-Oct-15 09:45
P1467-03	NOB-112-0002	Soil	30-Sep-15 09:00	01-Oct-15 09:45
P1467-04	NOB-112-1214	Soil	30-Sep-15 09:10	01-Oct-15 09:45
P1467-05	NOB-120-0002	Soil	30-Sep-15 09:25	01-Oct-15 09:45
P1467-06	NOB-120-0810	Soil	30-Sep-15 09:30	01-Oct-15 09:45
P1467-07	NOB-119-0002	Soil	30-Sep-15 09:50	01-Oct-15 09:45
P1467-08	NOB-119-0507	Soil	30-Sep-15 10:25	01-Oct-15 09:45
P1467-09	NOB-122-0002	Soil	30-Sep-15 10:45	01-Oct-15 09:45
P1467-10	NOB-122-1315	Soil	30-Sep-15 11:00	01-Oct-15 09:45
P1467-11	DUP-02	Soil	30-Sep-15 10:50	01-Oct-15 09:45
P1467-12	NOB-123-0002	Soil	30-Sep-15 11:15	01-Oct-15 09:45
P1467-13	NOB-123-0507	Soil	30-Sep-15 11:20	01-Oct-15 09:45
P1467-14	NOB-108-0002	Soil	30-Sep-15 11:50	01-Oct-15 09:45
P1467-15	NOB-108-1012	Soil	30-Sep-15 11:55	01-Oct-15 09:45
P1467-16	NOB-109-0002	Soil	30-Sep-15 12:50	01-Oct-15 09:45
P1467-17	NOB-109-0810	Soil	30-Sep-15 13:10	01-Oct-15 09:45
P1467-18	NOB-110-0002	Soil	30-Sep-15 13:30	01-Oct-15 09:45
P1467-19	NOB-110-0507	Soil	30-Sep-15 13:40	01-Oct-15 09:45
P1467-20	NOB-111-0002	Soil	30-Sep-15 14:00	01-Oct-15 09:45
P1467-21	DUP-01	Soil	30-Sep-15 14:05	01-Oct-15 09:45
P1467-22	NOB-111-0709	Soil	30-Sep-15 14:10	01-Oct-15 09:45
P1467-23	TRIP BLANK-03	Soil	30-Sep-15 16:00	01-Oct-15 09:45

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. The results relate only to the samples(s) as received. This report may not be reproduced, except in full, without written approval from Spectrum Analytical.

All applicable NELAC or USEPA CLP requirments have been meet.

Eurofins Spectrum Analytical (ESA-RI) is accredited under the National Environmental Laboratory Approval Program (NELAP) and DoD Environmental Laboratory Accreditation Program (ELAP), holds Organic and Inorganic contracts under the USEPA CLP Program and is certified under several states. The current list of our laboratory approvals and certifications is available on the Certifications page on our web site at www.spectrum-analytical.com.

Please contact the Laboratory or Technical Director at 401-732-3400 with any questions regarding the data contained in the laboratory report.

Department of Defense	N/A
Connecticut	PH-0153
Delaware	N/A
Florida	E87664
Maine	2007037
Massachusetts	M-RI907
New Hampshire	2631
New Jersey	RI001
New York	11522
Rhode Island	LAI00301
USDA	P330-08-00023
USEPA - ISM	EP-W-09-039
USEPA - SOM	EP-W-11-033

NELAP ACCREDITED TNI LABORATORY

LABORATORY ACCREDITATION BUREAU ACCREDITED
Certificate # L2247 Testing

Authorized by:

Yihai Ding
Laboratory Director

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1467

SW846 8260C, VOC by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8260C

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: V1
Instrument Type: GCMS-VOA

Description: HP5890 II / HP5972
Manufacturer: Hewlett-Packard
Model: 5890 / 5972
GC Column used: 30 m X 0.25 mm ID [1.40 um thickness] DB-624 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-109-0002 (P1467-16CMS), NOB-109-0002 (P1467-16CMSD), NOB-119-0002 (P1467-07CMS) and NOB-119-0002 (P1467-07CMSD).

Percent recoveries were within the QC limits with the following exceptions:

NOB-119-0002 (P1467-07CMS), recovery is below criteria for 1,2,3-Trichlorobenzene at 46% with criteria of (60-135), 1,2,4-Trichlorobenzene at 46% with criteria of (65-130), 1,2-Dichlorobenzene at 67% with criteria of (75-120), 1,3-Dichlorobenzene at 66% with criteria of (70-125), 1,4-Dichlorobenzene at 65% with criteria of (70-125), 4-Chlorotoluene at 71% with criteria of (75-125), 4-Isopropyltoluene at 63% with criteria of (75-135), Hexachlorobutadiene at 37% with criteria of (55-140), m,p-Xylene at 80% with criteria of (80-125), n-Butylbenzene at 52% with criteria of (65-140), sec-Butylbenzene at 64% with criteria of (65-130), Trichloroethene at 64% with criteria

of (75-125) and Xylene (Total) at 81% with criteria of (83-125).

NOB-119-0002 (P1467-07CMSD), recovery is below criteria for 1,2,4-Trichlorobenzene at 62% with criteria of (65-130) and Trichloroethene at 66% with criteria of (75-125).

NOB-109-0002 (P1467-16CMS), recovery is below criteria for 1,1-Dichloropropene at 70% with criteria of (70-135), 1,2,4-Trichlorobenzene at 65% with criteria of (65-130), Benzene at 75% with criteria of (75-125), Carbon disulfide at 30% with criteria of (45-160) and Trichloroethene at 64% with criteria of (75-125).

NOB-109-0002 (P1467-16CMSD), recovery is below criteria for 1,2,3-Trichlorobenzene at 51% with criteria of (60-135), 1,2,4-Trichlorobenzene at 54% with criteria of (65-130), 1,2-Dichlorobenzene at 73% with criteria of (75-120) and Trichloroethene at 66% with criteria of (75-125).

Replicate RPDs were within the advisory QC limits with the exception of the following:

NOB-109-0002 (P1467-16CMSD), Relative Percent Difference is greater than reported RPD limit for Carbon disulfide.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution

· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integration was performed on the following:

VSTD0501H 2,2-Dichloropropane due to M6

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1467

SW846 8015D GRO, Gasoline Range Organic (GRO) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D GRO

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW5035

V. INSTRUMENTATION

The following instrumentation was used to perform

Instrument Code: V4
Instrument Type: GC-FID/PID

Description: HP5890 A
Manufacturer: Hewlett-Packard
Model: 5890
GC Column used: 30 m X 0.53 mm ID [um thickness] RTX-502.2 capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-109-0002 (P1467-16DMS), NOB-109-0002 (P1467-16DMSD), NOB-119-0002 (P1467-07DMS) and NOB-119-0002 (P1467-07DMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Internal Standards:

NA.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1467

SW846 8270D, SVOA by GC-MS

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8270D

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: S6
Instrument Type: GCMS-Semi

Description: HP7890A
Manufacturer: Agilent
Model: 7890A/5973
GC Column used: 30 m X 0.25 mm ID [0.25 um thickness] ZB-Semi capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

NOB-120-0002 (P1467-05A), recovery is above criteria for Phenol-d5 at 105% with criteria of (40-100).

NOB-119-0002 (P1467-07AMS), recovery is above criteria for Phenol-d5 at 106% with criteria of (40-100).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits with the following exceptions. Please note that most test procedures allow for several compounds outside of the QC limits for the LCS, although this may indicate a bias for this specific compound.

LCS-83206 in batch 83206, recovery is above criteria for Benzo(a)anthracene at 112% with criteria of (50-110).

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-109-0002 (P1467-16AMS), NOB-109-0002 (P1467-16AMSD), NOB-119-0002 (P1467-07AMS) and NOB-119-0002 (P1467-07AMSD).

Percent recoveries were within the QC limits with the following exceptions:

NOB-119-0002 (P1467-07AMS), recovery is above criteria for Phenol at 102% with criteria of (40-100).

Replicate RPDs were within the advisory QC limits with the exception of the following:

NOB-119-0002 (P1467-07AMSD), Relative Percent Difference is greater than reported RPD limit for 2,4-Dinitrophenol.

E. Internal Standards:

Internal standard peak areas were within the QC limits.

F. Dilutions:

No sample in this SDG required analysis at dilution.

G. Samples:

No other unusual occurrences were noted during sample analysis.

H. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution
· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

Manual integrations were performed on the following:

SSTD0056T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid, Pentachlorophenol due to M6

SSTD0106T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Benzoic acid due to M6

SSTD0256J 2,4-Dinitrophenol due to M6

SSTD0256K Pentachlorophenol due to M6

SSTD0406T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0606T 1,4-Dioxane-d8 , 2,4-Dinitrophenol due to M6

SSTD0806T 1,4-Dioxane-d8 , 2,4-Dinitrophenol, Indeno(1,2,3-cd)pyrene due to M6

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1467

SW846 8081B, Organochlorine Pesticides by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8081B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E6
Instrument Type: GC-ECD
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.
GC Column used: 30 m X 0.53 mm ID [0.42 um thickness] CLPPestII capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

NOB-124-0709 (P1467-02A), recovery is below criteria for Decachlorobiphenyl on front column at 50% with criteria of (55-130).

NOB-112-0002 (P1467-03A), recovery is below criteria for Decachlorobiphenyl on front column at 46% with criteria of (55-130).

NOB-120-0002 (P1467-05A), recovery is below criteria for Decachlorobiphenyl on front column at 52% with criteria of (55-130).

NOB-120-0810 (P1467-06A), recovery is below criteria for Decachlorobiphenyl on front column at 48% with criteria of (55-130).

NOB-119-0002 (P1467-07AMSD), recovery is below criteria for Decachlorobiphenyl on front column at 48% with criteria of (55-130).

NOB-119-0507 (P1467-08A), recovery is below criteria for Decachlorobiphenyl on front column at 47% with criteria of (55-130).

NOB-122-0002 (P1467-09A), recovery is below criteria for Decachlorobiphenyl on front column at 51% with criteria of (55-130).

NOB-123-0507 (P1467-13A), recovery is below criteria for Decachlorobiphenyl on rear column at 43% with criteria of (55-130) and Decachlorobiphenyl on front column at 36% with criteria of (55-130).

NOB-108-0002 (P1467-14A), recovery is below criteria for Decachlorobiphenyl on front column at 54% with criteria of (55-130).

NOB-108-1012 (P1467-15A), recovery is below criteria for Decachlorobiphenyl on rear column at 41% with criteria of (55-130) and Decachlorobiphenyl on front column at 34% with criteria of (55-130).

NOB-109-0002 (P1467-16A), recovery is below criteria for Decachlorobiphenyl on front column at 47% with criteria of (55-130).

NOB-109-0002 (P1467-16AMS), recovery is below criteria for Decachlorobiphenyl on rear column at 48% with criteria of (55-130) and Decachlorobiphenyl on front column at 39% with criteria of (55-130).

NOB-109-0002 (P1467-16AMSD), recovery is below criteria for Decachlorobiphenyl on front column at 54% with criteria of (55-130).

NOB-109-0810 (P1467-17A), recovery is below criteria for Decachlorobiphenyl on front column at 50% with criteria of (55-130).

NOB-110-0507 (P1467-19A), recovery is below criteria for Decachlorobiphenyl on front column at 49% with criteria of (55-130).

NOB-111-0002 (P1467-20A), recovery is below criteria for Decachlorobiphenyl on front column at 53% with criteria of (55-130).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-109-0002 (P1467-16AMS), NOB-109-0002 (P1467-16AMSD), NOB-119-0002 (P1467-07AMS) and NOB-119-0002 (P1467-07AMSD).

Percent recoveries were within the QC limits with the following exceptions:

NOB-119-0002 (P1467-07AMS), recovery is above criteria for gamma-Chlordane on rear column at 138% with criteria of (65-

125), recovery is below criteria for alpha-BHC on front column at 57% with criteria of (60-125) and gamma-BHC (Lindane) on front column at 59% with criteria of (60-125).

NOB-119-0002 (P1467-07AMSD), recovery is below criteria for 4,4´-DDE on front column at 51% with criteria of (70-125), alpha-BHC on front column at 52% with criteria of (60-125), alpha-Chlordane on front column at 63% with criteria of (65-120), Dieldrin on front column at 56% with criteria of (65-125), Endosulfan sulfate on front column at 51% with criteria of (60-135), Endrin on front column at 59% with criteria of (60-135), Endrin aldehyde on rear column at 0% with criteria of (35-145), Endrin aldehyde on front column at 0% with criteria of (35-145), Endrin ketone on front column at 52% with criteria of (65-135), gamma-BHC (Lindane) on front column at 53% with criteria of (60-125), gamma-Chlordane on front column at 54% with criteria of (65-125) and Heptachlor epoxide on front column at 62% with criteria of (65-130).

NOB-109-0002 (P1467-16AMS), recovery is below criteria for 4,4´-DDE on rear column at 42% with criteria of (70-125), 4,4´-DDE on front column at 26% with criteria of (70-125), 4,4´-DDT on front column at 34% with criteria of (45-140), alpha-BHC on front column at 48% with criteria of (60-125), alpha-Chlordane on rear column at 49% with criteria of (65-120), alpha-Chlordane on front column at 8% with criteria of (65-120), delta-BHC on front column at 55% with criteria of (55-130), Dieldrin on front column at 48% with criteria of (65-125), Endosulfan sulfate on front column at 47% with criteria of (60-135), Endrin on front column at 53% with criteria of (60-135), Endrin aldehyde on rear column at 16% with criteria of (35-145), Endrin aldehyde on front column at 14% with criteria of (35-145), Endrin ketone on rear column at 58% with criteria of (65-135), Endrin ketone on front column at 45% with criteria of (65-135), gamma-BHC (Lindane) on front column at 48% with criteria of (60-125), gamma-Chlordane on rear column at 49% with criteria of (65-125), gamma-Chlordane on front column at 38% with criteria of (65-125), Heptachlor epoxide on front column at 51% with criteria of (65-130) and Methoxychlor on front column at 50% with criteria of (55-145).

NOB-109-0002 (P1467-16AMSD), recovery is below criteria for 4,4´-DDE on rear column at 46% with criteria of (70-125), 4,4´-DDE on front column at 37% with criteria of (70-125), 4,4´-DDT on front column at 45% with criteria of (45-140), alpha-BHC on front column at 56% with criteria of (60-125), alpha-Chlordane on rear column at 53% with criteria of (65-120), alpha-Chlordane on front column at 18% with criteria of (65-120), beta-BHC on front column at 48% with criteria of (60-125), Dieldrin on front column at 58% with

criteria of (65-125), Endosulfan sulfate on front column at 56% with criteria of (60-135), Endrin aldehyde on rear column at 15% with criteria of (35-145), Endrin aldehyde on front column at 16% with criteria of (35-145), Endrin ketone on front column at 56% with criteria of (65-135), gamma-BHC (Lindane) on front column at 55% with criteria of (60-125), gamma-Chlordane on rear column at 64% with criteria of (65-125), gamma-Chlordane on front column at 47% with criteria of (65-125) and Heptachlor epoxide on front column at 59% with criteria of (65-130).

Replicate RPDs were within the advisory QC limits with the exception of the following:

NOB-119-0002 (P1467-07AMSD), Relative Percent Difference is greater than reported RPD limit for 4,4´-DDD on front column, 4,4´-DDE on front column, 4,4´-DDT on rear column, 4,4´-DDT on front column, alpha-Chlordane on front column, Endrin ketone on rear column, Endrin ketone on front column, Methoxychlor on rear column, Methoxychlor on front column.

E. Dilutions:

The following samples were analyzed at dilution:

NOB-123-0002 (P1467-12A) : Dilution Factor: 2

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

Where needed, manual integrations were performed to improve data quality. The corrections were reviewed and associated hardcopies generated and reported as required. Manual integrations are coded to provide the data reviewer justification for such action. The codes are labeled on the ion chromatogram signal (GC/MS signal) and chromatogram for GC based analysis as follows:

· M1 peak tailing or fronting
· M2 peak co-elution

· M3 rising or falling baseline
· M4 retention time shift
· M5 miscellaneous - under this category, the justification is explained
· M6 software did not integrate peak
· M7 partial peak integration

The following samples were manually integrated:

PEMEI Tetrachloro-m-xylene on front column due to M3

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1467

SW846 8082A, PCB by GC-ECD

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8082A

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: E2
Instrument Type: GC-ECD
Description: HP5890 II +
Manufacturer: Hewlett-Packard

Model: 5890
GC Column used: 30 m X 0.53 mm ID [0.50 um thickness] CLPPest capillary column.

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits with the following exceptions. Please note that the acceptance criteria allow one surrogate recovery outside of the QC limits per fraction.

NOB-108-1012 (P1467-15A), recovery is below criteria for Decachlorobiphenyl on rear column at 58% with criteria of (60-125) and Decachlorobiphenyl on front column at 58% with criteria of (60-125).

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-109-0002 (P1467-16AMS), NOB-109-0002 (P1467-16AMSD), NOB-119-0002 (P1467-07AMS) and NOB-119-0002 (P1467-07AMSD).

Percent recoveries were within the QC limits.

Replicate RPDs were within the advisory QC limits.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

The lower concentration between the primary and confirmatory GC column concentrations is reported due to the presence of interferences unless otherwise indicated. P flags are assigned to compounds when D% between the two columns are greater than 40%.

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1467

SW846 8015D TPH, Total Petroleum Hydrocarbons (TPH) by GC-FID

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 8015D TPH

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3550B

V. INSTRUMENTATION

The following instrumentation was used

Instrument Code: F1
Instrument Type: GC-FID
Description: HP6890
Manufacturer: Hewlett-Packard

Model: 6890

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Surrogates:

Surrogate standard percent recoveries were within the QC limits.

D. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD):

Matrix spikes were performed on samples: NOB-109-0002 (P1467-16AMS), NOB-109-0002 (P1467-16AMSD), NOB-119-0002 (P1467-07AMS) and NOB-119-0002 (P1467-07AMSD).

Percent recoveries were within the QC limits with the following exceptions:

Replicate RPDs were within the advisory QC limits with the exception of the following:

NOB-109-0002 (P1467-16AMSD), Relative Percent Difference is greater than reported RPD limit for Extractable Total Petroleum Hydrocarbon.

E. Dilutions:

No sample in this SDG required analysis at dilution.

F. Samples:

No other unusual occurrences were noted during sample analysis.

G. Manual Integration

No sample in this SDG were performed with manual integration.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed:_____ _____

Date:_____10/13/2015_____

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1467

SW846 6010C, SW846 7471B

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test codes: SW846 6010C, SW846 7471B

IV. PREPARATION

Soil Samples were prepared following procedures in laboratory test code: SW3050B
Soil Samples were prepared following procedures in laboratory test code: SW7471B

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: FIMS2
Instrument Type: CVAA
Description: FIMS
Manufacturer: Perkin-Elmer
Model: FIMS100

Instrument Code: OPTIMA2
Instrument Type: ICP
Description: Optima 3100 XL
Manufacturer: Perkin-Elmer
Model: 3100 XL

Instrument Code: OPTIMA3
Instrument Type: ICP
Description: Optima ICP-OES
Manufacturer: Perkin-Elmer
Model: 4300 DV

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS):

Percent recoveries for laboratory control samples were within the QC limits.

2. Matrix spike (MS):

Matrix spikes were performed on samples: NOB-109-0002 (P1467-16AMS) and NOB-119-0002 (P1467-07AMS).

Percent recoveries were within the QC limits.

D. Post Digestion Spike (PDS):

Post-digestion spike analysis was performed on sample: NOB-119-0002 (P1467-07APDS).

NOB-119-0002 (P1467-07APDS) for Antimony due to recovery of this element outside of QC limits in the matrix spike.

E. Duplicate sample:

Duplicate analyses were performed on samples: NOB-109-0002 (P1467-16ADUP) and NOB-119-0002 (P1467-07ADUP).

Relative percent differences were within the QC limits with the exception of NOB-109-0002 (P1467-16ADUP) for Mercury.

F. Serial Dilution (SD):

Serial Dilution analyses were performed on samples: NOB-109-0002 (P1467-16ASD), NOB-111-0709 (P1467-22ASD) and NOB-119-0002 (P1467-07ASD).

Percent differences were within the QC limits.

G. Samples:

No other unusual occurrences were noted during sample analysis.

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Signed: Sharon B Lawler

Date: 10/13/2015

REPORT NARRATIVE

Eurofins Spectrum Analytical, Inc.

Client : Nobis Engineering, Inc

Project: Barrington, RI site

Laboratory Workorder / SDG #: P1467

SW846 7196A

I. SAMPLE RECEIPT

No exceptions or unusual conditions were encountered unless a Sample Condition Notification Form, or other record of communication is included with the Sample Receipt Documentation.

II. HOLDING TIMES

A. Sample Preparation:

All samples were prepared within the method-specified holding times.

B. Sample Analysis:

All samples were analyzed within the method-specified holding times.

III. METHODS

Samples were analyzed following procedures in laboratory test code: SW846 3060A

IV. PREPARATION

Samples were prepared following procedures in laboratory test code: SW846 7196A

V. INSTRUMENTATION

The following instrumentation was used:

Instrument Code: SPEC2
Instrument Type: SP

Description: Spectronic 20 Genesys
Manufacturer: Spectronic Instruments
Model: 4004-000

VI. ANALYSIS

A. Calibration:

Calibrations met the method/SOP acceptance criteria.

B. Blanks:

All method blanks were within the acceptance criteria.

C. Spikes:

1. Laboratory Control Spikes (LCS/LCSi):

Percent recoveries for lab control samples were within the QC limits.

2. Matrix Spike / Matrix Spike Duplicate (MS/MSD and MSi/MSiD):

Matrix spikes were performed on samples: NOB-109-0002 (P1467-16AMS), NOB-109-0002 (P1467-16AMSD), NOB-109-0002 (P1467-16AMSI), NOB-109-0002 (P1467-16AMSID), NOB-119-0002 (P1467-07AMS), NOB-119-0002 (P1467-07AMSD), NOB-119-0002 (P1467-07AMSI) and NOB-119-0002 (P1467-07AMSID).

Percent recoveries were within the QC limits with the following exceptions:

NOB-119-0002 (P1467-07AMS), recovery is below criteria for Chromium, Hexavalent at 68% with criteria of (75-125).The MSD was within recovery limits as was the associated LCS and PDS.

Replicate RPDs were within the advisory QC limits.

D. Duplicate sample:

Duplicate analyses were performed on samples: NOB-109-0002 (P1467-16ADUP) and NOB-119-0002 (P1467-07ADUP).

Relative percent differences were within the QC limits.

E. Post Digestion Spike sample (PDS):

Post Digestion spike analyses were performed on samples: NOB-109-0002 (P1467-16APDS) and NOB-119-0002 (P1467-07APDS).

Percent recoveries for PDS samples were within the QC limits.

E. **Dilutions:**

The following samples were analyzed at dilution:

NOB-119-0002 (P1467-07AMSI), dilution factor: 10 for Chromium, Hexavalent
NOB-119-0002 (P1467-07AMSID), dilution factor: 10 for Chromium, Hexavalent
NOB-109-0002 (P1467-16AMSI), dilution factor: 10 for Chromium, Hexavalent
NOB-109-0002 (P1467-16AMSID), dilution factor: 10 for Chromium, Hexavalent

F. **Samples:**

No other unusual occurrences were noted during sample analysis.

I certify that this data package is in compliance with the terms and conditions agreed to by the client and Spectrum, both technically and for completeness, except for the conditions noted above. Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or designated person, as verified by the following signature.

Signed: Sharon B Lawler

Date: 10/08/2015

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Chloromethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Vinyl chloride	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Bromomethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Chloroethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Trichlorofluoromethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,1-Dichloroethene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Acetone	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Carbon disulfide	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Methylene chloride	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Methyl tert-butyl ether	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,1-Dichloroethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
2-Butanone	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
2,2-Dichloropropane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Bromochloromethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Chloroform	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,1,1-Trichloroethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,1-Dichloropropene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Carbon tetrachloride	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2-Dichloroethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Benzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Trichloroethene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2-Dichloropropane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Dibromomethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Bromodichloromethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
4-Methyl-2-pentanone	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Toluene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,1,2-Trichloroethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,3-Dichloropropane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Tetrachloroethene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
2-Hexanone	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Dibromochloromethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2-Dibromoethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Chlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Ethylbenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
m,p-Xylene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
o-Xylene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Xylene (Total)	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Styrene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Bromoform	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Isopropylbenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Bromobenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2,3-Trichloropropane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
n-Propylbenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
2-Chlorotoluene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
4-Chlorotoluene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
tert-Butylbenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
sec-Butylbenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
4-Isopropyltoluene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,3-Dichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,4-Dichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
n-Butylbenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2-Dichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2-Dibromo-3-chloropropane	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Hexachlorobutadiene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Naphthalene	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Diethyl ether	ND		3.7	ug/Kg	1	10/05/2015 11:49	83214
Tetrahydrofuran	ND		7.5	ug/Kg	1	10/05/2015 11:49	83214
Surrogate: Dibromofluoromethane	94.6		76-128	%REC	1	10/05/2015 11:49	83214
Surrogate: 1,2-Dichloroethane-d4	94.0		88-110	%REC	1	10/05/2015 11:49	83214
Surrogate: Toluene-d8	107		85-115	%REC	1	10/05/2015 11:49	83214
Surrogate: Bromofluorobenzene	95.0		85-120	%REC	1	10/05/2015 11:49	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Chloromethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Vinyl chloride	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Bromomethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Chloroethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Trichlorofluoromethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,1-Dichloroethene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Acetone	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Carbon disulfide	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Methylene chloride	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
trans-1,2-Dichloroethene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Methyl tert-butyl ether	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,1-Dichloroethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
2-Butanone	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
cis-1,2-Dichloroethene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
2,2-Dichloropropane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Bromochloromethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Chloroform	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,1,1-Trichloroethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,1-Dichloropropene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Carbon tetrachloride	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2-Dichloroethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Benzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Trichloroethene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2-Dichloropropane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Dibromomethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Bromodichloromethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
cis-1,3-Dichloropropene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
4-Methyl-2-pentanone	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Toluene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
trans-1,3-Dichloropropene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,1,2-Trichloroethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,3-Dichloropropane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Tetrachloroethene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
2-Hexanone	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Dibromochloromethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2-Dibromoethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Chlorobenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Ethylbenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
m,p-Xylene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
o-Xylene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Xylene (Total)	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Styrene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Bromoform	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Isopropylbenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,1,2,2-Tetrachloroethane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Bromobenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2,3-Trichloropropane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
n-Propylbenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
2-Chlorotoluene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,3,5-Trimethylbenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
4-Chlorotoluene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
tert-Butylbenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2,4-Trimethylbenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
sec-Butylbenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
4-Isopropyltoluene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,3-Dichlorobenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,4-Dichlorobenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
n-Butylbenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2-Dichlorobenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2-Dibromo-3-chloropropane	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2,4-Trichlorobenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Hexachlorobutadiene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
1,2,3-Trichlorobenzene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Naphthalene	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Diethyl ether	ND		3.3	ug/Kg	1	10/05/2015 12:14	83214
Tetrahydrofuran	ND		6.5	ug/Kg	1	10/05/2015 12:14	83214
Surrogate: Dibromofluoromethane	95.5		76-128	%REC	1	10/05/2015 12:14	83214
Surrogate: 1,2-Dichloroethane-d4	97.5		88-110	%REC	1	10/05/2015 12:14	83214
Surrogate: Toluene-d8	106		85-115	%REC	1	10/05/2015 12:14	83214
Surrogate: Bromofluorobenzene	96.1		85-120	%REC	1	10/05/2015 12:14	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Chloromethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Vinyl chloride	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Bromomethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Chloroethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Trichlorofluoromethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,1-Dichloroethene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Acetone	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Carbon disulfide	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Methylene chloride	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
trans-1,2-Dichloroethene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Methyl tert-butyl ether	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,1-Dichloroethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
2-Butanone	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
cis-1,2-Dichloroethene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
2,2-Dichloropropane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Bromochloromethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Chloroform	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,1,1-Trichloroethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,1-Dichloropropene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Carbon tetrachloride	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2-Dichloroethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Benzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Trichloroethene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2-Dichloropropane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Dibromomethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Bromodichloromethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
cis-1,3-Dichloropropene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
4-Methyl-2-pentanone	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Toluene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
trans-1,3-Dichloropropene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,1,2-Trichloroethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,3-Dichloropropane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Tetrachloroethene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
2-Hexanone	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Dibromochloromethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2-Dibromoethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Chlorobenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Ethylbenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
m,p-Xylene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
o-Xylene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Xylene (Total)	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Styrene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Bromoform	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Isopropylbenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,1,2,2-Tetrachloroethane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Bromobenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2,3-Trichloropropane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
n-Propylbenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
2-Chlorotoluene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,3,5-Trimethylbenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
4-Chlorotoluene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
tert-Butylbenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2,4-Trimethylbenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
sec-Butylbenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
4-Isopropyltoluene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,3-Dichlorobenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,4-Dichlorobenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
n-Butylbenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2-Dichlorobenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2-Dibromo-3-chloropropane	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2,4-Trichlorobenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Hexachlorobutadiene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
1,2,3-Trichlorobenzene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Naphthalene	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Diethyl ether	ND		4.0	ug/Kg	1	10/05/2015 12:40	83214
Tetrahydrofuran	ND		8.1	ug/Kg	1	10/05/2015 12:40	83214
Surrogate: Dibromofluoromethane	96.3		76-128	%REC	1	10/05/2015 12:40	83214
Surrogate: 1,2-Dichloroethane-d4	96.5		88-110	%REC	1	10/05/2015 12:40	83214
Surrogate: Toluene-d8	105		85-115	%REC	1	10/05/2015 12:40	83214
Surrogate: Bromofluorobenzene	97.4		85-120	%REC	1	10/05/2015 12:40	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Chloromethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Vinyl chloride	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Bromomethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Chloroethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Trichlorofluoromethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,1-Dichloroethene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Acetone	3.0	J	4.4	ug/Kg	1	10/05/2015 13:05	83214
Carbon disulfide	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Methylene chloride	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
trans-1,2-Dichloroethene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Methyl tert-butyl ether	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,1-Dichloroethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
2-Butanone	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
cis-1,2-Dichloroethene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
2,2-Dichloropropane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Bromochloromethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Chloroform	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,1,1-Trichloroethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,1-Dichloropropene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Carbon tetrachloride	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2-Dichloroethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Benzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Trichloroethene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2-Dichloropropane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Dibromomethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Bromodichloromethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
cis-1,3-Dichloropropene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
4-Methyl-2-pentanone	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Toluene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
trans-1,3-Dichloropropene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,1,2-Trichloroethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,3-Dichloropropane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Tetrachloroethene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
2-Hexanone	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Dibromochloromethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2-Dibromoethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Chlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Ethylbenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
m,p-Xylene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
o-Xylene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Xylene (Total)	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Styrene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Bromoform	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Isopropylbenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,1,2,2-Tetrachloroethane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Bromobenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2,3-Trichloropropane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
n-Propylbenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
2-Chlorotoluene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,3,5-Trimethylbenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
4-Chlorotoluene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
tert-Butylbenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2,4-Trimethylbenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
sec-Butylbenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
4-Isopropyltoluene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,3-Dichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,4-Dichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
n-Butylbenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2-Dichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2-Dibromo-3-chloropropane	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2,4-Trichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Hexachlorobutadiene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
1,2,3-Trichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Naphthalene	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Diethyl ether	ND		4.4	ug/Kg	1	10/05/2015 13:05	83214
Tetrahydrofuran	ND		8.8	ug/Kg	1	10/05/2015 13:05	83214
Surrogate: Dibromofluoromethane	92.4		76-128	%REC	1	10/05/2015 13:05	83214
Surrogate: 1,2-Dichloroethane-d4	91.2		88-110	%REC	1	10/05/2015 13:05	83214
Surrogate: Toluene-d8	106		85-115	%REC	1	10/05/2015 13:05	83214
Surrogate: Bromofluorobenzene	94.9		85-120	%REC	1	10/05/2015 13:05	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Chloromethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Vinyl chloride	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Bromomethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Chloroethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Trichlorofluoromethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,1-Dichloroethene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Acetone	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Carbon disulfide	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Methylene chloride	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Methyl tert-butyl ether	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,1-Dichloroethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
2-Butanone	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
2,2-Dichloropropane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Bromochloromethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Chloroform	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,1,1-Trichloroethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,1-Dichloropropene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Carbon tetrachloride	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2-Dichloroethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Benzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Trichloroethene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2-Dichloropropane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Dibromomethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Bromodichloromethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
4-Methyl-2-pentanone	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Toluene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,1,2-Trichloroethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,3-Dichloropropane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Tetrachloroethene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
2-Hexanone	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Dibromochloromethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2-Dibromoethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Chlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Ethylbenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
m,p-Xylene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
o-Xylene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Xylene (Total)	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Styrene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Bromoform	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Isopropylbenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Bromobenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2,3-Trichloropropane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
n-Propylbenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
2-Chlorotoluene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
4-Chlorotoluene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
tert-Butylbenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
sec-Butylbenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
4-Isopropyltoluene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,3-Dichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,4-Dichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
n-Butylbenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2-Dichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2-Dibromo-3-chloropropane	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Hexachlorobutadiene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Naphthalene	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Diethyl ether	ND		4.1	ug/Kg	1	10/05/2015 13:30	83214
Tetrahydrofuran	ND		8.1	ug/Kg	1	10/05/2015 13:30	83214
Surrogate: Dibromofluoromethane	95.8		76-128	%REC	1	10/05/2015 13:30	83214
Surrogate: 1,2-Dichloroethane-d4	96.3		88-110	%REC	1	10/05/2015 13:30	83214
Surrogate: Toluene-d8	107		85-115	%REC	1	10/05/2015 13:30	83214
Surrogate: Bromofluorobenzene	94.9		85-120	%REC	1	10/05/2015 13:30	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Chloromethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Vinyl chloride	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Bromomethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Chloroethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Trichlorofluoromethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,1-Dichloroethene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Acetone	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Carbon disulfide	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Methylene chloride	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
trans-1,2-Dichloroethene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Methyl tert-butyl ether	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,1-Dichloroethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
2-Butanone	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
cis-1,2-Dichloroethene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
2,2-Dichloropropane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Bromochloromethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Chloroform	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,1,1-Trichloroethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,1-Dichloropropene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Carbon tetrachloride	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2-Dichloroethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Benzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Trichloroethene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2-Dichloropropane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Dibromomethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Bromodichloromethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
cis-1,3-Dichloropropene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
4-Methyl-2-pentanone	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Toluene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
trans-1,3-Dichloropropene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,1,2-Trichloroethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,3-Dichloropropane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Tetrachloroethene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
2-Hexanone	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Dibromochloromethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2-Dibromoethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Chlorobenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Ethylbenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
m,p-Xylene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
o-Xylene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Xylene (Total)	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Styrene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Bromoform	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Isopropylbenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,1,2,2-Tetrachloroethane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Bromobenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2,3-Trichloropropane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
n-Propylbenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
2-Chlorotoluene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,3,5-Trimethylbenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
4-Chlorotoluene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
tert-Butylbenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2,4-Trimethylbenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
sec-Butylbenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
4-Isopropyltoluene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,3-Dichlorobenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,4-Dichlorobenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
n-Butylbenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2-Dichlorobenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2-Dibromo-3-chloropropane	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2,4-Trichlorobenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Hexachlorobutadiene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
1,2,3-Trichlorobenzene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Naphthalene	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Diethyl ether	ND		4.3	ug/Kg	1	10/05/2015 13:55	83214
Tetrahydrofuran	ND		8.6	ug/Kg	1	10/05/2015 13:55	83214
Surrogate: Dibromofluoromethane	94.5		76-128	%REC	1	10/05/2015 13:55	83214
Surrogate: 1,2-Dichloroethane-d4	90.0		88-110	%REC	1	10/05/2015 13:55	83214
Surrogate: Toluene-d8	108		85-115	%REC	1	10/05/2015 13:55	83214
Surrogate: Bromofluorobenzene	96.3		85-120	%REC	1	10/05/2015 13:55	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Chloromethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Vinyl chloride	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Bromomethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Chloroethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Trichlorofluoromethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,1-Dichloroethene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Acetone	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Carbon disulfide	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Methylene chloride	2.2	J	3.4	ug/Kg	1	10/05/2015 14:21	83214
trans-1,2-Dichloroethene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Methyl tert-butyl ether	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,1-Dichloroethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
2-Butanone	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
cis-1,2-Dichloroethene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
2,2-Dichloropropane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Bromochloromethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Chloroform	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,1,1-Trichloroethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,1-Dichloropropene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Carbon tetrachloride	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2-Dichloroethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Benzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Trichloroethene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2-Dichloropropane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Dibromomethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Bromodichloromethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
cis-1,3-Dichloropropene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
4-Methyl-2-pentanone	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Toluene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
trans-1,3-Dichloropropene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,1,2-Trichloroethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,3-Dichloropropane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Tetrachloroethene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
2-Hexanone	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Dibromochloromethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2-Dibromoethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Chlorobenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Ethylbenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
m,p-Xylene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
o-Xylene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Xylene (Total)	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Styrene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Bromoform	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Isopropylbenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,1,2,2-Tetrachloroethane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Bromobenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2,3-Trichloropropane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
n-Propylbenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
2-Chlorotoluene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,3,5-Trimethylbenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
4-Chlorotoluene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
tert-Butylbenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2,4-Trimethylbenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
sec-Butylbenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
4-Isopropyltoluene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,3-Dichlorobenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,4-Dichlorobenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
n-Butylbenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2-Dichlorobenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2-Dibromo-3-chloropropane	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2,4-Trichlorobenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Hexachlorobutadiene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
1,2,3-Trichlorobenzene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Naphthalene	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Diethyl ether	ND		3.4	ug/Kg	1	10/05/2015 14:21	83214
Tetrahydrofuran	ND		6.8	ug/Kg	1	10/05/2015 14:21	83214
Surrogate: Dibromofluoromethane	96.1		76-128	%REC	1	10/05/2015 14:21	83214
Surrogate: 1,2-Dichloroethane-d4	99.6		88-110	%REC	1	10/05/2015 14:21	83214
Surrogate: Toluene-d8	108		85-115	%REC	1	10/05/2015 14:21	83214
Surrogate: Bromofluorobenzene	102		85-120	%REC	1	10/05/2015 14:21	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Chloromethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Vinyl chloride	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Bromomethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Chloroethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Trichlorofluoromethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,1-Dichloroethene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Acetone	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Carbon disulfide	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Methylene chloride	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Methyl tert-butyl ether	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,1-Dichloroethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
2-Butanone	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
2,2-Dichloropropane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Bromochloromethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Chloroform	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,1,1-Trichloroethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,1-Dichloropropene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Carbon tetrachloride	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2-Dichloroethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Benzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Trichloroethene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2-Dichloropropane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Dibromomethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Bromodichloromethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
4-Methyl-2-pentanone	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Toluene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,1,2-Trichloroethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,3-Dichloropropane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Tetrachloroethene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
2-Hexanone	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Dibromochloromethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2-Dibromoethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Chlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Ethylbenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
m,p-Xylene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
o-Xylene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Xylene (Total)	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Styrene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Bromoform	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Isopropylbenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Bromobenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2,3-Trichloropropane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
n-Propylbenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
2-Chlorotoluene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
4-Chlorotoluene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
tert-Butylbenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
sec-Butylbenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
4-Isopropyltoluene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,3-Dichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,4-Dichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
n-Butylbenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2-Dichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2-Dibromo-3-chloropropane	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Hexachlorobutadiene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Naphthalene	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Diethyl ether	ND		3.9	ug/Kg	1	10/05/2015 14:46	83214
Tetrahydrofuran	ND		7.7	ug/Kg	1	10/05/2015 14:46	83214
Surrogate: Dibromofluoromethane	96.1		76-128	%REC	1	10/05/2015 14:46	83214
Surrogate: 1,2-Dichloroethane-d4	93.6		88-110	%REC	1	10/05/2015 14:46	83214
Surrogate: Toluene-d8	107		85-115	%REC	1	10/05/2015 14:46	83214
Surrogate: Bromofluorobenzene	97.8		85-120	%REC	1	10/05/2015 14:46	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Chloromethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Vinyl chloride	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Bromomethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Chloroethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Trichlorofluoromethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,1-Dichloroethene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Acetone	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Carbon disulfide	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Methylene chloride	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
trans-1,2-Dichloroethene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Methyl tert-butyl ether	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,1-Dichloroethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
2-Butanone	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
cis-1,2-Dichloroethene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
2,2-Dichloropropane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Bromochloromethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Chloroform	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,1,1-Trichloroethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,1-Dichloropropene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Carbon tetrachloride	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2-Dichloroethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Benzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Trichloroethene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2-Dichloropropane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Dibromomethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Bromodichloromethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
cis-1,3-Dichloropropene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
4-Methyl-2-pentanone	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Toluene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
trans-1,3-Dichloropropene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,1,2-Trichloroethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,3-Dichloropropane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Tetrachloroethene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
2-Hexanone	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Dibromochloromethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2-Dibromoethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Chlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Ethylbenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
m,p-Xylene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
o-Xylene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Xylene (Total)	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Styrene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Bromoform	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Isopropylbenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,1,2,2-Tetrachloroethane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Bromobenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2,3-Trichloropropane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
n-Propylbenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
2-Chlorotoluene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,3,5-Trimethylbenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
4-Chlorotoluene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
tert-Butylbenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2,4-Trimethylbenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
sec-Butylbenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
4-Isopropyltoluene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,3-Dichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,4-Dichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
n-Butylbenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2-Dichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2-Dibromo-3-chloropropane	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2,4-Trichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Hexachlorobutadiene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
1,2,3-Trichlorobenzene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Naphthalene	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Diethyl ether	ND		4.4	ug/Kg	1	10/05/2015 15:11	83214
Tetrahydrofuran	ND		8.9	ug/Kg	1	10/05/2015 15:11	83214
Surrogate: Dibromofluoromethane	95.6		76-128	%REC	1	10/05/2015 15:11	83214
Surrogate: 1,2-Dichloroethane-d4	98.5		88-110	%REC	1	10/05/2015 15:11	83214
Surrogate: Toluene-d8	107		85-115	%REC	1	10/05/2015 15:11	83214
Surrogate: Bromofluorobenzene	98.3		85-120	%REC	1	10/05/2015 15:11	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Chloromethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Vinyl chloride	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Bromomethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Chloroethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Trichlorofluoromethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,1-Dichloroethene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Acetone	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Carbon disulfide	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Methylene chloride	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Methyl tert-butyl ether	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,1-Dichloroethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
2-Butanone	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
2,2-Dichloropropane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Bromochloromethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Chloroform	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,1,1-Trichloroethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,1-Dichloropropene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Carbon tetrachloride	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2-Dichloroethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Benzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Trichloroethene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2-Dichloropropane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Dibromomethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Bromodichloromethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
4-Methyl-2-pentanone	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Toluene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,1,2-Trichloroethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,3-Dichloropropane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Tetrachloroethene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
2-Hexanone	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Dibromochloromethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2-Dibromoethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Chlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Ethylbenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
m,p-Xylene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
o-Xylene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Xylene (Total)	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Styrene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Bromoform	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Isopropylbenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Bromobenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2,3-Trichloropropane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
n-Propylbenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
2-Chlorotoluene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
4-Chlorotoluene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
tert-Butylbenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
sec-Butylbenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
4-Isopropyltoluene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,3-Dichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,4-Dichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
n-Butylbenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2-Dichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2-Dibromo-3-chloropropane	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Hexachlorobutadiene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Naphthalene	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Diethyl ether	ND		3.9	ug/Kg	1	10/05/2015 15:35	83214
Tetrahydrofuran	ND		7.8	ug/Kg	1	10/05/2015 15:35	83214
Surrogate: Dibromofluoromethane	100		76-128	%REC	1	10/05/2015 15:35	83214
Surrogate: 1,2-Dichloroethane-d4	103		88-110	%REC	1	10/05/2015 15:35	83214
Surrogate: Toluene-d8	103		85-115	%REC	1	10/05/2015 15:35	83214
Surrogate: Bromofluorobenzene	98.3		85-120	%REC	1	10/05/2015 15:35	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02 **Project:** Barrington, RI site
Lab ID: P1467-11 **Collection Date:** 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Chloromethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Vinyl chloride	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Bromomethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Chloroethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Trichlorofluoromethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,1-Dichloroethene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Acetone	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Carbon disulfide	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Methylene chloride	11		4.8	ug/Kg	1	10/06/2015 11:32	83228
trans-1,2-Dichloroethene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Methyl tert-butyl ether	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,1-Dichloroethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
2-Butanone	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
cis-1,2-Dichloroethene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
2,2-Dichloropropane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Bromochloromethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Chloroform	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,1,1-Trichloroethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,1-Dichloropropene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Carbon tetrachloride	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2-Dichloroethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Benzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Trichloroethene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2-Dichloropropane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Dibromomethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Bromodichloromethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
cis-1,3-Dichloropropene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
4-Methyl-2-pentanone	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Toluene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
trans-1,3-Dichloropropene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,1,2-Trichloroethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,3-Dichloropropane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Tetrachloroethene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
2-Hexanone	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Dibromochloromethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2-Dibromoethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Chlorobenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02 **Project:** Barrington, RI site
Lab ID: P1467-11 **Collection Date:** 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Ethylbenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
m,p-Xylene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
o-Xylene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Xylene (Total)	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Styrene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Bromoform	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Isopropylbenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,1,2,2-Tetrachloroethane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Bromobenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2,3-Trichloropropane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
n-Propylbenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
2-Chlorotoluene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,3,5-Trimethylbenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
4-Chlorotoluene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
tert-Butylbenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2,4-Trimethylbenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
sec-Butylbenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
4-Isopropyltoluene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,3-Dichlorobenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,4-Dichlorobenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
n-Butylbenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2-Dichlorobenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2-Dibromo-3-chloropropane	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2,4-Trichlorobenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Hexachlorobutadiene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
1,2,3-Trichlorobenzene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Naphthalene	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Diethyl ether	ND		4.8	ug/Kg	1	10/06/2015 11:32	83228
Tetrahydrofuran	ND		9.7	ug/Kg	1	10/06/2015 11:32	83228
Surrogate: Dibromofluoromethane	97.1		76-128	%REC	1	10/06/2015 11:32	83228
Surrogate: 1,2-Dichloroethane-d4	95.3		88-110	%REC	1	10/06/2015 11:32	83228
Surrogate: Toluene-d8	105		85-115	%REC	1	10/06/2015 11:32	83228
Surrogate: Bromofluorobenzene	98.0		85-120	%REC	1	10/06/2015 11:32	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002 **Project:** Barrington, RI site
Lab ID: P1467-12 **Collection Date:** 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Chloromethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Vinyl chloride	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Bromomethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Chloroethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Trichlorofluoromethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,1-Dichloroethene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Acetone	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Carbon disulfide	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Methylene chloride	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
trans-1,2-Dichloroethene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Methyl tert-butyl ether	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,1-Dichloroethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
2-Butanone	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
cis-1,2-Dichloroethene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
2,2-Dichloropropane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Bromochloromethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Chloroform	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,1,1-Trichloroethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,1-Dichloropropene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Carbon tetrachloride	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2-Dichloroethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Benzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Trichloroethene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2-Dichloropropane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Dibromomethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Bromodichloromethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
cis-1,3-Dichloropropene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
4-Methyl-2-pentanone	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Toluene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
trans-1,3-Dichloropropene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,1,2-Trichloroethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,3-Dichloropropane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Tetrachloroethene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
2-Hexanone	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Dibromochloromethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2-Dibromoethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Chlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002 **Project:** Barrington, RI site
Lab ID: P1467-12 **Collection Date:** 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Ethylbenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
m,p-Xylene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
o-Xylene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Xylene (Total)	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Styrene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Bromoform	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Isopropylbenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,1,2,2-Tetrachloroethane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Bromobenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2,3-Trichloropropane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
n-Propylbenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
2-Chlorotoluene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,3,5-Trimethylbenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
4-Chlorotoluene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
tert-Butylbenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2,4-Trimethylbenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
sec-Butylbenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
4-Isopropyltoluene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,3-Dichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,4-Dichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
n-Butylbenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2-Dichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2-Dibromo-3-chloropropane	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2,4-Trichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Hexachlorobutadiene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
1,2,3-Trichlorobenzene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Naphthalene	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Diethyl ether	ND		4.1	ug/Kg	1	10/05/2015 16:26	83214
Tetrahydrofuran	ND		8.2	ug/Kg	1	10/05/2015 16:26	83214
Surrogate: Dibromofluoromethane	98.6		76-128	%REC	1	10/05/2015 16:26	83214
Surrogate: 1,2-Dichloroethane-d4	97.2		88-110	%REC	1	10/05/2015 16:26	83214
Surrogate: Toluene-d8	108		85-115	%REC	1	10/05/2015 16:26	83214
Surrogate: Bromofluorobenzene	97.0		85-120	%REC	1	10/05/2015 16:26	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507 **Project:** Barrington, RI site
Lab ID: P1467-13 **Collection Date:** 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Chloromethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Vinyl chloride	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Bromomethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Chloroethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Trichlorofluoromethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,1-Dichloroethene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Acetone	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Carbon disulfide	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Methylene chloride	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Methyl tert-butyl ether	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,1-Dichloroethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
2-Butanone	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
cis-1,2-Dichloroethene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
2,2-Dichloropropane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Bromochloromethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Chloroform	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,1,1-Trichloroethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,1-Dichloropropene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Carbon tetrachloride	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2-Dichloroethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Benzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Trichloroethene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2-Dichloropropane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Dibromomethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Bromodichloromethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
4-Methyl-2-pentanone	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Toluene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,1,2-Trichloroethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,3-Dichloropropane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Tetrachloroethene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
2-Hexanone	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Dibromochloromethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2-Dibromoethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Chlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507 **Project:** Barrington, RI site
Lab ID: P1467-13 **Collection Date:** 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Ethylbenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
m,p-Xylene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
o-Xylene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Xylene (Total)	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Styrene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Bromoform	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Isopropylbenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Bromobenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2,3-Trichloropropane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
n-Propylbenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
2-Chlorotoluene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,3,5-Trimethylbenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
4-Chlorotoluene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
tert-Butylbenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2,4-Trimethylbenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
sec-Butylbenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
4-Isopropyltoluene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,3-Dichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,4-Dichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
n-Butylbenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2-Dichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2-Dibromo-3-chloropropane	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Hexachlorobutadiene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
1,2,3-Trichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Naphthalene	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Diethyl ether	ND		3.6	ug/Kg	1	10/05/2015 16:51	83214
Tetrahydrofuran	ND		7.2	ug/Kg	1	10/05/2015 16:51	83214
Surrogate: Dibromofluoromethane	92.3		76-128	%REC	1	10/05/2015 16:51	83214
Surrogate: 1,2-Dichloroethane-d4	89.4		88-110	%REC	1	10/05/2015 16:51	83214
Surrogate: Toluene-d8	107		85-115	%REC	1	10/05/2015 16:51	83214
Surrogate: Bromofluorobenzene	99.1		85-120	%REC	1	10/05/2015 16:51	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002 **Project:** Barrington, RI site
Lab ID: P1467-14 **Collection Date:** 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Chloromethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Vinyl chloride	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Bromomethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Chloroethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Trichlorofluoromethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,1-Dichloroethene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Acetone	48		3.6	ug/Kg	1	10/05/2015 17:16	83214
Carbon disulfide	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Methylene chloride	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
trans-1,2-Dichloroethene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Methyl tert-butyl ether	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,1-Dichloroethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
2-Butanone	14		3.6	ug/Kg	1	10/05/2015 17:16	83214
cis-1,2-Dichloroethene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
2,2-Dichloropropane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Bromochloromethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Chloroform	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,1,1-Trichloroethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,1-Dichloropropene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Carbon tetrachloride	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2-Dichloroethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Benzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Trichloroethene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2-Dichloropropane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Dibromomethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Bromodichloromethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
cis-1,3-Dichloropropene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
4-Methyl-2-pentanone	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Toluene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
trans-1,3-Dichloropropene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,1,2-Trichloroethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,3-Dichloropropane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Tetrachloroethene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
2-Hexanone	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Dibromochloromethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2-Dibromoethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Chlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002 **Project:** Barrington, RI site
Lab ID: P1467-14 **Collection Date:** 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Ethylbenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
m,p-Xylene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
o-Xylene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Xylene (Total)	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Styrene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Bromoform	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Isopropylbenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,1,2,2-Tetrachloroethane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Bromobenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2,3-Trichloropropane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
n-Propylbenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
2-Chlorotoluene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,3,5-Trimethylbenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
4-Chlorotoluene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
tert-Butylbenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2,4-Trimethylbenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
sec-Butylbenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
4-Isopropyltoluene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,3-Dichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,4-Dichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
n-Butylbenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2-Dichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2-Dibromo-3-chloropropane	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2,4-Trichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Hexachlorobutadiene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
1,2,3-Trichlorobenzene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Naphthalene	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Diethyl ether	ND		3.6	ug/Kg	1	10/05/2015 17:16	83214
Tetrahydrofuran	ND		7.2	ug/Kg	1	10/05/2015 17:16	83214
Surrogate: Dibromofluoromethane	95.6		76-128	%REC	1	10/05/2015 17:16	83214
Surrogate: 1,2-Dichloroethane-d4	100		88-110	%REC	1	10/05/2015 17:16	83214
Surrogate: Toluene-d8	109		85-115	%REC	1	10/05/2015 17:16	83214
Surrogate: Bromofluorobenzene	100		85-120	%REC	1	10/05/2015 17:16	83214

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012 **Project:** Barrington, RI site
Lab ID: P1467-15 **Collection Date:** 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Chloromethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Vinyl chloride	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Bromomethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Chloroethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Trichlorofluoromethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,1-Dichloroethene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Acetone	3.6		2.8	ug/Kg	1	10/06/2015 12:23	83228
Carbon disulfide	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Methylene chloride	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
trans-1,2-Dichloroethene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Methyl tert-butyl ether	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,1-Dichloroethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
2-Butanone	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
cis-1,2-Dichloroethene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
2,2-Dichloropropane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Bromochloromethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Chloroform	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,1,1-Trichloroethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,1-Dichloropropene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Carbon tetrachloride	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2-Dichloroethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Benzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Trichloroethene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2-Dichloropropane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Dibromomethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Bromodichloromethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
cis-1,3-Dichloropropene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
4-Methyl-2-pentanone	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Toluene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
trans-1,3-Dichloropropene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,1,2-Trichloroethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,3-Dichloropropane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Tetrachloroethene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
2-Hexanone	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Dibromochloromethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2-Dibromoethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Chlorobenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012 **Project:** Barrington, RI site
Lab ID: P1467-15 **Collection Date:** 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Ethylbenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
m,p-Xylene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
o-Xylene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Xylene (Total)	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Styrene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Bromoform	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Isopropylbenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,1,2,2-Tetrachloroethane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Bromobenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2,3-Trichloropropane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
n-Propylbenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
2-Chlorotoluene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,3,5-Trimethylbenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
4-Chlorotoluene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
tert-Butylbenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2,4-Trimethylbenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
sec-Butylbenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
4-Isopropyltoluene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,3-Dichlorobenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,4-Dichlorobenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
n-Butylbenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2-Dichlorobenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2-Dibromo-3-chloropropane	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2,4-Trichlorobenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Hexachlorobutadiene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
1,2,3-Trichlorobenzene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Naphthalene	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Diethyl ether	ND		2.8	ug/Kg	1	10/06/2015 12:23	83228
Tetrahydrofuran	ND		5.7	ug/Kg	1	10/06/2015 12:23	83228
Surrogate: Dibromofluoromethane	97.5		76-128	%REC	1	10/06/2015 12:23	83228
Surrogate: 1,2-Dichloroethane-d4	101		88-110	%REC	1	10/06/2015 12:23	83228
Surrogate: Toluene-d8	104		85-115	%REC	1	10/06/2015 12:23	83228
Surrogate: Bromofluorobenzene	98.3		85-120	%REC	1	10/06/2015 12:23	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Chloromethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Vinyl chloride	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Bromomethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Chloroethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Trichlorofluoromethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,1-Dichloroethene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Acetone	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Carbon disulfide	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Methylene chloride	2.7	J	3.8	ug/Kg	1	10/06/2015 12:49	83228
trans-1,2-Dichloroethene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Methyl tert-butyl ether	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,1-Dichloroethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
2-Butanone	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
cis-1,2-Dichloroethene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
2,2-Dichloropropane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Bromochloromethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Chloroform	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,1,1-Trichloroethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,1-Dichloropropene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Carbon tetrachloride	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2-Dichloroethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Benzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Trichloroethene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2-Dichloropropane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Dibromomethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Bromodichloromethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
cis-1,3-Dichloropropene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
4-Methyl-2-pentanone	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Toluene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
trans-1,3-Dichloropropene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,1,2-Trichloroethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,3-Dichloropropane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Tetrachloroethene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
2-Hexanone	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Dibromochloromethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2-Dibromoethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Chlorobenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Ethylbenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
m,p-Xylene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
o-Xylene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Xylene (Total)	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Styrene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Bromoform	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Isopropylbenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,1,2,2-Tetrachloroethane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Bromobenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2,3-Trichloropropane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
n-Propylbenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
2-Chlorotoluene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,3,5-Trimethylbenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
4-Chlorotoluene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
tert-Butylbenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2,4-Trimethylbenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
sec-Butylbenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
4-Isopropyltoluene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,3-Dichlorobenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,4-Dichlorobenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
n-Butylbenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2-Dichlorobenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2-Dibromo-3-chloropropane	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2,4-Trichlorobenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Hexachlorobutadiene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
1,2,3-Trichlorobenzene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Naphthalene	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Diethyl ether	ND		3.8	ug/Kg	1	10/06/2015 12:49	83228
Tetrahydrofuran	ND		7.7	ug/Kg	1	10/06/2015 12:49	83228
Surrogate: Dibromofluoromethane	98.1		76-128	%REC	1	10/06/2015 12:49	83228
Surrogate: 1,2-Dichloroethane-d4	98.5		88-110	%REC	1	10/06/2015 12:49	83228
Surrogate: Toluene-d8	104		85-115	%REC	1	10/06/2015 12:49	83228
Surrogate: Bromofluorobenzene	96.1		85-120	%REC	1	10/06/2015 12:49	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Chloromethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Vinyl chloride	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Bromomethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Chloroethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Trichlorofluoromethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,1-Dichloroethene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Acetone	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Carbon disulfide	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Methylene chloride	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
trans-1,2-Dichloroethene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Methyl tert-butyl ether	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,1-Dichloroethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
2-Butanone	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
cis-1,2-Dichloroethene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
2,2-Dichloropropane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Bromochloromethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Chloroform	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,1,1-Trichloroethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,1-Dichloropropene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Carbon tetrachloride	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2-Dichloroethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Benzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Trichloroethene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2-Dichloropropane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Dibromomethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Bromodichloromethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
cis-1,3-Dichloropropene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
4-Methyl-2-pentanone	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Toluene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
trans-1,3-Dichloropropene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,1,2-Trichloroethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,3-Dichloropropane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Tetrachloroethene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
2-Hexanone	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Dibromochloromethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2-Dibromoethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Chlorobenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Ethylbenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
m,p-Xylene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
o-Xylene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Xylene (Total)	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Styrene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Bromoform	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Isopropylbenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,1,2,2-Tetrachloroethane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Bromobenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2,3-Trichloropropane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
n-Propylbenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
2-Chlorotoluene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,3,5-Trimethylbenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
4-Chlorotoluene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
tert-Butylbenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2,4-Trimethylbenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
sec-Butylbenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
4-Isopropyltoluene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,3-Dichlorobenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,4-Dichlorobenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
n-Butylbenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2-Dichlorobenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2-Dibromo-3-chloropropane	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2,4-Trichlorobenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Hexachlorobutadiene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
1,2,3-Trichlorobenzene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Naphthalene	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Diethyl ether	ND		4.6	ug/Kg	1	10/06/2015 13:14	83228
Tetrahydrofuran	ND		9.2	ug/Kg	1	10/06/2015 13:14	83228
Surrogate: Dibromofluoromethane	98.8		76-128	%REC	1	10/06/2015 13:14	83228
Surrogate: 1,2-Dichloroethane-d4	94.4		88-110	%REC	1	10/06/2015 13:14	83228
Surrogate: Toluene-d8	105		85-115	%REC	1	10/06/2015 13:14	83228
Surrogate: Bromofluorobenzene	96.5		85-120	%REC	1	10/06/2015 13:14	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Chloromethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Vinyl chloride	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Bromomethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Chloroethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Trichlorofluoromethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,1-Dichloroethene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Acetone	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Carbon disulfide	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Methylene chloride	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Methyl tert-butyl ether	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,1-Dichloroethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
2-Butanone	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
2,2-Dichloropropane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Bromochloromethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Chloroform	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,1,1-Trichloroethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,1-Dichloropropene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Carbon tetrachloride	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2-Dichloroethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Benzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Trichloroethene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2-Dichloropropane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Dibromomethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Bromodichloromethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
4-Methyl-2-pentanone	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Toluene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,1,2-Trichloroethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,3-Dichloropropane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Tetrachloroethene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
2-Hexanone	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Dibromochloromethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2-Dibromoethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Chlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Ethylbenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
m,p-Xylene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
o-Xylene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Xylene (Total)	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Styrene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Bromoform	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Isopropylbenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Bromobenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2,3-Trichloropropane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
n-Propylbenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
2-Chlorotoluene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
4-Chlorotoluene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
tert-Butylbenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
sec-Butylbenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
4-Isopropyltoluene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,3-Dichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,4-Dichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
n-Butylbenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2-Dichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2-Dibromo-3-chloropropane	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Hexachlorobutadiene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Naphthalene	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Diethyl ether	ND		3.7	ug/Kg	1	10/06/2015 13:40	83228
Tetrahydrofuran	ND		7.3	ug/Kg	1	10/06/2015 13:40	83228
Surrogate: Dibromofluoromethane	99.2		76-128	%REC	1	10/06/2015 13:40	83228
Surrogate: 1,2-Dichloroethane-d4	101		88-110	%REC	1	10/06/2015 13:40	83228
Surrogate: Toluene-d8	104		85-115	%REC	1	10/06/2015 13:40	83228
Surrogate: Bromofluorobenzene	95.7		85-120	%REC	1	10/06/2015 13:40	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507 **Project:** Barrington, RI site
Lab ID: P1467-19 **Collection Date:** 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Chloromethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Vinyl chloride	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Bromomethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Chloroethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Trichlorofluoromethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,1-Dichloroethene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Acetone	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Carbon disulfide	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Methylene chloride	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
trans-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Methyl tert-butyl ether	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,1-Dichloroethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
2-Butanone	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
cis-1,2-Dichloroethene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
2,2-Dichloropropane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Bromochloromethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Chloroform	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,1,1-Trichloroethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,1-Dichloropropene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Carbon tetrachloride	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2-Dichloroethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Benzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Trichloroethene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2-Dichloropropane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Dibromomethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Bromodichloromethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
cis-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
4-Methyl-2-pentanone	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Toluene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
trans-1,3-Dichloropropene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,1,2-Trichloroethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,3-Dichloropropane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Tetrachloroethene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
2-Hexanone	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Dibromochloromethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2-Dibromoethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Chlorobenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507 **Project:** Barrington, RI site
Lab ID: P1467-19 **Collection Date:** 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Ethylbenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
m,p-Xylene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
o-Xylene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Xylene (Total)	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Styrene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Bromoform	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Isopropylbenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,1,2,2-Tetrachloroethane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Bromobenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2,3-Trichloropropane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
n-Propylbenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
2-Chlorotoluene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,3,5-Trimethylbenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
4-Chlorotoluene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
tert-Butylbenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2,4-Trimethylbenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
sec-Butylbenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
4-Isopropyltoluene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,3-Dichlorobenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,4-Dichlorobenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
n-Butylbenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2-Dichlorobenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2-Dibromo-3-chloropropane	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2,4-Trichlorobenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Hexachlorobutadiene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
1,2,3-Trichlorobenzene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Naphthalene	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Diethyl ether	ND		3.9	ug/Kg	1	10/06/2015 14:05	83228
Tetrahydrofuran	ND		7.8	ug/Kg	1	10/06/2015 14:05	83228
Surrogate: Dibromofluoromethane	94.7		76-128	%REC	1	10/06/2015 14:05	83228
Surrogate: 1,2-Dichloroethane-d4	94.9		88-110	%REC	1	10/06/2015 14:05	83228
Surrogate: Toluene-d8	108		85-115	%REC	1	10/06/2015 14:05	83228
Surrogate: Bromofluorobenzene	97.6		85-120	%REC	1	10/06/2015 14:05	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Chloromethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Vinyl chloride	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Bromomethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Chloroethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Trichlorofluoromethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,1-Dichloroethene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Acetone	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Carbon disulfide	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Methylene chloride	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
trans-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Methyl tert-butyl ether	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,1-Dichloroethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
2-Butanone	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
cis-1,2-Dichloroethene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
2,2-Dichloropropane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Bromochloromethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Chloroform	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,1,1-Trichloroethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,1-Dichloropropene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Carbon tetrachloride	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2-Dichloroethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Benzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Trichloroethene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2-Dichloropropane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Dibromomethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Bromodichloromethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
cis-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
4-Methyl-2-pentanone	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Toluene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
trans-1,3-Dichloropropene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,1,2-Trichloroethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,3-Dichloropropane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Tetrachloroethene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
2-Hexanone	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Dibromochloromethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2-Dibromoethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Chlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Ethylbenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
m,p-Xylene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
o-Xylene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Xylene (Total)	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Styrene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Bromoform	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Isopropylbenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,1,2,2-Tetrachloroethane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Bromobenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2,3-Trichloropropane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
n-Propylbenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
2-Chlorotoluene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,3,5-Trimethylbenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
4-Chlorotoluene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
tert-Butylbenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2,4-Trimethylbenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
sec-Butylbenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
4-Isopropyltoluene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,3-Dichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,4-Dichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
n-Butylbenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2-Dichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2-Dibromo-3-chloropropane	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2,4-Trichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Hexachlorobutadiene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
1,2,3-Trichlorobenzene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Naphthalene	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Diethyl ether	ND		3.7	ug/Kg	1	10/06/2015 14:31	83228
Tetrahydrofuran	ND		7.3	ug/Kg	1	10/06/2015 14:31	83228
Surrogate: Dibromofluoromethane	97.8		76-128	%REC	1	10/06/2015 14:31	83228
Surrogate: 1,2-Dichloroethane-d4	98.6		88-110	%REC	1	10/06/2015 14:31	83228
Surrogate: Toluene-d8	106		85-115	%REC	1	10/06/2015 14:31	83228
Surrogate: Bromofluorobenzene	95.7		85-120	%REC	1	10/06/2015 14:31	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01 **Project:** Barrington, RI site
Lab ID: P1467-21 **Collection Date:** 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Chloromethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Vinyl chloride	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Bromomethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Chloroethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Trichlorofluoromethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,1-Dichloroethene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Acetone	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Carbon disulfide	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Methylene chloride	1.6	J	3.5	ug/Kg	1	10/06/2015 14:56	83228
trans-1,2-Dichloroethene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Methyl tert-butyl ether	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,1-Dichloroethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
2-Butanone	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
cis-1,2-Dichloroethene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
2,2-Dichloropropane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Bromochloromethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Chloroform	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,1,1-Trichloroethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,1-Dichloropropene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Carbon tetrachloride	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2-Dichloroethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Benzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Trichloroethene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2-Dichloropropane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Dibromomethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Bromodichloromethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
cis-1,3-Dichloropropene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
4-Methyl-2-pentanone	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Toluene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
trans-1,3-Dichloropropene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,1,2-Trichloroethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,3-Dichloropropane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Tetrachloroethene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
2-Hexanone	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Dibromochloromethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2-Dibromoethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Chlorobenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01 **Project:** Barrington, RI site
Lab ID: P1467-21 **Collection Date:** 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Ethylbenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
m,p-Xylene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
o-Xylene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Xylene (Total)	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Styrene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Bromoform	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Isopropylbenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,1,2,2-Tetrachloroethane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Bromobenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2,3-Trichloropropane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
n-Propylbenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
2-Chlorotoluene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,3,5-Trimethylbenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
4-Chlorotoluene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
tert-Butylbenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2,4-Trimethylbenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
sec-Butylbenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
4-Isopropyltoluene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,3-Dichlorobenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,4-Dichlorobenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
n-Butylbenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2-Dichlorobenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2-Dibromo-3-chloropropane	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2,4-Trichlorobenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Hexachlorobutadiene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
1,2,3-Trichlorobenzene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Naphthalene	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Diethyl ether	ND		3.5	ug/Kg	1	10/06/2015 14:56	83228
Tetrahydrofuran	ND		7.0	ug/Kg	1	10/06/2015 14:56	83228
Surrogate: Dibromofluoromethane	96.8		76-128	%REC	1	10/06/2015 14:56	83228
Surrogate: 1,2-Dichloroethane-d4	104		88-110	%REC	1	10/06/2015 14:56	83228
Surrogate: Toluene-d8	104		85-115	%REC	1	10/06/2015 14:56	83228
Surrogate: Bromofluorobenzene	99.1		85-120	%REC	1	10/06/2015 14:56	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709 **Project:** Barrington, RI site
Lab ID: P1467-22 **Collection Date:** 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Chloromethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Vinyl chloride	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Bromomethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Chloroethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Trichlorofluoromethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,1-Dichloroethene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Acetone	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Carbon disulfide	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Methylene chloride	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
trans-1,2-Dichloroethene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Methyl tert-butyl ether	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,1-Dichloroethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
2-Butanone	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
cis-1,2-Dichloroethene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
2,2-Dichloropropane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Bromochloromethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Chloroform	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,1,1-Trichloroethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,1-Dichloropropene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Carbon tetrachloride	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2-Dichloroethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Benzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Trichloroethene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2-Dichloropropane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Dibromomethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Bromodichloromethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
cis-1,3-Dichloropropene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
4-Methyl-2-pentanone	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Toluene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
trans-1,3-Dichloropropene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,1,2-Trichloroethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,3-Dichloropropane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Tetrachloroethene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
2-Hexanone	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Dibromochloromethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2-Dibromoethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Chlorobenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709 **Project:** Barrington, RI site
Lab ID: P1467-22 **Collection Date:** 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Ethylbenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
m,p-Xylene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
o-Xylene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Xylene (Total)	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Styrene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Bromoform	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Isopropylbenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,1,2,2-Tetrachloroethane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Bromobenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2,3-Trichloropropane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
n-Propylbenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
2-Chlorotoluene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,3,5-Trimethylbenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
4-Chlorotoluene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
tert-Butylbenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2,4-Trimethylbenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
sec-Butylbenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
4-Isopropyltoluene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,3-Dichlorobenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,4-Dichlorobenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
n-Butylbenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2-Dichlorobenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2-Dibromo-3-chloropropane	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2,4-Trichlorobenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Hexachlorobutadiene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
1,2,3-Trichlorobenzene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Naphthalene	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Diethyl ether	ND		4.3	ug/Kg	1	10/06/2015 15:22	83228
Tetrahydrofuran	ND		8.5	ug/Kg	1	10/06/2015 15:22	83228
Surrogate: Dibromofluoromethane	95.5		76-128	%REC	1	10/06/2015 15:22	83228
Surrogate: 1,2-Dichloroethane-d4	94.6		88-110	%REC	1	10/06/2015 15:22	83228
Surrogate: Toluene-d8	113		85-115	%REC	1	10/06/2015 15:22	83228
Surrogate: Bromofluorobenzene	97.0		85-120	%REC	1	10/06/2015 15:22	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK-03 **Project:** Barrington, RI site
Lab ID: P1467-23 **Collection Date:** 09/30/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
Dichlorodifluoromethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Chloromethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Vinyl chloride	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Bromomethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Chloroethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Trichlorofluoromethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,1-Dichloroethene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Acetone	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Carbon disulfide	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Methylene chloride	18		5.0	ug/Kg	1	10/06/2015 11:07	83228
trans-1,2-Dichloroethene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Methyl tert-butyl ether	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,1-Dichloroethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
2-Butanone	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
cis-1,2-Dichloroethene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
2,2-Dichloropropane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Bromochloromethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Chloroform	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,1,1-Trichloroethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,1-Dichloropropene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Carbon tetrachloride	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2-Dichloroethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Benzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Trichloroethene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2-Dichloropropane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Dibromomethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Bromodichloromethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
cis-1,3-Dichloropropene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
4-Methyl-2-pentanone	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Toluene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
trans-1,3-Dichloropropene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,1,2-Trichloroethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,3-Dichloropropane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Tetrachloroethene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
2-Hexanone	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Dibromochloromethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2-Dibromoethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Chlorobenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: TRIP BLANK-03 **Project:** Barrington, RI site
Lab ID: P1467-23 **Collection Date:** 09/30/15 16:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8260C -- VOC by GC-MS							**SW8260_LOW_S**
1,1,1,2-Tetrachloroethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Ethylbenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
m,p-Xylene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
o-Xylene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Xylene (Total)	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Styrene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Bromoform	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Isopropylbenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,1,2,2-Tetrachloroethane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Bromobenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2,3-Trichloropropane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
n-Propylbenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
2-Chlorotoluene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,3,5-Trimethylbenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
4-Chlorotoluene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
tert-Butylbenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2,4-Trimethylbenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
sec-Butylbenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
4-Isopropyltoluene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,3-Dichlorobenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,4-Dichlorobenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
n-Butylbenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2-Dichlorobenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2-Dibromo-3-chloropropane	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2,4-Trichlorobenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Hexachlorobutadiene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
1,2,3-Trichlorobenzene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Naphthalene	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Diethyl ether	ND		5.0	ug/Kg	1	10/06/2015 11:07	83228
Tetrahydrofuran	ND		10	ug/Kg	1	10/06/2015 11:07	83228
Surrogate: Dibromofluoromethane	93.6		76-128	%REC	1	10/06/2015 11:07	83228
Surrogate: 1,2-Dichloroethane-d4	92.6		88-110	%REC	1	10/06/2015 11:07	83228
Surrogate: Toluene-d8	107		85-115	%REC	1	10/06/2015 11:07	83228
Surrogate: Bromofluorobenzene	97.7		85-120	%REC	1	10/06/2015 11:07	83228

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83214** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**

Client ID: **MB-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 10:08** SeqNo: **2312948**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.98	5.0									
Chloromethane	ND	0.80	5.0									
Vinyl chloride	ND	0.63	5.0									
Bromomethane	ND	1.1	5.0									
Chloroethane	ND	1.0	5.0									
Trichlorofluoromethane	ND	0.42	5.0									
1,1-Dichloroethene	ND	0.95	5.0									
Acetone	ND	1.6	5.0									
Carbon disulfide	ND	0.30	5.0									
Methylene chloride	ND	1.3	5.0									
trans-1,2-Dichloroethene	ND	0.53	5.0									
Methyl tert-butyl ether	ND	0.61	5.0									
1,1-Dichloroethane	ND	0.67	5.0									
2-Butanone	ND	2.0	5.0									
cis-1,2-Dichloroethene	ND	0.75	5.0									
2,2-Dichloropropane	ND	0.29	5.0									
Bromochloromethane	ND	0.76	5.0									
Chloroform	ND	0.64	5.0									
1,1,1-Trichloroethane	ND	0.53	5.0									
1,1-Dichloropropene	ND	0.81	5.0									
Carbon tetrachloride	ND	0.33	5.0									
1,2-Dichloroethane	ND	0.54	5.0									
Benzene	ND	0.61	5.0									
Trichloroethene	ND	0.62	5.0									
1,2-Dichloropropane	ND	0.69	5.0									
Dibromomethane	ND	0.58	5.0									
Bromodichloromethane	ND	0.97	5.0									
cis-1,3-Dichloropropene	ND	0.67	5.0									
4-Methyl-2-pentanone	ND	0.73	5.0									
Toluene	ND	0.47	5.0									
trans-1,3-Dichloropropene	ND	0.68	5.0									
1,1,2-Trichloroethane	ND	0.48	5.0									
1,3-Dichloropropane	ND	0.87	5.0									
Tetrachloroethene	ND	0.62	5.0									
2-Hexanone	ND	0.83	5.0									
Dibromochloromethane	ND	0.65	5.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83214** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **MB-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 10:08** SeqNo: **2312948**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dibromoethane	ND	0.74	5.0									
Chlorobenzene	ND	0.51	5.0									
1,1,1,2-Tetrachloroethane	ND	0.77	5.0									
Ethylbenzene	ND	0.50	5.0									
m,p-Xylene	ND	1.6	5.0									
o-Xylene	ND	0.47	5.0									
Xylene (Total)	ND	0.47	5.0									
Styrene	ND	0.52	5.0									
Bromoform	ND	2.0	5.0									
Isopropylbenzene	ND	0.58	5.0									
1,1,2,2-Tetrachloroethane	ND	0.68	5.0									
Bromobenzene	ND	0.58	5.0									
1,2,3-Trichloropropane	ND	0.87	5.0									
n-Propylbenzene	ND	0.44	5.0									
2-Chlorotoluene	ND	0.74	5.0									
1,3,5-Trimethylbenzene	ND	0.61	5.0									
4-Chlorotoluene	ND	0.84	5.0									
tert-Butylbenzene	ND	0.52	5.0									
1,2,4-Trimethylbenzene	ND	0.57	5.0									
sec-Butylbenzene	ND	0.62	5.0									
4-Isopropyltoluene	ND	0.71	5.0									
1,3-Dichlorobenzene	ND	0.70	5.0									
1,4-Dichlorobenzene	ND	0.80	5.0									
n-Butylbenzene	ND	0.67	5.0									
1,2-Dichlorobenzene	ND	0.62	5.0									
1,2-Dibromo-3-chloropropane	ND	1.3	5.0									
1,2,4-Trichlorobenzene	ND	0.63	5.0									
Hexachlorobutadiene	ND	0.62	5.0									
1,2,3-Trichlorobenzene	ND	0.64	5.0									
Naphthalene	ND	0.78	5.0									
Diethyl ether	ND	1.3	5.0									
Tetrahydrofuran	ND	4.6	10									
Surrogate: Dibromofluoromethane	48.01		5.0	50.00	0	96.0	76	128		0		
Surrogate: 1,2-Dichloroethane-d4	44.76		5.0	50.00	0	89.5	88	110		0		
Surrogate: Toluene-d8	53.13		5.0	50.00	0	106	85	115		0		

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83214** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **MB-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 10:08** SeqNo: **2312948**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Bromofluorobenzene	48.14		5.0	50.00	0	96.3	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83228** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**
Client ID: **MB-83228** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 10:42** SeqNo: **2314324**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	ND	0.98	5.0									
Chloromethane	ND	0.80	5.0									
Vinyl chloride	ND	0.63	5.0									
Bromomethane	ND	1.1	5.0									
Chloroethane	ND	1.0	5.0									
Trichlorofluoromethane	ND	0.42	5.0									
1,1-Dichloroethene	ND	0.95	5.0									
Acetone	ND	1.6	5.0									
Carbon disulfide	ND	0.30	5.0									
Methylene chloride	ND	1.3	5.0									
trans-1,2-Dichloroethene	ND	0.53	5.0									
Methyl tert-butyl ether	ND	0.61	5.0									
1,1-Dichloroethane	ND	0.67	5.0									
2-Butanone	ND	2.0	5.0									
cis-1,2-Dichloroethene	ND	0.75	5.0									
2,2-Dichloropropane	ND	0.29	5.0									
Bromochloromethane	ND	0.76	5.0									
Chloroform	ND	0.64	5.0									
1,1,1-Trichloroethane	ND	0.53	5.0									
1,1-Dichloropropene	ND	0.81	5.0									
Carbon tetrachloride	ND	0.33	5.0									
1,2-Dichloroethane	ND	0.54	5.0									
Benzene	ND	0.61	5.0									
Trichloroethene	ND	0.62	5.0									
1,2-Dichloropropane	ND	0.69	5.0									
Dibromomethane	ND	0.58	5.0									
Bromodichloromethane	ND	0.97	5.0									
cis-1,3-Dichloropropene	ND	0.67	5.0									
4-Methyl-2-pentanone	ND	0.73	5.0									
Toluene	ND	0.47	5.0									
trans-1,3-Dichloropropene	ND	0.68	5.0									
1,1,2-Trichloroethane	ND	0.48	5.0									
1,3-Dichloropropane	ND	0.87	5.0									
Tetrachloroethene	ND	0.62	5.0									
2-Hexanone	ND	0.83	5.0									
Dibromochloromethane	ND	0.65	5.0									
1,2-Dibromoethane	ND	0.74	5.0									
Chlorobenzene	ND	0.51	5.0									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **MB-83228** SampType: **MBLK** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**
Client ID: **MB-83228** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 10:42** SeqNo: **2314324**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	0.77	5.0									
Ethylbenzene	ND	0.50	5.0									
m,p-Xylene	ND	1.6	5.0									
o-Xylene	ND	0.47	5.0									
Xylene (Total)	ND	0.47	5.0									
Styrene	ND	0.52	5.0									
Bromoform	ND	2.0	5.0									
Isopropylbenzene	ND	0.58	5.0									
1,1,2,2-Tetrachloroethane	ND	0.68	5.0									
Bromobenzene	ND	0.58	5.0									
1,2,3-Trichloropropane	ND	0.87	5.0									
n-Propylbenzene	ND	0.44	5.0									
2-Chlorotoluene	ND	0.74	5.0									
1,3,5-Trimethylbenzene	ND	0.61	5.0									
4-Chlorotoluene	ND	0.84	5.0									
tert-Butylbenzene	ND	0.52	5.0									
1,2,4-Trimethylbenzene	ND	0.57	5.0									
sec-Butylbenzene	ND	0.62	5.0									
4-Isopropyltoluene	ND	0.71	5.0									
1,3-Dichlorobenzene	ND	0.70	5.0									
1,4-Dichlorobenzene	ND	0.80	5.0									
n-Butylbenzene	ND	0.67	5.0									
1,2-Dichlorobenzene	ND	0.62	5.0									
1,2-Dibromo-3-chloropropane	ND	1.3	5.0									
1,2,4-Trichlorobenzene	ND	0.63	5.0									
Hexachlorobutadiene	ND	0.62	5.0									
1,2,3-Trichlorobenzene	ND	0.64	5.0									
Naphthalene	ND	0.78	5.0									
Diethyl ether	ND	1.3	5.0									
Tetrahydrofuran	ND	4.6	10									
Surrogate: Dibromofluoromethane	46.10		5.0	50.00	0	92.2	76	128		0		
Surrogate: 1,2-Dichloroethane-d4	45.12		5.0	50.00	0	90.2	88	110		0		
Surrogate: Toluene-d8	53.63		5.0	50.00	0	107	85	115		0		
Surrogate: Bromofluorobenzene	49.06		5.0	50.00	0	98.1	85	120		0		

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83214** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 8:05** Run ID: **V1_151005A**
Client ID: **LCS-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 8:52** SeqNo: **2312946**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	44.12	0.98	5.0	50.00	0	88.2	35	135	0			
Chloromethane	45.63	0.80	5.0	50.00	0	91.3	50	130	0			
Vinyl chloride	46.81	0.63	5.0	50.00	0	93.6	60	125	0			
Bromomethane	38.46	1.1	5.0	50.00	0	76.9	30	160	0			
Chloroethane	46.73	1.0	5.0	50.00	0	93.5	40	155	0			
Trichlorofluoromethane	49.78	0.42	5.0	50.00	0	99.6	25	185	0			
1,1-Dichloroethene	49.29	0.95	5.0	50.00	0	98.6	65	135	0			
Acetone	40.51	1.6	5.0	50.00	0	81.0	20	160	0			
Carbon disulfide	48.17	0.30	5.0	50.00	0	96.3	45	160	0			
Methylene chloride	46.69	1.3	5.0	50.00	0	93.4	55	140	0			
trans-1,2-Dichloroethene	49.81	0.53	5.0	50.00	0	99.6	65	135	0			
Methyl tert-butyl ether	44.11	0.61	5.0	50.00	0	88.2	75	126	0			
1,1-Dichloroethane	48.53	0.67	5.0	50.00	0	97.1	75	125	0			
2-Butanone	45.10	2.0	5.0	50.00	0	90.2	30	160	0			
cis-1,2-Dichloroethene	48.90	0.75	5.0	50.00	0	97.8	65	125	0			
2,2-Dichloropropane	46.37	0.29	5.0	50.00	0	92.7	65	135	0			
Bromochloromethane	47.76	0.76	5.0	50.00	0	95.5	70	125	0			
Chloroform	48.07	0.64	5.0	50.00	0	96.1	70	125	0			
1,1,1-Trichloroethane	47.26	0.53	5.0	50.00	0	94.5	70	135	0			
1,1-Dichloropropene	47.80	0.81	5.0	50.00	0	95.6	70	135	0			
Carbon tetrachloride	47.60	0.33	5.0	50.00	0	95.2	65	135	0			
1,2-Dichloroethane	43.94	0.54	5.0	50.00	0	87.9	70	135	0			
Benzene	47.25	0.61	5.0	50.00	0	94.5	75	125	0			
Trichloroethene	45.22	0.62	5.0	50.00	0	90.4	75	125	0			
1,2-Dichloropropane	47.56	0.69	5.0	50.00	0	95.1	70	120	0			
Dibromomethane	42.93	0.58	5.0	50.00	0	85.9	75	130	0			
Bromodichloromethane	45.45	0.97	5.0	50.00	0	90.9	70	130	0			
cis-1,3-Dichloropropene	46.47	0.67	5.0	50.00	0	92.9	70	125	0			
4-Methyl-2-pentanone	42.71	0.73	5.0	50.00	0	85.4	45	145	0			
Toluene	47.34	0.47	5.0	50.00	0	94.7	70	125	0			
trans-1,3-Dichloropropene	45.65	0.68	5.0	50.00	0	91.3	65	125	0			
1,1,2-Trichloroethane	44.85	0.48	5.0	50.00	0	89.7	60	125	0			
1,3-Dichloropropane	51.28	0.87	5.0	50.00	0	103	75	125	0			
Tetrachloroethene	55.99	0.62	5.0	50.00	0	112	65	140	0			
2-Hexanone	48.17	0.83	5.0	50.00	0	96.3	45	145	0			
Dibromochloromethane	52.01	0.65	5.0	50.00	0	104	65	130	0			
1,2-Dibromoethane	50.66	0.74	5.0	50.00	0	101	70	125	0			
Chlorobenzene	52.47	0.51	5.0	50.00	0	105	75	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83214** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 8:05** Run ID: **V1_151005A**

Client ID: **LCS-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 8:52** SeqNo: **2312946**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	50.81	0.77	5.0	50.00	0	102	75	125	0			
Ethylbenzene	53.84	0.50	5.0	50.00	0	108	75	125	0			
m,p-Xylene	110.4	1.6	5.0	100.0	0	110	80	125	0			
o-Xylene	54.35	0.47	5.0	50.00	0	109	75	125	0			
Xylene (Total)	164.8	0.47	5.0	150.0	0	110	83	125	0			
Styrene	53.50	0.52	5.0	50.00	0	107	75	125	0			
Bromoform	50.39	2.0	5.0	50.00	0	101	55	135	0			
Isopropylbenzene	54.81	0.58	5.0	50.00	0	110	75	130	0			
1,1,2,2-Tetrachloroethane	52.49	0.68	5.0	50.00	0	105	55	130	0			
Bromobenzene	54.04	0.58	5.0	50.00	0	108	65	120	0			
1,2,3-Trichloropropane	51.25	0.87	5.0	50.00	0	102	65	130	0			
n-Propylbenzene	55.02	0.44	5.0	50.00	0	110	65	135	0			
2-Chlorotoluene	55.74	0.74	5.0	50.00	0	111	70	130	0			
1,3,5-Trimethylbenzene	55.45	0.61	5.0	50.00	0	111	65	135	0			
4-Chlorotoluene	55.57	0.84	5.0	50.00	0	111	75	125	0			
tert-Butylbenzene	55.07	0.52	5.0	50.00	0	110	65	130	0			
1,2,4-Trimethylbenzene	55.55	0.57	5.0	50.00	0	111	65	135	0			
sec-Butylbenzene	55.52	0.62	5.0	50.00	0	111	65	130	0			
4-Isopropyltoluene	56.37	0.71	5.0	50.00	0	113	75	135	0			
1,3-Dichlorobenzene	55.41	0.70	5.0	50.00	0	111	70	125	0			
1,4-Dichlorobenzene	54.05	0.80	5.0	50.00	0	108	70	125	0			
n-Butylbenzene	54.52	0.67	5.0	50.00	0	109	65	140	0			
1,2-Dichlorobenzene	53.69	0.62	5.0	50.00	0	107	75	120	0			
1,2-Dibromo-3-chloropropane	50.41	1.3	5.0	50.00	0	101	40	135	0			
1,2,4-Trichlorobenzene	51.20	0.63	5.0	50.00	0	102	65	130	0			
Hexachlorobutadiene	52.59	0.62	5.0	50.00	0	105	55	140	0			
1,2,3-Trichlorobenzene	51.92	0.64	5.0	50.00	0	104	60	135	0			
Naphthalene	48.98	0.78	5.0	50.00	0	98.0	40	125	0			
Diethyl ether	46.54	1.3	5.0	50.00	0	93.1	70	130	0			
Tetrahydrofuran	88.77	4.6	10	100.0	0	88.8	70	130	0			
Surrogate: Dibromofluoromethane	47.15		5.0	50.00	0	94.3	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	48.79		5.0	50.00	0	97.6	88	110	0			
Surrogate: Toluene-d8	53.18		5.0	50.00	0	106	85	115	0			
Surrogate: Bromofluorobenzene	48.35		5.0	50.00	0	96.7	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83228** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**
Client ID: **LCS-83228** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 9:26** SeqNo: **2314322**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	40.76	0.98	5.0	50.00	0	81.5	35	135	0			
Chloromethane	43.61	0.80	5.0	50.00	0	87.2	50	130	0			
Vinyl chloride	45.72	0.63	5.0	50.00	0	91.4	60	125	0			
Bromomethane	41.79	1.1	5.0	50.00	0	83.6	30	160	0			
Chloroethane	43.33	1.0	5.0	50.00	0	86.7	40	155	0			
Trichlorofluoromethane	45.97	0.42	5.0	50.00	0	91.9	25	185	0			
1,1-Dichloroethene	46.28	0.95	5.0	50.00	0	92.6	65	135	0			
Acetone	42.84	1.6	5.0	50.00	0	85.7	20	160	0			
Carbon disulfide	44.60	0.30	5.0	50.00	0	89.2	45	160	0			
Methylene chloride	47.39	1.3	5.0	50.00	0	94.8	55	140	0			
trans-1,2-Dichloroethene	46.73	0.53	5.0	50.00	0	93.5	65	135	0			
Methyl tert-butyl ether	46.30	0.61	5.0	50.00	0	92.6	75	126	0			
1,1-Dichloroethane	48.15	0.67	5.0	50.00	0	96.3	75	125	0			
2-Butanone	44.57	2.0	5.0	50.00	0	89.1	30	160	0			
cis-1,2-Dichloroethene	49.50	0.75	5.0	50.00	0	99.0	65	125	0			
2,2-Dichloropropane	45.16	0.29	5.0	50.00	0	90.3	65	135	0			
Bromochloromethane	48.48	0.76	5.0	50.00	0	97.0	70	125	0			
Chloroform	47.30	0.64	5.0	50.00	0	94.6	70	125	0			
1,1,1-Trichloroethane	45.93	0.53	5.0	50.00	0	91.9	70	135	0			
1,1-Dichloropropene	43.45	0.81	5.0	50.00	0	86.9	70	135	0			
Carbon tetrachloride	47.75	0.33	5.0	50.00	0	95.5	65	135	0			
1,2-Dichloroethane	45.29	0.54	5.0	50.00	0	90.6	70	135	0			
Benzene	46.11	0.61	5.0	50.00	0	92.2	75	125	0			
Trichloroethene	41.40	0.62	5.0	50.00	0	82.8	75	125	0			
1,2-Dichloropropane	45.67	0.69	5.0	50.00	0	91.3	70	120	0			
Dibromomethane	46.85	0.58	5.0	50.00	0	93.7	75	130	0			
Bromodichloromethane	44.57	0.97	5.0	50.00	0	89.1	70	130	0			
cis-1,3-Dichloropropene	46.33	0.67	5.0	50.00	0	92.7	70	125	0			
4-Methyl-2-pentanone	44.77	0.73	5.0	50.00	0	89.5	45	145	0			
Toluene	45.75	0.47	5.0	50.00	0	91.5	70	125	0			
trans-1,3-Dichloropropene	46.36	0.68	5.0	50.00	0	92.7	65	125	0			
1,1,2-Trichloroethane	47.85	0.48	5.0	50.00	0	95.7	60	125	0			
1,3-Dichloropropane	53.87	0.87	5.0	50.00	0	108	75	125	0			
Tetrachloroethene	52.60	0.62	5.0	50.00	0	105	65	140	0			
2-Hexanone	49.64	0.83	5.0	50.00	0	99.3	45	145	0			
Dibromochloromethane	54.10	0.65	5.0	50.00	0	108	65	130	0			
1,2-Dibromoethane	52.33	0.74	5.0	50.00	0	105	70	125	0			
Chlorobenzene	53.70	0.51	5.0	50.00	0	107	75	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCS-83228** SampType: **LCS** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**

Client ID: **LCS-83228** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 9:26** SeqNo: **2314322**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	53.92	0.77	5.0	50.00	0	108	75	125	0			
Ethylbenzene	54.19	0.50	5.0	50.00	0	108	75	125	0			
m,p-Xylene	109.1	1.6	5.0	100.0	0	109	80	125	0			
o-Xylene	55.77	0.47	5.0	50.00	0	112	75	125	0			
Xylene (Total)	164.8	0.47	5.0	150.0	0	110	83	125	0			
Styrene	53.55	0.52	5.0	50.00	0	107	75	125	0			
Bromoform	53.60	2.0	5.0	50.00	0	107	55	135	0			
Isopropylbenzene	52.62	0.58	5.0	50.00	0	105	75	130	0			
1,1,2,2-Tetrachloroethane	54.26	0.68	5.0	50.00	0	109	55	130	0			
Bromobenzene	56.64	0.58	5.0	50.00	0	113	65	120	0			
1,2,3-Trichloropropane	53.08	0.87	5.0	50.00	0	106	65	130	0			
n-Propylbenzene	54.14	0.44	5.0	50.00	0	108	65	135	0			
2-Chlorotoluene	55.25	0.74	5.0	50.00	0	110	70	130	0			
1,3,5-Trimethylbenzene	54.96	0.61	5.0	50.00	0	110	65	135	0			
4-Chlorotoluene	57.19	0.84	5.0	50.00	0	114	75	125	0			
tert-Butylbenzene	54.76	0.52	5.0	50.00	0	110	65	130	0			
1,2,4-Trimethylbenzene	54.91	0.57	5.0	50.00	0	110	65	135	0			
sec-Butylbenzene	54.16	0.62	5.0	50.00	0	108	65	130	0			
4-Isopropyltoluene	55.04	0.71	5.0	50.00	0	110	75	135	0			
1,3-Dichlorobenzene	53.58	0.70	5.0	50.00	0	107	70	125	0			
1,4-Dichlorobenzene	55.24	0.80	5.0	50.00	0	110	70	125	0			
n-Butylbenzene	52.94	0.67	5.0	50.00	0	106	65	140	0			
1,2-Dichlorobenzene	53.59	0.62	5.0	50.00	0	107	75	120	0			
1,2-Dibromo-3-chloropropane	50.54	1.3	5.0	50.00	0	101	40	135	0			
1,2,4-Trichlorobenzene	54.02	0.63	5.0	50.00	0	108	65	130	0			
Hexachlorobutadiene	52.36	0.62	5.0	50.00	0	105	55	140	0			
1,2,3-Trichlorobenzene	52.06	0.64	5.0	50.00	0	104	60	135	0			
Naphthalene	50.32	0.78	5.0	50.00	0	101	40	125	0			
Diethyl ether	47.08	1.3	5.0	50.00	0	94.2	70	130	0			
Tetrahydrofuran	89.99	4.6	10	100.0	0	90.0	70	130	0			
Surrogate: Dibromofluoromethane	45.82		5.0	50.00	0	91.6	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	45.21		5.0	50.00	0	90.4	88	110	0			
Surrogate: Toluene-d8	52.42		5.0	50.00	0	105	85	115	0			
Surrogate: Bromofluorobenzene	49.67		5.0	50.00	0	99.3	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83214** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**

Client ID: **LCSD-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 9:18** SeqNo: **2312947**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	42.07	0.98	5.0	50.00	0	84.1	35	135	44.12	4.76	40	
Chloromethane	38.71	0.80	5.0	50.00	0	77.4	50	130	45.63	16.4	40	
Vinyl chloride	45.42	0.63	5.0	50.00	0	90.8	60	125	46.81	3.02	40	
Bromomethane	41.59	1.1	5.0	50.00	0	83.2	30	160	38.46	7.81	40	
Chloroethane	43.65	1.0	5.0	50.00	0	87.3	40	155	46.73	6.81	40	
Trichlorofluoromethane	45.74	0.42	5.0	50.00	0	91.5	25	185	49.78	8.45	40	
1,1-Dichloroethene	44.43	0.95	5.0	50.00	0	88.9	65	135	49.29	10.4	40	
Acetone	35.99	1.6	5.0	50.00	0	72.0	20	160	40.51	11.8	40	
Carbon disulfide	43.24	0.30	5.0	50.00	0	86.5	45	160	48.17	10.8	40	
Methylene chloride	43.96	1.3	5.0	50.00	0	87.9	55	140	46.69	6.03	40	
trans-1,2-Dichloroethene	42.34	0.53	5.0	50.00	0	84.7	65	135	49.81	16.2	40	
Methyl tert-butyl ether	40.25	0.61	5.0	50.00	0	80.5	75	126	44.11	9.16	40	
1,1-Dichloroethane	43.96	0.67	5.0	50.00	0	87.9	75	125	48.53	9.9	40	
2-Butanone	40.19	2.0	5.0	50.00	0	80.4	30	160	45.10	11.5	40	
cis-1,2-Dichloroethene	43.97	0.75	5.0	50.00	0	87.9	65	125	48.90	10.6	40	
2,2-Dichloropropane	43.15	0.29	5.0	50.00	0	86.3	65	135	46.37	7.19	40	
Bromochloromethane	44.77	0.76	5.0	50.00	0	89.5	70	125	47.76	6.47	40	
Chloroform	44.75	0.64	5.0	50.00	0	89.5	70	125	48.07	7.15	40	
1,1,1-Trichloroethane	42.99	0.53	5.0	50.00	0	86.0	70	135	47.26	9.47	40	
1,1-Dichloropropene	42.20	0.81	5.0	50.00	0	84.4	70	135	47.80	12.4	40	
Carbon tetrachloride	44.42	0.33	5.0	50.00	0	88.8	65	135	47.60	6.91	40	
1,2-Dichloroethane	41.45	0.54	5.0	50.00	0	82.9	70	135	43.94	5.83	40	
Benzene	43.73	0.61	5.0	50.00	0	87.5	75	125	47.25	7.74	40	
Trichloroethene	40.75	0.62	5.0	50.00	0	81.5	75	125	45.22	10.4	40	
1,2-Dichloropropane	43.54	0.69	5.0	50.00	0	87.1	70	120	47.56	8.82	40	
Dibromomethane	41.26	0.58	5.0	50.00	0	82.5	75	130	42.93	3.96	40	
Bromodichloromethane	43.19	0.97	5.0	50.00	0	86.4	70	130	45.45	5.1	40	
cis-1,3-Dichloropropene	43.01	0.67	5.0	50.00	0	86.0	70	125	46.47	7.74	40	
4-Methyl-2-pentanone	39.57	0.73	5.0	50.00	0	79.1	45	145	42.71	7.63	40	
Toluene	44.12	0.47	5.0	50.00	0	88.2	70	125	47.34	7.04	40	
trans-1,3-Dichloropropene	42.24	0.68	5.0	50.00	0	84.5	65	125	45.65	7.75	40	
1,1,2-Trichloroethane	40.25	0.48	5.0	50.00	0	80.5	60	125	44.85	10.8	40	
1,3-Dichloropropane	49.52	0.87	5.0	50.00	0	99.0	75	125	51.28	3.48	40	
Tetrachloroethene	53.06	0.62	5.0	50.00	0	106	65	140	55.99	5.36	40	
2-Hexanone	44.38	0.83	5.0	50.00	0	88.8	45	145	48.17	8.18	40	
Dibromochloromethane	51.03	0.65	5.0	50.00	0	102	65	130	52.01	1.9	40	
1,2-Dibromoethane	48.62	0.74	5.0	50.00	0	97.2	70	125	50.66	4.11	40	
Chlorobenzene	50.67	0.51	5.0	50.00	0	101	75	125	52.47	3.49	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83214** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**

Client ID: **LCSD-83214** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 9:18** SeqNo: **2312947**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	50.97	0.77	5.0	50.00	0	102	75	125	50.81	0.30	40	
Ethylbenzene	50.19	0.50	5.0	50.00	0	100	75	125	53.84	7.03	40	
m,p-Xylene	102.3	1.6	5.0	100.0	0	102	80	125	110.4	7.61	40	
o-Xylene	50.79	0.47	5.0	50.00	0	102	75	125	54.35	6.78	40	
Xylene (Total)	153.1	0.47	5.0	150.0	0	102	83	125	164.8	7.33	40	
Styrene	49.02	0.52	5.0	50.00	0	98.0	75	125	53.50	8.73	40	
Bromoform	48.49	2.0	5.0	50.00	0	97.0	55	135	50.39	3.84	40	
Isopropylbenzene	49.96	0.58	5.0	50.00	0	99.9	75	130	54.81	9.24	40	
1,1,2,2-Tetrachloroethane	48.36	0.68	5.0	50.00	0	96.7	55	130	52.49	8.19	40	
Bromobenzene	53.09	0.58	5.0	50.00	0	106	65	120	54.04	1.79	40	
1,2,3-Trichloropropane	49.70	0.87	5.0	50.00	0	99.4	65	130	51.25	3.08	40	
n-Propylbenzene	52.50	0.44	5.0	50.00	0	105	65	135	55.02	4.69	40	
2-Chlorotoluene	52.88	0.74	5.0	50.00	0	106	70	130	55.74	5.26	40	
1,3,5-Trimethylbenzene	51.54	0.61	5.0	50.00	0	103	65	135	55.45	7.32	40	
4-Chlorotoluene	53.91	0.84	5.0	50.00	0	108	75	125	55.57	3.03	40	
tert-Butylbenzene	51.70	0.52	5.0	50.00	0	103	65	130	55.07	6.32	40	
1,2,4-Trimethylbenzene	52.52	0.57	5.0	50.00	0	105	65	135	55.55	5.6	40	
sec-Butylbenzene	51.41	0.62	5.0	50.00	0	103	65	130	55.52	7.68	40	
4-Isopropyltoluene	51.93	0.71	5.0	50.00	0	104	75	135	56.37	8.19	40	
1,3-Dichlorobenzene	52.79	0.70	5.0	50.00	0	106	70	125	55.41	4.85	40	
1,4-Dichlorobenzene	52.73	0.80	5.0	50.00	0	105	70	125	54.05	2.46	40	
n-Butylbenzene	51.20	0.67	5.0	50.00	0	102	65	140	54.52	6.29	40	
1,2-Dichlorobenzene	51.37	0.62	5.0	50.00	0	103	75	120	53.69	4.41	40	
1,2-Dibromo-3-chloropropane	48.89	1.3	5.0	50.00	0	97.8	40	135	50.41	3.07	40	
1,2,4-Trichlorobenzene	49.50	0.63	5.0	50.00	0	99.0	65	130	51.20	3.39	40	
Hexachlorobutadiene	49.23	0.62	5.0	50.00	0	98.5	55	140	52.59	6.59	40	
1,2,3-Trichlorobenzene	49.23	0.64	5.0	50.00	0	98.5	60	135	51.92	5.31	40	
Naphthalene	47.60	0.78	5.0	50.00	0	95.2	40	125	48.98	2.85	40	
Diethyl ether	45.16	1.3	5.0	50.00	0	90.3	70	130	46.54	3.02	40	
Tetrahydrofuran	81.40	4.6	10	100.0	0	81.4	70	130	88.77	8.67	40	
Surrogate: Dibromofluoromethane	46.26		5.0	50.00	0	92.5	76	128	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	44.42		5.0	50.00	0	88.8	88	110	0	0	40	
Surrogate: Toluene-d8	54.44		5.0	50.00	0	109	85	115	0	0	40	
Surrogate: Bromofluorobenzene	49.66		5.0	50.00	0	99.3	85	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83228** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**
Client ID: **LCSD-83228** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 9:52** SeqNo: **2314323**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	38.63	0.98	5.0	50.00	0	77.3	35	135	40.76	5.37	40	
Chloromethane	42.68	0.80	5.0	50.00	0	85.4	50	130	43.61	2.15	40	
Vinyl chloride	44.84	0.63	5.0	50.00	0	89.7	60	125	45.72	1.93	40	
Bromomethane	41.32	1.1	5.0	50.00	0	82.6	30	160	41.79	1.14	40	
Chloroethane	42.80	1.0	5.0	50.00	0	85.6	40	155	43.33	1.23	40	
Trichlorofluoromethane	43.95	0.42	5.0	50.00	0	87.9	25	185	45.97	4.49	40	
1,1-Dichloroethene	41.69	0.95	5.0	50.00	0	83.4	65	135	46.28	10.4	40	
Acetone	45.57	1.6	5.0	50.00	0	91.1	20	160	42.84	6.19	40	
Carbon disulfide	43.05	0.30	5.0	50.00	0	86.1	45	160	44.60	3.53	40	
Methylene chloride	45.63	1.3	5.0	50.00	0	91.3	55	140	47.39	3.78	40	
trans-1,2-Dichloroethene	43.73	0.53	5.0	50.00	0	87.5	65	135	46.73	6.63	40	
Methyl tert-butyl ether	45.77	0.61	5.0	50.00	0	91.5	75	126	46.30	1.16	40	
1,1-Dichloroethane	41.98	0.67	5.0	50.00	0	84.0	75	125	48.15	13.7	40	
2-Butanone	42.87	2.0	5.0	50.00	0	85.7	30	160	44.57	3.91	40	
cis-1,2-Dichloroethene	45.71	0.75	5.0	50.00	0	91.4	65	125	49.50	7.96	40	
2,2-Dichloropropane	42.80	0.29	5.0	50.00	0	85.6	65	135	45.16	5.37	40	
Bromochloromethane	48.36	0.76	5.0	50.00	0	96.7	70	125	48.48	0.242	40	
Chloroform	45.94	0.64	5.0	50.00	0	91.9	70	125	47.30	2.92	40	
1,1,1-Trichloroethane	44.95	0.53	5.0	50.00	0	89.9	70	135	45.93	2.16	40	
1,1-Dichloropropene	41.03	0.81	5.0	50.00	0	82.1	70	135	43.45	5.71	40	
Carbon tetrachloride	43.20	0.33	5.0	50.00	0	86.4	65	135	47.75	10	40	
1,2-Dichloroethane	46.51	0.54	5.0	50.00	0	93.0	70	135	45.29	2.66	40	
Benzene	43.89	0.61	5.0	50.00	0	87.8	75	125	46.11	4.93	40	
Trichloroethene	38.78	0.62	5.0	50.00	0	77.6	75	125	41.40	6.52	40	
1,2-Dichloropropane	44.48	0.69	5.0	50.00	0	89.0	70	120	45.67	2.65	40	
Dibromomethane	46.35	0.58	5.0	50.00	0	92.7	75	130	46.85	1.06	40	
Bromodichloromethane	44.93	0.97	5.0	50.00	0	89.9	70	130	44.57	0.799	40	
cis-1,3-Dichloropropene	45.75	0.67	5.0	50.00	0	91.5	70	125	46.33	1.27	40	
4-Methyl-2-pentanone	46.88	0.73	5.0	50.00	0	93.8	45	145	44.77	4.62	40	
Toluene	44.31	0.47	5.0	50.00	0	88.6	70	125	45.75	3.21	40	
trans-1,3-Dichloropropene	45.63	0.68	5.0	50.00	0	91.3	65	125	46.36	1.59	40	
1,1,2-Trichloroethane	46.87	0.48	5.0	50.00	0	93.7	60	125	47.85	2.07	40	
1,3-Dichloropropane	51.89	0.87	5.0	50.00	0	104	75	125	53.87	3.75	40	
Tetrachloroethene	47.30	0.62	5.0	50.00	0	94.6	65	140	52.60	10.6	40	
2-Hexanone	49.10	0.83	5.0	50.00	0	98.2	45	145	49.64	1.1	40	
Dibromochloromethane	51.22	0.65	5.0	50.00	0	102	65	130	54.10	5.47	40	
1,2-Dibromoethane	51.89	0.74	5.0	50.00	0	104	70	125	52.33	0.838	40	
Chlorobenzene	50.64	0.51	5.0	50.00	0	101	75	125	53.70	5.87	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **LCSD-83228** SampType: **LCSD** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**

Client ID: **LCSD-83228** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 9:52** SeqNo: **2314323**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	49.35	0.77	5.0	50.00	0	98.7	75	125	53.92	8.86	40	
Ethylbenzene	48.39	0.50	5.0	50.00	0	96.8	75	125	54.19	11.3	40	
m,p-Xylene	100.8	1.6	5.0	100.0	0	101	80	125	109.1	7.92	40	
o-Xylene	49.14	0.47	5.0	50.00	0	98.3	75	125	55.77	12.7	40	
Xylene (Total)	149.9	0.47	5.0	150.0	0	99.9	83	125	164.8	9.5	40	
Styrene	51.07	0.52	5.0	50.00	0	102	75	125	53.55	4.76	40	
Bromoform	52.88	2.0	5.0	50.00	0	106	55	135	53.60	1.35	40	
Isopropylbenzene	49.06	0.58	5.0	50.00	0	98.1	75	130	52.62	7.01	40	
1,1,2,2-Tetrachloroethane	52.43	0.68	5.0	50.00	0	105	55	130	54.26	3.43	40	
Bromobenzene	51.49	0.58	5.0	50.00	0	103	65	120	56.64	9.52	40	
1,2,3-Trichloropropane	53.71	0.87	5.0	50.00	0	107	65	130	53.08	1.18	40	
n-Propylbenzene	50.08	0.44	5.0	50.00	0	100	65	135	54.14	7.8	40	
2-Chlorotoluene	51.19	0.74	5.0	50.00	0	102	70	130	55.25	7.63	40	
1,3,5-Trimethylbenzene	50.11	0.61	5.0	50.00	0	100	65	135	54.96	9.24	40	
4-Chlorotoluene	52.12	0.84	5.0	50.00	0	104	75	125	57.19	9.29	40	
tert-Butylbenzene	50.17	0.52	5.0	50.00	0	100	65	130	54.76	8.73	40	
1,2,4-Trimethylbenzene	50.85	0.57	5.0	50.00	0	102	65	135	54.91	7.67	40	
sec-Butylbenzene	50.21	0.62	5.0	50.00	0	100	65	130	54.16	7.57	40	
4-Isopropyltoluene	51.63	0.71	5.0	50.00	0	103	75	135	55.04	6.4	40	
1,3-Dichlorobenzene	51.28	0.70	5.0	50.00	0	103	70	125	53.58	4.37	40	
1,4-Dichlorobenzene	53.19	0.80	5.0	50.00	0	106	70	125	55.24	3.79	40	
n-Butylbenzene	49.74	0.67	5.0	50.00	0	99.5	65	140	52.94	6.24	40	
1,2-Dichlorobenzene	51.77	0.62	5.0	50.00	0	104	75	120	53.59	3.45	40	
1,2-Dibromo-3-chloropropane	51.93	1.3	5.0	50.00	0	104	40	135	50.54	2.71	40	
1,2,4-Trichlorobenzene	52.33	0.63	5.0	50.00	0	105	65	130	54.02	3.19	40	
Hexachlorobutadiene	48.81	0.62	5.0	50.00	0	97.6	55	140	52.36	7.03	40	
1,2,3-Trichlorobenzene	51.81	0.64	5.0	50.00	0	104	60	135	52.06	0.487	40	
Naphthalene	51.32	0.78	5.0	50.00	0	103	40	125	50.32	1.97	40	
Diethyl ether	45.41	1.3	5.0	50.00	0	90.8	70	130	47.08	3.61	40	
Tetrahydrofuran	90.35	4.6	10	100.0	0	90.3	70	130	89.99	0.401	40	
Surrogate: Dibromofluoromethane	47.10		5.0	50.00	0	94.2	76	128	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	48.65		5.0	50.00	0	97.3	88	110	0	0	40	
Surrogate: Toluene-d8	51.73		5.0	50.00	0	103	85	115	0	0	40	
Surrogate: Bromofluorobenzene	49.24		5.0	50.00	0	98.5	85	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1467-07CMS** SampType: **MS** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **NOB-119-0002** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 17:41** SeqNo: **2312966**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	34.07	0.90	4.6	45.85	0	74.3	35	135	0			
Chloromethane	32.98	0.73	4.6	45.85	0	71.9	50	130	0			
Vinyl chloride	37.21	0.58	4.6	45.85	0	81.2	60	125	0			
Bromomethane	29.68	1.0	4.6	45.85	0	64.7	30	160	0			
Chloroethane	35.72	0.92	4.6	45.85	0	77.9	40	155	0			
Trichlorofluoromethane	38.32	0.39	4.6	45.85	0	83.6	25	185	0			
1,1-Dichloroethene	35.96	0.87	4.6	45.85	0	78.4	65	135	0			
Acetone	35.73	1.5	4.6	45.85	0	77.9	20	160	0			
Carbon disulfide	34.46	0.28	4.6	45.85	0	75.2	45	160	0			
Methylene chloride	38.01	1.2	4.6	45.85	2.156	78.2	55	140	0			
trans-1,2-Dichloroethene	36.79	0.49	4.6	45.85	0	80.2	65	135	0			
Methyl tert-butyl ether	37.00	0.56	4.6	45.85	0	80.7	75	126	0			
1,1-Dichloroethane	37.96	0.61	4.6	45.85	0	82.8	75	125	0			
2-Butanone	36.01	1.8	4.6	45.85	0	78.5	30	160	0			
cis-1,2-Dichloroethene	37.70	0.69	4.6	45.85	0	82.2	65	125	0			
2,2-Dichloropropane	34.32	0.27	4.6	45.85	0	74.9	65	135	0			
Bromochloromethane	39.36	0.70	4.6	45.85	0	85.8	70	125	0			
Chloroform	37.21	0.59	4.6	45.85	0	81.2	70	125	0			
1,1,1-Trichloroethane	37.21	0.49	4.6	45.85	0	81.2	70	135	0			
1,1-Dichloropropene	33.92	0.74	4.6	45.85	0	74.0	70	135	0			
Carbon tetrachloride	35.08	0.30	4.6	45.85	0	76.5	65	135	0			
1,2-Dichloroethane	36.34	0.50	4.6	45.85	0	79.3	70	135	0			
Benzene	35.80	0.56	4.6	45.85	0	78.1	75	125	0			
Trichloroethene	29.52	0.57	4.6	45.85	0	64.4	75	125	0			S
1,2-Dichloropropane	36.27	0.63	4.6	45.85	0	79.1	70	120	0			
Dibromomethane	37.86	0.53	4.6	45.85	0	82.6	75	130	0			
Bromodichloromethane	35.60	0.89	4.6	45.85	0	77.6	70	130	0			
cis-1,3-Dichloropropene	34.03	0.61	4.6	45.85	0	74.2	70	125	0			
4-Methyl-2-pentanone	35.03	0.67	4.6	45.85	0	76.4	45	145	0			
Toluene	35.28	0.43	4.6	45.85	0	77.0	70	125	0			
trans-1,3-Dichloropropene	34.55	0.62	4.6	45.85	0	75.4	65	125	0			
1,1,2-Trichloroethane	37.24	0.44	4.6	45.85	0	81.2	60	125	0			
1,3-Dichloropropane	42.36	0.80	4.6	45.85	0	92.4	75	125	0			
Tetrachloroethene	38.22	0.57	4.6	45.85	0	83.4	65	140	0			
2-Hexanone	35.00	0.76	4.6	45.85	0	76.3	45	145	0			
Dibromochloromethane	41.96	0.60	4.6	45.85	0	91.5	65	130	0			
1,2-Dibromoethane	42.29	0.68	4.6	45.85	0	92.2	70	125	0			
Chlorobenzene	38.45	0.47	4.6	45.85	0	83.9	75	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1467-07CMS** SampType: **MS** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **NOB-119-0002** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 17:41** SeqNo: **2312966**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	38.54	0.71	4.6	45.85	0	84.1	75	125	0			
Ethylbenzene	38.20	0.46	4.6	45.85	0	83.3	75	125	0			
m,p-Xylene	73.32	1.5	4.6	91.69	0	80.0	80	125	0			S
o-Xylene	38.13	0.43	4.6	45.85	0	83.2	75	125	0			
Xylene (Total)	111.4	0.43	4.6	137.5	0	81.0	83	125	0			S
Styrene	36.21	0.48	4.6	45.85	0	79.0	75	125	0			
Bromoform	39.81	1.8	4.6	45.85	0	86.8	55	135	0			
Isopropylbenzene	34.78	0.53	4.6	45.85	0	75.9	75	130	0			
1,1,2,2-Tetrachloroethane	42.18	0.62	4.6	45.85	0	92.0	55	130	0			
Bromobenzene	35.64	0.53	4.6	45.85	0	77.7	65	120	0			
1,2,3-Trichloropropane	41.27	0.80	4.6	45.85	0	90.0	65	130	0			
n-Propylbenzene	31.58	0.40	4.6	45.85	0	68.9	65	135	0			
2-Chlorotoluene	33.88	0.68	4.6	45.85	0	73.9	70	130	0			
1,3,5-Trimethylbenzene	32.58	0.56	4.6	45.85	0	71.1	65	135	0			
4-Chlorotoluene	32.53	0.77	4.6	45.85	0	71.0	75	125	0			S
tert-Butylbenzene	32.08	0.48	4.6	45.85	0	70.0	65	130	0			
1,2,4-Trimethylbenzene	32.36	0.52	4.6	45.85	0	70.6	65	135	0			
sec-Butylbenzene	29.22	0.57	4.6	45.85	0	63.7	65	130	0			S
4-Isopropyltoluene	28.78	0.65	4.6	45.85	0	62.8	75	135	0			S
1,3-Dichlorobenzene	30.42	0.64	4.6	45.85	0	66.4	70	125	0			S
1,4-Dichlorobenzene	29.73	0.73	4.6	45.85	0	64.9	70	125	0			S
n-Butylbenzene	23.91	0.61	4.6	45.85	0	52.1	65	140	0			S
1,2-Dichlorobenzene	30.49	0.57	4.6	45.85	0	66.5	75	120	0			S
1,2-Dibromo-3-chloropropane	38.04	1.2	4.6	45.85	0	83.0	40	135	0			
1,2,4-Trichlorobenzene	21.08	0.58	4.6	45.85	0	46.0	65	130	0			S
Hexachlorobutadiene	17.17	0.57	4.6	45.85	0	37.4	55	140	0			S
1,2,3-Trichlorobenzene	20.91	0.59	4.6	45.85	0	45.6	60	135	0			S
Naphthalene	25.66	0.72	4.6	45.85	0	56.0	40	125	0			
Diethyl ether	38.31	1.2	4.6	45.85	0	83.6	70	130	0			
Tetrahydrofuran	78.47	4.2	9.2	91.69	0	85.6	70	130	0			
Surrogate: Dibromofluoromethane	44.58		4.6	45.85	0	97.2	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	41.51		4.6	45.85	0	90.5	88	110	0			
Surrogate: Toluene-d8	49.63		4.6	45.85	0	108	85	115	0			
Surrogate: Bromofluorobenzene	45.68		4.6	45.85	0	99.6	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1467-16CMS** SampType: **MS** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**
Client ID: **NOB-109-0002** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 15:47** SeqNo: **2314336**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	18.05	0.57	2.9	29.06	0	62.1	35	135	0			
Chloromethane	19.38	0.46	2.9	29.06	0	66.7	50	130	0			
Vinyl chloride	21.81	0.37	2.9	29.06	0	75.0	60	125	0			
Bromomethane	19.85	0.64	2.9	29.06	0	68.3	30	160	0			
Chloroethane	21.33	0.58	2.9	29.06	0	73.4	40	155	0			
Trichlorofluoromethane	22.29	0.24	2.9	29.06	0	76.7	25	185	0			
1,1-Dichloroethene	20.47	0.55	2.9	29.06	0	70.4	65	135	0			
Acetone	23.38	0.93	2.9	29.06	0	80.5	20	160	0			
Carbon disulfide	8.760	0.17	2.9	29.06	0	30.1	45	160	0			S
Methylene chloride	25.66	0.76	2.9	29.06	2.686	79.1	55	140	0			
trans-1,2-Dichloroethene	22.50	0.31	2.9	29.06	0	77.4	65	135	0			
Methyl tert-butyl ether	25.59	0.35	2.9	29.06	0	88.1	75	126	0			
1,1-Dichloroethane	22.80	0.39	2.9	29.06	0	78.4	75	125	0			
2-Butanone	27.60	1.2	2.9	29.06	0	95.0	30	160	0			
cis-1,2-Dichloroethene	23.14	0.44	2.9	29.06	0	79.6	65	125	0			
2,2-Dichloropropane	20.91	0.17	2.9	29.06	0	72.0	65	135	0			
Bromochloromethane	24.51	0.44	2.9	29.06	0	84.3	70	125	0			
Chloroform	23.03	0.37	2.9	29.06	0	79.2	70	125	0			
1,1,1-Trichloroethane	21.44	0.31	2.9	29.06	0	73.8	70	135	0			
1,1-Dichloropropene	20.25	0.47	2.9	29.06	0	69.7	70	135	0			S
Carbon tetrachloride	22.08	0.19	2.9	29.06	0	76.0	65	135	0			
1,2-Dichloroethane	24.20	0.31	2.9	29.06	0	83.3	70	135	0			
Benzene	21.78	0.35	2.9	29.06	0	75.0	75	125	0			S
Trichloroethene	18.62	0.36	2.9	29.06	0	64.1	75	125	0			S
1,2-Dichloropropane	23.09	0.40	2.9	29.06	0	79.5	70	120	0			
Dibromomethane	24.66	0.34	2.9	29.06	0	84.9	75	130	0			
Bromodichloromethane	23.16	0.56	2.9	29.06	0	79.7	70	130	0			
cis-1,3-Dichloropropene	22.40	0.39	2.9	29.06	0	77.1	70	125	0			
4-Methyl-2-pentanone	28.13	0.42	2.9	29.06	0	96.8	45	145	0			
Toluene	21.18	0.27	2.9	29.06	0	72.9	70	125	0			
trans-1,3-Dichloropropene	23.11	0.40	2.9	29.06	0	79.5	65	125	0			
1,1,2-Trichloroethane	24.95	0.28	2.9	29.06	0	85.9	60	125	0			
1,3-Dichloropropane	28.60	0.51	2.9	29.06	0	98.4	75	125	0			
Tetrachloroethene	25.17	0.36	2.9	29.06	0	86.6	65	140	0			
2-Hexanone	26.42	0.48	2.9	29.06	0	90.9	45	145	0			
Dibromochloromethane	27.95	0.38	2.9	29.06	0	96.2	65	130	0			
1,2-Dibromoethane	29.14	0.43	2.9	29.06	0	100	70	125	0			
Chlorobenzene	24.14	0.30	2.9	29.06	0	83.1	75	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1467-16CMS** SampType: **MS** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**

Client ID: **NOB-109-0002** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 15:47** SeqNo: **2314336**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	25.01	0.45	2.9	29.06	0	86.1	75	125	0			
Ethylbenzene	23.75	0.29	2.9	29.06	0	81.7	75	125	0			
m,p-Xylene	48.72	0.93	2.9	58.12	0	83.8	80	125	0			
o-Xylene	25.03	0.27	2.9	29.06	0	86.1	75	125	0			
Xylene (Total)	73.75	0.27	2.9	87.18	0	84.6	83	125	0			
Styrene	23.67	0.30	2.9	29.06	0	81.4	75	125	0			
Bromoform	29.40	1.2	2.9	29.06	0	101	55	135	0			
Isopropylbenzene	22.99	0.34	2.9	29.06	0	79.1	75	130	0			
1,1,2,2-Tetrachloroethane	31.28	0.40	2.9	29.06	0	108	55	130	0			
Bromobenzene	25.03	0.34	2.9	29.06	0	86.1	65	120	0			
1,2,3-Trichloropropane	31.29	0.51	2.9	29.06	0	108	65	130	0			
n-Propylbenzene	22.96	0.26	2.9	29.06	0	79.0	65	135	0			
2-Chlorotoluene	23.72	0.43	2.9	29.06	0	81.6	70	130	0			
1,3,5-Trimethylbenzene	24.01	0.35	2.9	29.06	0	82.6	65	135	0			
4-Chlorotoluene	23.30	0.49	2.9	29.06	0	80.2	75	125	0			
tert-Butylbenzene	23.70	0.30	2.9	29.06	0	81.6	65	130	0			
1,2,4-Trimethylbenzene	23.61	0.33	2.9	29.06	0	81.2	65	135	0			
sec-Butylbenzene	22.89	0.36	2.9	29.06	0	78.8	65	130	0			
4-Isopropyltoluene	23.25	0.41	2.9	29.06	0	80.0	75	135	0			
1,3-Dichlorobenzene	22.44	0.41	2.9	29.06	0	77.2	70	125	0			
1,4-Dichlorobenzene	22.59	0.46	2.9	29.06	0	77.7	70	125	0			
n-Butylbenzene	21.90	0.39	2.9	29.06	0	75.4	65	140	0			
1,2-Dichlorobenzene	23.26	0.36	2.9	29.06	0	80.1	75	120	0			
1,2-Dibromo-3-chloropropane	30.04	0.76	2.9	29.06	0	103	40	135	0			
1,2,4-Trichlorobenzene	18.82	0.37	2.9	29.06	0	64.8	65	130	0			S
Hexachlorobutadiene	21.25	0.36	2.9	29.06	0	73.1	55	140	0			
1,2,3-Trichlorobenzene	18.78	0.37	2.9	29.06	0	64.6	60	135	0			
Naphthalene	20.51	0.45	2.9	29.06	0	70.6	40	125	0			
Diethyl ether	25.33	0.76	2.9	29.06	0	87.2	70	130	0			
Tetrahydrofuran	59.78	2.7	5.8	58.12	0	103	70	130	0			
Surrogate: Dibromofluoromethane	27.88		2.9	29.06	0	96.0	76	128	0			
Surrogate: 1,2-Dichloroethane-d4	30.55		2.9	29.06	0	105	88	110	0			
Surrogate: Toluene-d8	27.53		2.9	29.06	0	94.7	85	115	0			
Surrogate: Bromofluorobenzene	28.86		2.9	29.06	0	99.3	85	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **P1467-07CMSD** SampType: **MSD** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **NOB-119-0002** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 18:06** SeqNo: **2312967**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	24.95	0.70	3.6	35.93	0	69.4	35	135	34.07	30.9	40	
Chloromethane	26.32	0.57	3.6	35.93	0	73.2	50	130	32.98	22.5	40	
Vinyl chloride	28.29	0.45	3.6	35.93	0	78.7	60	125	37.21	27.2	40	
Bromomethane	24.67	0.79	3.6	35.93	0	68.7	30	160	29.68	18.4	40	
Chloroethane	26.54	0.72	3.6	35.93	0	73.9	40	155	35.72	29.5	40	
Trichlorofluoromethane	27.43	0.30	3.6	35.93	0	76.3	25	185	38.32	33.1	40	
1,1-Dichloroethene	27.24	0.68	3.6	35.93	0	75.8	65	135	35.96	27.6	40	
Acetone	25.98	1.1	3.6	35.93	0	72.3	20	160	35.73	31.6	40	
Carbon disulfide	26.94	0.22	3.6	35.93	0	75.0	45	160	34.46	24.5	40	
Methylene chloride	29.34	0.93	3.6	35.93	2.156	75.6	55	140	38.01	25.7	40	
trans-1,2-Dichloroethene	28.55	0.38	3.6	35.93	0	79.5	65	135	36.79	25.2	40	
Methyl tert-butyl ether	29.79	0.44	3.6	35.93	0	82.9	75	126	37.00	21.6	40	
1,1-Dichloroethane	29.62	0.48	3.6	35.93	0	82.4	75	125	37.96	24.7	40	
2-Butanone	29.29	1.4	3.6	35.93	0	81.5	30	160	36.01	20.6	40	
cis-1,2-Dichloroethene	28.62	0.54	3.6	35.93	0	79.7	65	125	37.70	27.4	40	
2,2-Dichloropropane	27.26	0.21	3.6	35.93	0	75.9	65	135	34.32	22.9	40	
Bromochloromethane	30.95	0.55	3.6	35.93	0	86.1	70	125	39.36	23.9	40	
Chloroform	29.81	0.46	3.6	35.93	0	82.9	70	125	37.21	22.1	40	
1,1,1-Trichloroethane	27.77	0.38	3.6	35.93	0	77.3	70	135	37.21	29.1	40	
1,1-Dichloropropene	25.87	0.58	3.6	35.93	0	72.0	70	135	33.92	26.9	40	
Carbon tetrachloride	26.40	0.24	3.6	35.93	0	73.5	65	135	35.08	28.2	40	
1,2-Dichloroethane	29.15	0.39	3.6	35.93	0	81.1	70	135	36.34	22	40	
Benzene	28.09	0.44	3.6	35.93	0	78.2	75	125	35.80	24.1	40	
Trichloroethene	23.78	0.45	3.6	35.93	0	66.2	75	125	29.52	21.5	40	S
1,2-Dichloropropane	29.84	0.50	3.6	35.93	0	83.0	70	120	36.27	19.5	40	
Dibromomethane	30.70	0.42	3.6	35.93	0	85.4	75	130	37.86	20.9	40	
Bromodichloromethane	29.89	0.70	3.6	35.93	0	83.2	70	130	35.60	17.4	40	
cis-1,3-Dichloropropene	28.26	0.48	3.6	35.93	0	78.6	70	125	34.03	18.5	40	
4-Methyl-2-pentanone	30.40	0.52	3.6	35.93	0	84.6	45	145	35.03	14.2	40	
Toluene	27.50	0.34	3.6	35.93	0	76.5	70	125	35.28	24.8	40	
trans-1,3-Dichloropropene	29.07	0.49	3.6	35.93	0	80.9	65	125	34.55	17.2	40	
1,1,2-Trichloroethane	29.76	0.34	3.6	35.93	0	82.8	60	125	37.24	22.3	40	
1,3-Dichloropropane	35.33	0.63	3.6	35.93	0	98.3	75	125	42.36	18.1	40	
Tetrachloroethene	32.29	0.45	3.6	35.93	0	89.8	65	140	38.22	16.8	40	
2-Hexanone	31.02	0.60	3.6	35.93	0	86.3	45	145	35.00	12.1	40	
Dibromochloromethane	34.29	0.47	3.6	35.93	0	95.4	65	130	41.96	20.1	40	
1,2-Dibromoethane	37.07	0.53	3.6	35.93	0	103	70	125	42.29	13.2	40	
Chlorobenzene	32.22	0.37	3.6	35.93	0	89.7	75	125	38.45	17.7	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **P1467-07CMSD** SampType: **MSD** TestCode: **SW8260_LOW_S** Prep Date: **10/05/15 9:05** Run ID: **V1_151005A**
Client ID: **NOB-119-0002** Batch ID: **83214** Units: **ug/Kg** Analysis Date: **10/05/15 18:06** SeqNo: **2312967**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	31.82	0.55	3.6	35.93	0	88.5	75	125	38.54	19.1	40	
Ethylbenzene	29.16	0.36	3.6	35.93	0	81.2	75	125	38.20	26.8	40	
m,p-Xylene	62.45	1.1	3.6	71.87	0	86.9	80	125	73.32	16	40	
o-Xylene	31.90	0.34	3.6	35.93	0	88.8	75	125	38.13	17.8	40	
Xylene (Total)	94.35	0.34	3.6	107.8	0	87.5	83	125	111.4	16.6	40	
Styrene	31.22	0.37	3.6	35.93	0	86.9	75	125	36.21	14.8	40	
Bromoform	33.54	1.4	3.6	35.93	0	93.3	55	135	39.81	17.1	40	
Isopropylbenzene	30.02	0.42	3.6	35.93	0	83.5	75	130	34.78	14.7	40	
1,1,2,2-Tetrachloroethane	35.50	0.49	3.6	35.93	0	98.8	55	130	42.18	17.2	40	
Bromobenzene	33.00	0.42	3.6	35.93	0	91.8	65	120	35.64	7.69	40	
1,2,3-Trichloropropane	34.66	0.63	3.6	35.93	0	96.5	65	130	41.27	17.4	40	
n-Propylbenzene	29.61	0.32	3.6	35.93	0	82.4	65	135	31.58	6.47	40	
2-Chlorotoluene	30.88	0.53	3.6	35.93	0	85.9	70	130	33.88	9.26	40	
1,3,5-Trimethylbenzene	30.21	0.44	3.6	35.93	0	84.1	65	135	32.58	7.56	40	
4-Chlorotoluene	31.24	0.60	3.6	35.93	0	86.9	75	125	32.53	4.06	40	
tert-Butylbenzene	30.28	0.37	3.6	35.93	0	84.3	65	130	32.08	5.77	40	
1,2,4-Trimethylbenzene	29.79	0.41	3.6	35.93	0	82.9	65	135	32.36	8.28	40	
sec-Butylbenzene	29.21	0.45	3.6	35.93	0	81.3	65	130	29.22	0.0145	40	
4-Isopropyltoluene	29.58	0.51	3.6	35.93	0	82.3	75	135	28.78	2.75	40	
1,3-Dichlorobenzene	28.50	0.50	3.6	35.93	0	79.3	70	125	30.42	6.54	40	
1,4-Dichlorobenzene	28.24	0.57	3.6	35.93	0	78.6	70	125	29.73	5.14	40	
n-Butylbenzene	26.08	0.48	3.6	35.93	0	72.6	65	140	23.91	8.68	40	
1,2-Dichlorobenzene	29.00	0.45	3.6	35.93	0	80.7	75	120	30.49	5.03	40	
1,2-Dibromo-3-chloropropane	33.29	0.93	3.6	35.93	0	92.6	40	135	38.04	13.3	40	
1,2,4-Trichlorobenzene	22.10	0.45	3.6	35.93	0	61.5	65	130	21.08	4.75	40	S
Hexachlorobutadiene	23.48	0.45	3.6	35.93	0	65.3	55	140	17.17	31	40	
1,2,3-Trichlorobenzene	22.48	0.46	3.6	35.93	0	62.6	60	135	20.91	7.24	40	
Naphthalene	24.79	0.56	3.6	35.93	0	69.0	40	125	25.66	3.46	40	
Diethyl ether	31.21	0.93	3.6	35.93	0	86.9	70	130	38.31	20.4	40	
Tetrahydrofuran	63.37	3.3	7.2	71.87	0	88.2	70	130	78.47	21.3	40	
Surrogate: Dibromofluoromethane	34.16		3.6	35.93	0	95.1	76	128	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	37.24		3.6	35.93	0	104	88	110	0	0	40	
Surrogate: Toluene-d8	38.68		3.6	35.93	0	108	85	115	0	0	40	
Surrogate: Bromofluorobenzene	35.38		3.6	35.93	0	98.5	85	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Sample ID: **P1467-16CMSD** SampType: **MSD** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**

Client ID: **NOB-109-0002** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 16:13** SeqNo: **2314337**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Dichlorodifluoromethane	25.72	0.69	3.5	35.02	0	73.5	35	135	18.05	35	40	
Chloromethane	24.13	0.56	3.5	35.02	0	68.9	50	130	19.38	21.8	40	
Vinyl chloride	25.93	0.44	3.5	35.02	0	74.1	60	125	21.81	17.3	40	
Bromomethane	26.16	0.77	3.5	35.02	0	74.7	30	160	19.85	27.4	40	
Chloroethane	24.12	0.70	3.5	35.02	0	68.9	40	155	21.33	12.3	40	
Trichlorofluoromethane	26.53	0.29	3.5	35.02	0	75.8	25	185	22.29	17.4	40	
1,1-Dichloroethene	26.14	0.67	3.5	35.02	0	74.6	65	135	20.47	24.3	40	
Acetone	27.58	1.1	3.5	35.02	0	78.8	20	160	23.38	16.5	40	
Carbon disulfide	25.73	0.21	3.5	35.02	0	73.5	45	160	8.760	98.4	40	R
Methylene chloride	29.08	0.91	3.5	35.02	2.686	75.4	55	140	25.66	12.5	40	
trans-1,2-Dichloroethene	25.68	0.37	3.5	35.02	0	73.3	65	135	22.50	13.2	40	
Methyl tert-butyl ether	31.83	0.43	3.5	35.02	0	90.9	75	126	25.59	21.7	40	
1,1-Dichloroethane	29.31	0.47	3.5	35.02	0	83.7	75	125	22.80	25	40	
2-Butanone	30.17	1.4	3.5	35.02	0	86.1	30	160	27.60	8.91	40	
cis-1,2-Dichloroethene	28.06	0.53	3.5	35.02	0	80.1	65	125	23.14	19.2	40	
2,2-Dichloropropane	25.76	0.20	3.5	35.02	0	73.6	65	135	20.91	20.8	40	
Bromochloromethane	29.09	0.53	3.5	35.02	0	83.1	70	125	24.51	17.1	40	
Chloroform	29.26	0.45	3.5	35.02	0	83.5	70	125	23.03	23.8	40	
1,1,1-Trichloroethane	26.86	0.37	3.5	35.02	0	76.7	70	135	21.44	22.4	40	
1,1-Dichloropropene	25.88	0.57	3.5	35.02	0	73.9	70	135	20.25	24.4	40	
Carbon tetrachloride	26.49	0.23	3.5	35.02	0	75.6	65	135	22.08	18.2	40	
1,2-Dichloroethane	29.56	0.38	3.5	35.02	0	84.4	70	135	24.20	19.9	40	
Benzene	27.34	0.43	3.5	35.02	0	78.1	75	125	21.78	22.6	40	
Trichloroethene	23.19	0.43	3.5	35.02	0	66.2	75	125	18.62	21.9	40	S
1,2-Dichloropropane	28.70	0.48	3.5	35.02	0	81.9	70	120	23.09	21.6	40	
Dibromomethane	30.65	0.41	3.5	35.02	0	87.5	75	130	24.66	21.7	40	
Bromodichloromethane	28.39	0.68	3.5	35.02	0	81.1	70	130	23.16	20.3	40	
cis-1,3-Dichloropropene	27.11	0.47	3.5	35.02	0	77.4	70	125	22.40	19	40	
4-Methyl-2-pentanone	32.10	0.51	3.5	35.02	0	91.7	45	145	28.13	13.2	40	
Toluene	26.24	0.33	3.5	35.02	0	74.9	70	125	21.18	21.3	40	
trans-1,3-Dichloropropene	27.10	0.48	3.5	35.02	0	77.4	65	125	23.11	15.9	40	
1,1,2-Trichloroethane	29.11	0.34	3.5	35.02	0	83.1	60	125	24.95	15.4	40	
1,3-Dichloropropane	34.25	0.61	3.5	35.02	0	97.8	75	125	28.60	18	40	
Tetrachloroethene	30.80	0.43	3.5	35.02	0	87.9	65	140	25.17	20.1	40	
2-Hexanone	31.32	0.58	3.5	35.02	0	89.4	45	145	26.42	17	40	
Dibromochloromethane	32.11	0.46	3.5	35.02	0	91.7	65	130	27.95	13.8	40	
1,2-Dibromoethane	34.52	0.52	3.5	35.02	0	98.6	70	125	29.14	16.9	40	
Chlorobenzene	29.60	0.36	3.5	35.02	0	84.5	75	125	24.14	20.3	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S
SW846 8260C -- VOC by GC-MS

Sample ID: **P1467-16CMSD** SampType: **MSD** TestCode: **SW8260_LOW_S** Prep Date: **10/06/15 9:06** Run ID: **V1_151006A**
Client ID: **NOB-109-0002** Batch ID: **83228** Units: **ug/Kg** Analysis Date: **10/06/15 16:13** SeqNo: **2314337**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	30.09	0.54	3.5	35.02	0	85.9	75	125	25.01	18.4	40	
Ethylbenzene	29.12	0.35	3.5	35.02	0	83.1	75	125	23.75	20.3	40	
m,p-Xylene	57.40	1.1	3.5	70.04	0	81.9	80	125	48.72	16.4	40	
o-Xylene	30.83	0.33	3.5	35.02	0	88.0	75	125	25.03	20.8	40	
Xylene (Total)	88.23	0.33	3.5	105.1	0	84.0	83	125	73.75	17.9	40	
Styrene	28.46	0.36	3.5	35.02	0	81.3	75	125	23.67	18.4	40	
Bromoform	32.48	1.4	3.5	35.02	0	92.7	55	135	29.40	9.95	40	
Isopropylbenzene	28.48	0.41	3.5	35.02	0	81.3	75	130	22.99	21.4	40	
1,1,2,2-Tetrachloroethane	33.14	0.48	3.5	35.02	0	94.6	55	130	31.28	5.79	40	
Bromobenzene	28.88	0.41	3.5	35.02	0	82.5	65	120	25.03	14.3	40	
1,2,3-Trichloropropane	34.20	0.61	3.5	35.02	0	97.6	65	130	31.29	8.86	40	
n-Propylbenzene	25.95	0.31	3.5	35.02	0	74.1	65	135	22.96	12.2	40	
2-Chlorotoluene	27.86	0.52	3.5	35.02	0	79.6	70	130	23.72	16.1	40	
1,3,5-Trimethylbenzene	27.47	0.43	3.5	35.02	0	78.4	65	135	24.01	13.4	40	
4-Chlorotoluene	28.02	0.59	3.5	35.02	0	80.0	75	125	23.30	18.4	40	
tert-Butylbenzene	27.74	0.36	3.5	35.02	0	79.2	65	130	23.70	15.7	40	
1,2,4-Trimethylbenzene	27.80	0.40	3.5	35.02	0	79.4	65	135	23.61	16.3	40	
sec-Butylbenzene	26.79	0.43	3.5	35.02	0	76.5	65	130	22.89	15.7	40	
4-Isopropyltoluene	26.56	0.50	3.5	35.02	0	75.8	75	135	23.25	13.3	40	
1,3-Dichlorobenzene	25.44	0.49	3.5	35.02	0	72.6	70	125	22.44	12.5	40	
1,4-Dichlorobenzene	25.60	0.56	3.5	35.02	0	73.1	70	125	22.59	12.5	40	
n-Butylbenzene	24.68	0.47	3.5	35.02	0	70.5	65	140	21.90	11.9	40	
1,2-Dichlorobenzene	25.69	0.43	3.5	35.02	0	73.3	75	120	23.26	9.9	40	S
1,2-Dibromo-3-chloropropane	30.98	0.91	3.5	35.02	0	88.5	40	135	30.04	3.08	40	
1,2,4-Trichlorobenzene	18.85	0.44	3.5	35.02	0	53.8	65	130	18.82	0.154	40	S
Hexachlorobutadiene	21.64	0.43	3.5	35.02	0	61.8	55	140	21.25	1.8	40	
1,2,3-Trichlorobenzene	17.78	0.45	3.5	35.02	0	50.8	60	135	18.78	5.45	40	S
Naphthalene	21.72	0.55	3.5	35.02	0	62.0	40	125	20.51	5.75	40	
Diethyl ether	30.92	0.91	3.5	35.02	0	88.3	70	130	25.33	19.9	40	
Tetrahydrofuran	72.52	3.2	7.0	70.04	0	104	70	130	59.78	19.3	40	
Surrogate: Dibromofluoromethane	33.84		3.5	35.02	0	96.6	76	128	0	0	40	
Surrogate: 1,2-Dichloroethane-d4	32.71		3.5	35.02	0	93.4	88	110	0	0	40	
Surrogate: Toluene-d8	38.02		3.5	35.02	0	109	85	115	0	0	40	
Surrogate: Bromofluorobenzene	35.18		3.5	35.02	0	100	85	120	0	0	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8260_LOW_S

SW846 8260C -- VOC by GC-MS

Qualifiers: ND - Not Detected at the MDL | S - Recovery outside accepted recovery limits | MDL - Method Detection Limit | B - Analyte detected in the associated Method Blank

J - Analyte detected below quanititation limits | R - RPD outside accepted recovery limits | RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002
Lab ID: P1467-01
Project: Barrington, RI site
Collection Date: 09/30/15 08:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		1900	ug/Kg	1	10/07/2015 15:52	83236
Surrogate: Bromofluorobenzene	100		79-118	%REC	1	10/07/2015 15:52	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709
Lab ID: P1467-02

Project: Barrington, RI site
Collection Date: 09/30/15 08:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		1900	ug/Kg	1	10/07/2015 16:15	83236
Surrogate: Bromofluorobenzene	102		79-118	%REC	1	10/07/2015 16:15	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002
Lab ID: P1467-03

Project: Barrington, RI site
Collection Date: 09/30/15 09:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2300	ug/Kg	1	10/07/2015 16:37	83236
Surrogate: Bromofluorobenzene	104		79-118	%REC	1	10/07/2015 16:37	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214
Lab ID: P1467-04

Project: Barrington, RI site
Collection Date: 09/30/15 09:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2300	ug/Kg	1	10/08/2015 09:40	83249
Surrogate: Bromofluorobenzene	102		79-118	%REC	1	10/08/2015 09:40	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002
Lab ID: P1467-05

Project: Barrington, RI site
Collection Date: 09/30/15 09:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2300	ug/Kg	1	10/08/2015 10:02	83249
Surrogate: Bromofluorobenzene	95.6		79-118	%REC	1	10/08/2015 10:02	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810
Lab ID: P1467-06

Project: Barrington, RI site
Collection Date: 09/30/15 09:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2200	ug/Kg	1	10/08/2015 10:23	83249
Surrogate: Bromofluorobenzene	96.7		79-118	%REC	1	10/08/2015 10:23	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002
Lab ID: P1467-07

Project: Barrington, RI site
Collection Date: 09/30/15 09:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2500	ug/Kg	1	10/07/2015 16:58	83236
Surrogate: Bromofluorobenzene	102		79-118	%REC	1	10/07/2015 16:58	83236

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507
Lab ID: P1467-08

Project: Barrington, RI site
Collection Date: 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2100	ug/Kg	1	10/08/2015 10:44	83249
Surrogate: Bromofluorobenzene	93.7		79-118	%REC	1	10/08/2015 10:44	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002
Lab ID: P1467-09
Project: Barrington, RI site
Collection Date: 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2200	ug/Kg	1	10/08/2015 11:05	83249
Surrogate: Bromofluorobenzene	93.6		79-118	%REC	1	10/08/2015 11:05	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315
Lab ID: P1467-10

Project: Barrington, RI site
Collection Date: 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2700	ug/Kg	1	10/08/2015 11:27	83249
Surrogate: Bromofluorobenzene	97.5		79-118	%REC	1	10/08/2015 11:27	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02
Lab ID: P1467-11
Project: Barrington, RI site
Collection Date: 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2300	ug/Kg	1	10/08/2015 11:48	83249
Surrogate: Bromofluorobenzene	110		79-118	%REC	1	10/08/2015 11:48	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002
Lab ID: P1467-12
Project: Barrington, RI site
Collection Date: 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2800	ug/Kg	1	10/08/2015 12:09	83249
Surrogate: Bromofluorobenzene	106		79-118	%REC	1	10/08/2015 12:09	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507
Lab ID: P1467-13

Project: Barrington, RI site
Collection Date: 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2400	ug/Kg	1	10/08/2015 12:31	83249
Surrogate: Bromofluorobenzene	106		79-118	%REC	1	10/08/2015 12:31	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002
Lab ID: P1467-14
Project: Barrington, RI site
Collection Date: 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2300	ug/Kg	1	10/08/2015 12:52	83249
Surrogate: Bromofluorobenzene	102		79-118	%REC	1	10/08/2015 12:52	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012
Lab ID: P1467-15

Project: Barrington, RI site
Collection Date: 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2600	ug/Kg	1	10/08/2015 13:14	83249
Surrogate: Bromofluorobenzene	97.2		79-118	%REC	1	10/08/2015 13:14	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002
Lab ID: P1467-16

Project: Barrington, RI site
Collection Date: 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2200	ug/Kg	1	10/08/2015 13:36	83249
Surrogate: Bromofluorobenzene	96.0		79-118	%REC	1	10/08/2015 13:36	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810
Lab ID: P1467-17

Project: Barrington, RI site
Collection Date: 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2200	ug/Kg	1	10/08/2015 13:59	83249
Surrogate: Bromofluorobenzene	88.3		79-118	%REC	1	10/08/2015 13:59	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002
Lab ID: P1467-18

Project: Barrington, RI site
Collection Date: 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2600	ug/Kg	1	10/08/2015 14:20	83249
Surrogate: Bromofluorobenzene	110		79-118	%REC	1	10/08/2015 14:20	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507
Lab ID: P1467-19

Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2700	ug/Kg	1	10/08/2015 14:42	83249
Surrogate: Bromofluorobenzene	106		79-118	%REC	1	10/08/2015 14:42	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002
Lab ID: P1467-20
Project: Barrington, RI site
Collection Date: 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		1900	ug/Kg	1	10/08/2015 15:03	83249
Surrogate: Bromofluorobenzene	105		79-118	%REC	1	10/08/2015 15:03	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01
Lab ID: P1467-21
Project: Barrington, RI site
Collection Date: 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2000	ug/Kg	1	10/08/2015 15:25	83249
Surrogate: Bromofluorobenzene	103		79-118	%REC	1	10/08/2015 15:25	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709
Lab ID: P1467-22

Project: Barrington, RI site
Collection Date: 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID							**GRO_S**
Gasoline Range Organics	ND		2200	ug/Kg	1	10/08/2015 15:46	83249
Surrogate: Bromofluorobenzene	101		79-118	%REC	1	10/08/2015 15:46	83249

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

GRO_S

SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID

Sample ID: **MB-83236** SampType: **MBLK** TestCode: **GRO_S** Prep Date: **10/07/15 07:28** Run ID: **V4_151007A**
Client ID: **MB-83236** Batch ID: **83236** Units: **ug/Kg** Analysis Date: **10/07/15 09:24** SeqNo: **2314049**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	450	2500									
Surrogate: Bromofluorobenzene	18.21		250	20.00	0	91.1	79	118	0			

Sample ID: **MB-83249** SampType: **MBLK** TestCode: **GRO_S** Prep Date: **10/08/15 07:21** Run ID: **V4_151008A**
Client ID: **MB-83249** Batch ID: **83249** Units: **ug/Kg** Analysis Date: **10/08/15 09:19** SeqNo: **2314725**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	450	2500									
Surrogate: Bromofluorobenzene	21.00		250	20.00	0	105	79	118	0			

Sample ID: **LCS-83236** SampType: **LCS** TestCode: **GRO_S** Prep Date: **10/07/15 07:28** Run ID: **V4_151007A**
Client ID: **LCS-83236** Batch ID: **83236** Units: **ug/Kg** Analysis Date: **10/07/15 09:03** SeqNo: **2314054**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	21420	450	2500	25000	0	85.7	80	120	0			
Surrogate: Bromofluorobenzene	18.95		250	20.00	0	94.8	79	118	0			

Sample ID: **LCS-83249** SampType: **LCS** TestCode: **GRO_S** Prep Date: **10/08/15 07:21** Run ID: **V4_151008A**
Client ID: **LCS-83249** Batch ID: **83249** Units: **ug/Kg** Analysis Date: **10/08/15 08:58** SeqNo: **2314724**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	26520	450	2500	25000	0	106	80	120	0			
Surrogate: Bromofluorobenzene	18.84		250	20.00	0	94.2	79	118	0			

Sample ID: **P1467-07DMS** SampType: **MS** TestCode: **GRO_S** Prep Date: **10/07/15 07:28** Run ID: **V4_151007A**
Client ID: **NOB-119-0002** Batch ID: **83236** Units: **ug/Kg** Analysis Date: **10/07/15 17:20** SeqNo: **2314342**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	21130	420	2300	23390	0	90.4	60	140	0			
Surrogate: Bromofluorobenzene	18.58		230	20.00	0	92.9	79	118	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

GRO_S

SW846 8015D GRO -- Gasoline Range Organic (GRO) by GC-FID

Sample ID: **P1467-16DMS** SampType: **MS** TestCode: **GRO_S** Prep Date: **10/08/15 07:21** Run ID: **V4_151008A**
Client ID: **NOB-109-0002** Batch ID: **83249** Units: **ug/Kg** Analysis Date: **10/08/15 16:08** SeqNo: **2315110**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	23070	410	2300	22700	0	102	60	140	0			
Surrogate: Bromofluorobenzene	19.37		230	20.00	0	96.8	79	118	0			

Sample ID: **P1467-07DMSD** SampType: **MSD** TestCode: **GRO_S** Prep Date: **10/07/15 07:28** Run ID: **V4_151007A**
Client ID: **NOB-119-0002** Batch ID: **83236** Units: **ug/Kg** Analysis Date: **10/07/15 17:41** SeqNo: **2314343**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	19410	370	2100	20580	0	94.3	60	140	21130	8.48	20	
Surrogate: Bromofluorobenzene	18.37		210	20.00	0	91.9	79	118	0			

Sample ID: **P1467-16DMSD** SampType: **MSD** TestCode: **GRO_S** Prep Date: **10/08/15 07:21** Run ID: **V4_151008A**
Client ID: **NOB-109-0002** Batch ID: **83249** Units: **ug/Kg** Analysis Date: **10/08/15 16:31** SeqNo: **2315111**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	22280	410	2300	22700	0	98.1	60	140	23070	3.49	20	
Surrogate: Bromofluorobenzene	18.36		230	20.00	0	91.8	79	118	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Bis(2-chloroethyl)ether	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2-Chlorophenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
1,3-Dichlorobenzene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
1,4-Dichlorobenzene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
1,2-Dichlorobenzene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2-Methylphenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
4-Methylphenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
N-Nitroso-di-n-propylamine	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Hexachloroethane	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Nitrobenzene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Isophorone	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2-Nitrophenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2,4-Dimethylphenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2,4-Dichlorophenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Naphthalene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
4-Chloroaniline	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Bis(2-chloroethoxy)methane	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Hexachlorobutadiene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2-Methylnaphthalene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Hexachlorocyclopentadiene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2,4,5-Trichlorophenol	ND		710	ug/Kg	1	10/07/2015 23:17	83206
2-Chloronaphthalene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2-Nitroaniline	ND		710	ug/Kg	1	10/07/2015 23:17	83206
Dimethylphthalate	280	J	350	ug/Kg	1	10/07/2015 23:17	83206
Acenaphthylene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2,6-Dinitrotoluene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
3-Nitroaniline	ND		710	ug/Kg	1	10/07/2015 23:17	83206
Acenaphthene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2,4-Dinitrophenol	ND		710	ug/Kg	1	10/07/2015 23:17	83206
4-Nitrophenol	ND		710	ug/Kg	1	10/07/2015 23:17	83206
Dibenzofuran	ND		350	ug/Kg	1	10/07/2015 23:17	83206
2,4-Dinitrotoluene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Diethylphthalate	ND		350	ug/Kg	1	10/07/2015 23:17	83206
4-Chlorophenyl-phenylether	ND		350	ug/Kg	1	10/07/2015 23:17	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
4-Nitroaniline	ND		710	ug/Kg	1	10/07/2015 23:17	83206
4,6-Dinitro-2-methylphenol	ND		710	ug/Kg	1	10/07/2015 23:17	83206
N-Nitrosodiphenylamine	ND		350	ug/Kg	1	10/07/2015 23:17	83206
4-Bromophenyl-phenylether	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Hexachlorobenzene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Pentachlorophenol	ND		710	ug/Kg	1	10/07/2015 23:17	83206
Phenanthrene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Anthracene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Carbazole	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Di-n-butylphthalate	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Fluoranthene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Pyrene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Butylbenzylphthalate	ND		350	ug/Kg	1	10/07/2015 23:17	83206
3,3´-Dichlorobenzidine	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Benzo(a)anthracene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Chrysene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Bis(2-ethylhexyl)phthalate	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Di-n-octylphthalate	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Benzo(b)fluoranthene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Benzo(k)fluoranthene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Benzo(a)pyrene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Dibenzo(a,h)anthracene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
1,1´-Biphenyl	ND		350	ug/Kg	1	10/07/2015 23:17	83206
3-Methylphenol + 4-Methylphenol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Acetophenone	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Aniline	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Azobenzene	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Benzidine	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Benzoic acid	ND		710	ug/Kg	1	10/07/2015 23:17	83206
Benzyl alcohol	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Bis(2-chloroisopropyl)ether	ND		350	ug/Kg	1	10/07/2015 23:17	83206
N-Nitrosodimethylamine	ND		350	ug/Kg	1	10/07/2015 23:17	83206
Surrogate: Nitrobenzene-d5	81.6		35-100	%REC	1	10/07/2015 23:17	83206
Surrogate: 2-Fluorobiphenyl	75.1		45-105	%REC	1	10/07/2015 23:17	83206
Surrogate: Terphenyl-d14	92.5		30-125	%REC	1	10/07/2015 23:17	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	88.1		40-100	%REC	1	10/07/2015 23:17	83206
Surrogate: 2-Fluorophenol	85.3		35-105	%REC	1	10/07/2015 23:17	83206
Surrogate: 2,4,6-Tribromophenol	61.3		35-125	%REC	1	10/07/2015 23:17	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Bis(2-chloroethyl)ether	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2-Chlorophenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
1,3-Dichlorobenzene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
1,4-Dichlorobenzene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
1,2-Dichlorobenzene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2-Methylphenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
4-Methylphenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
N-Nitroso-di-n-propylamine	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Hexachloroethane	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Nitrobenzene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Isophorone	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2-Nitrophenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2,4-Dimethylphenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2,4-Dichlorophenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
1,2,4-Trichlorobenzene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Naphthalene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
4-Chloroaniline	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Bis(2-chloroethoxy)methane	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Hexachlorobutadiene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
4-Chloro-3-methylphenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2-Methylnaphthalene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Hexachlorocyclopentadiene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2,4,6-Trichlorophenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2,4,5-Trichlorophenol	ND		670	ug/Kg	1	10/07/2015 23:43	83206
2-Chloronaphthalene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2-Nitroaniline	ND		670	ug/Kg	1	10/07/2015 23:43	83206
Dimethylphthalate	390		330	ug/Kg	1	10/07/2015 23:43	83206
Acenaphthylene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2,6-Dinitrotoluene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
3-Nitroaniline	ND		670	ug/Kg	1	10/07/2015 23:43	83206
Acenaphthene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2,4-Dinitrophenol	ND		670	ug/Kg	1	10/07/2015 23:43	83206
4-Nitrophenol	ND		670	ug/Kg	1	10/07/2015 23:43	83206
Dibenzofuran	ND		330	ug/Kg	1	10/07/2015 23:43	83206
2,4-Dinitrotoluene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Diethylphthalate	ND		330	ug/Kg	1	10/07/2015 23:43	83206
4-Chlorophenyl-phenylether	ND		330	ug/Kg	1	10/07/2015 23:43	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
4-Nitroaniline	ND		670	ug/Kg	1	10/07/2015 23:43	83206
4,6-Dinitro-2-methylphenol	ND		670	ug/Kg	1	10/07/2015 23:43	83206
N-Nitrosodiphenylamine	ND		330	ug/Kg	1	10/07/2015 23:43	83206
4-Bromophenyl-phenylether	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Hexachlorobenzene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Pentachlorophenol	ND		670	ug/Kg	1	10/07/2015 23:43	83206
Phenanthrene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Anthracene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Carbazole	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Di-n-butylphthalate	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Fluoranthene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Pyrene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Butylbenzylphthalate	ND		330	ug/Kg	1	10/07/2015 23:43	83206
3,3´-Dichlorobenzidine	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Benzo(a)anthracene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Chrysene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Bis(2-ethylhexyl)phthalate	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Di-n-octylphthalate	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Benzo(b)fluoranthene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Benzo(k)fluoranthene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Benzo(a)pyrene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Indeno(1,2,3-cd)pyrene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Dibenzo(a,h)anthracene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Benzo(g,h,i)perylene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
1,1´-Biphenyl	ND		330	ug/Kg	1	10/07/2015 23:43	83206
3-Methylphenol + 4-Methylphenol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Acetophenone	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Aniline	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Azobenzene	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Benzidine	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Benzoic acid	ND		670	ug/Kg	1	10/07/2015 23:43	83206
Benzyl alcohol	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Bis(2-chloroisopropyl)ether	ND		330	ug/Kg	1	10/07/2015 23:43	83206
N-Nitrosodimethylamine	ND		330	ug/Kg	1	10/07/2015 23:43	83206
Surrogate: Nitrobenzene-d5	65.2		35-100	%REC	1	10/07/2015 23:43	83206
Surrogate: 2-Fluorobiphenyl	60.3		45-105	%REC	1	10/07/2015 23:43	83206
Surrogate: Terphenyl-d14	70.5		30-125	%REC	1	10/07/2015 23:43	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	77.0		40-100	%REC	1	10/07/2015 23:43	83206
Surrogate: 2-Fluorophenol	73.2		35-105	%REC	1	10/07/2015 23:43	83206
Surrogate: 2,4,6-Tribromophenol	51.4		35-125	%REC	1	10/07/2015 23:43	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2-Chlorophenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2-Methylphenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Hexachloroethane	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Nitrobenzene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Isophorone	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2-Nitrophenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Naphthalene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
4-Chloroaniline	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Hexachlorobutadiene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2-Methylnaphthalene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2,4,5-Trichlorophenol	ND		740	ug/Kg	1	10/08/2015 12:04	83206
2-Chloronaphthalene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 12:04	83206
Dimethylphthalate	310	J	370	ug/Kg	1	10/08/2015 12:04	83206
Acenaphthylene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
3-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 12:04	83206
Acenaphthene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2,4-Dinitrophenol	ND		740	ug/Kg	1	10/08/2015 12:04	83206
4-Nitrophenol	ND		740	ug/Kg	1	10/08/2015 12:04	83206
Dibenzofuran	ND		370	ug/Kg	1	10/08/2015 12:04	83206
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Diethylphthalate	ND		370	ug/Kg	1	10/08/2015 12:04	83206
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 12:04	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
4-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 12:04	83206
4,6-Dinitro-2-methylphenol	ND		740	ug/Kg	1	10/08/2015 12:04	83206
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/08/2015 12:04	83206
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Hexachlorobenzene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Pentachlorophenol	ND		740	ug/Kg	1	10/08/2015 12:04	83206
Phenanthrene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Anthracene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Carbazole	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Di-n-butylphthalate	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Fluoranthene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Pyrene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Butylbenzylphthalate	ND		370	ug/Kg	1	10/08/2015 12:04	83206
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Benzo(a)anthracene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Chrysene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Di-n-octylphthalate	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Benzo(a)pyrene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
1,1´-Biphenyl	ND		370	ug/Kg	1	10/08/2015 12:04	83206
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Acetophenone	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Aniline	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Azobenzene	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Benzidine	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Benzoic acid	180	J	740	ug/Kg	1	10/08/2015 12:04	83206
Benzyl alcohol	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/08/2015 12:04	83206
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/08/2015 12:04	83206
Surrogate: Nitrobenzene-d5	64.0		35-100	%REC	1	10/08/2015 12:04	83206
Surrogate: 2-Fluorobiphenyl	64.1		45-105	%REC	1	10/08/2015 12:04	83206
Surrogate: Terphenyl-d14	74.1		30-125	%REC	1	10/08/2015 12:04	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	89.0		40-100	%REC	1	10/08/2015 12:04	83206
Surrogate: 2-Fluorophenol	78.9		35-105	%REC	1	10/08/2015 12:04	83206
Surrogate: 2,4,6-Tribromophenol	50.1		35-125	%REC	1	10/08/2015 12:04	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Bis(2-chloroethyl)ether	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2-Chlorophenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
1,3-Dichlorobenzene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
1,4-Dichlorobenzene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
1,2-Dichlorobenzene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2-Methylphenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
4-Methylphenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
N-Nitroso-di-n-propylamine	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Hexachloroethane	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Nitrobenzene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Isophorone	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2-Nitrophenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2,4-Dimethylphenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2,4-Dichlorophenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
1,2,4-Trichlorobenzene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Naphthalene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
4-Chloroaniline	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Bis(2-chloroethoxy)methane	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Hexachlorobutadiene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
4-Chloro-3-methylphenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2-Methylnaphthalene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Hexachlorocyclopentadiene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2,4,6-Trichlorophenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2,4,5-Trichlorophenol	ND		680	ug/Kg	1	10/08/2015 0:36	83206
2-Chloronaphthalene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2-Nitroaniline	ND		680	ug/Kg	1	10/08/2015 0:36	83206
Dimethylphthalate	530		340	ug/Kg	1	10/08/2015 0:36	83206
Acenaphthylene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2,6-Dinitrotoluene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
3-Nitroaniline	ND		680	ug/Kg	1	10/08/2015 0:36	83206
Acenaphthene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2,4-Dinitrophenol	ND		680	ug/Kg	1	10/08/2015 0:36	83206
4-Nitrophenol	ND		680	ug/Kg	1	10/08/2015 0:36	83206
Dibenzofuran	ND		340	ug/Kg	1	10/08/2015 0:36	83206
2,4-Dinitrotoluene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Diethylphthalate	ND		340	ug/Kg	1	10/08/2015 0:36	83206
4-Chlorophenyl-phenylether	ND		340	ug/Kg	1	10/08/2015 0:36	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
4-Nitroaniline	ND		680	ug/Kg	1	10/08/2015 0:36	83206
4,6-Dinitro-2-methylphenol	ND		680	ug/Kg	1	10/08/2015 0:36	83206
N-Nitrosodiphenylamine	ND		340	ug/Kg	1	10/08/2015 0:36	83206
4-Bromophenyl-phenylether	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Hexachlorobenzene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Pentachlorophenol	ND		680	ug/Kg	1	10/08/2015 0:36	83206
Phenanthrene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Anthracene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Carbazole	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Di-n-butylphthalate	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Fluoranthene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Pyrene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Butylbenzylphthalate	ND		340	ug/Kg	1	10/08/2015 0:36	83206
3,3´-Dichlorobenzidine	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Benzo(a)anthracene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Chrysene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Bis(2-ethylhexyl)phthalate	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Di-n-octylphthalate	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Benzo(b)fluoranthene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Benzo(k)fluoranthene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Benzo(a)pyrene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Indeno(1,2,3-cd)pyrene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Dibenzo(a,h)anthracene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Benzo(g,h,i)perylene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
1,1´-Biphenyl	ND		340	ug/Kg	1	10/08/2015 0:36	83206
3-Methylphenol + 4-Methylphenol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Acetophenone	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Aniline	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Azobenzene	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Benzidine	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Benzoic acid	ND		680	ug/Kg	1	10/08/2015 0:36	83206
Benzyl alcohol	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Bis(2-chloroisopropyl)ether	ND		340	ug/Kg	1	10/08/2015 0:36	83206
N-Nitrosodimethylamine	ND		340	ug/Kg	1	10/08/2015 0:36	83206
Surrogate: Nitrobenzene-d5	68.8		35-100	%REC	1	10/08/2015 0:36	83206
Surrogate: 2-Fluorobiphenyl	64.4		45-105	%REC	1	10/08/2015 0:36	83206
Surrogate: Terphenyl-d14	81.2		30-125	%REC	1	10/08/2015 0:36	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	83.7		40-100	%REC	1	10/08/2015 0:36	83206
Surrogate: 2-Fluorophenol	77.0		35-105	%REC	1	10/08/2015 0:36	83206
Surrogate: 2,4,6-Tribromophenol	57.1		35-125	%REC	1	10/08/2015 0:36	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Bis(2-chloroethyl)ether	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2-Chlorophenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
1,3-Dichlorobenzene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
1,4-Dichlorobenzene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
1,2-Dichlorobenzene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2-Methylphenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
4-Methylphenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
N-Nitroso-di-n-propylamine	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Hexachloroethane	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Nitrobenzene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Isophorone	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2-Nitrophenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2,4-Dimethylphenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2,4-Dichlorophenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
1,2,4-Trichlorobenzene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Naphthalene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
4-Chloroaniline	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Bis(2-chloroethoxy)methane	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Hexachlorobutadiene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
4-Chloro-3-methylphenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2-Methylnaphthalene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Hexachlorocyclopentadiene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2,4,6-Trichlorophenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2,4,5-Trichlorophenol	ND		740	ug/Kg	1	10/08/2015 12:58	83206
2-Chloronaphthalene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 12:58	83206
Dimethylphthalate	250	J	360	ug/Kg	1	10/08/2015 12:58	83206
Acenaphthylene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2,6-Dinitrotoluene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
3-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 12:58	83206
Acenaphthene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2,4-Dinitrophenol	ND		740	ug/Kg	1	10/08/2015 12:58	83206
4-Nitrophenol	ND		740	ug/Kg	1	10/08/2015 12:58	83206
Dibenzofuran	ND		360	ug/Kg	1	10/08/2015 12:58	83206
2,4-Dinitrotoluene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Diethylphthalate	ND		360	ug/Kg	1	10/08/2015 12:58	83206
4-Chlorophenyl-phenylether	ND		360	ug/Kg	1	10/08/2015 12:58	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
4-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 12:58	83206
4,6-Dinitro-2-methylphenol	ND		740	ug/Kg	1	10/08/2015 12:58	83206
N-Nitrosodiphenylamine	ND		360	ug/Kg	1	10/08/2015 12:58	83206
4-Bromophenyl-phenylether	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Hexachlorobenzene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Pentachlorophenol	ND		740	ug/Kg	1	10/08/2015 12:58	83206
Phenanthrene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Anthracene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Carbazole	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Di-n-butylphthalate	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Fluoranthene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Pyrene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Butylbenzylphthalate	ND		360	ug/Kg	1	10/08/2015 12:58	83206
3,3´-Dichlorobenzidine	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Benzo(a)anthracene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Chrysene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Bis(2-ethylhexyl)phthalate	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Di-n-octylphthalate	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Benzo(b)fluoranthene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Benzo(k)fluoranthene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Benzo(a)pyrene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Indeno(1,2,3-cd)pyrene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Dibenzo(a,h)anthracene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Benzo(g,h,i)perylene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
1,1´-Biphenyl	ND		360	ug/Kg	1	10/08/2015 12:58	83206
3-Methylphenol + 4-Methylphenol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Acetophenone	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Aniline	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Azobenzene	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Benzidine	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Benzoic acid	ND		740	ug/Kg	1	10/08/2015 12:58	83206
Benzyl alcohol	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Bis(2-chloroisopropyl)ether	ND		360	ug/Kg	1	10/08/2015 12:58	83206
N-Nitrosodimethylamine	ND		360	ug/Kg	1	10/08/2015 12:58	83206
Surrogate: Nitrobenzene-d5	78.9		35-100	%REC	1	10/08/2015 12:58	83206
Surrogate: 2-Fluorobiphenyl	75.9		45-105	%REC	1	10/08/2015 12:58	83206
Surrogate: Terphenyl-d14	85.2		30-125	%REC	1	10/08/2015 12:58	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	105	S	40-100	%REC	1	10/08/2015 12:58	83206
Surrogate: 2-Fluorophenol	99.5		35-105	%REC	1	10/08/2015 12:58	83206
Surrogate: 2,4,6-Tribromophenol	60.3		35-125	%REC	1	10/08/2015 12:58	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2-Chlorophenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2-Methylphenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Hexachloroethane	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Nitrobenzene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Isophorone	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2-Nitrophenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Naphthalene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
4-Chloroaniline	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Hexachlorobutadiene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2-Methylnaphthalene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2,4,5-Trichlorophenol	ND		750	ug/Kg	1	10/08/2015 1:28	83206
2-Chloronaphthalene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 1:28	83206
Dimethylphthalate	360	J	370	ug/Kg	1	10/08/2015 1:28	83206
Acenaphthylene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
3-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 1:28	83206
Acenaphthene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2,4-Dinitrophenol	ND		750	ug/Kg	1	10/08/2015 1:28	83206
4-Nitrophenol	ND		750	ug/Kg	1	10/08/2015 1:28	83206
Dibenzofuran	ND		370	ug/Kg	1	10/08/2015 1:28	83206
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Diethylphthalate	ND		370	ug/Kg	1	10/08/2015 1:28	83206
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 1:28	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
4-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 1:28	83206
4,6-Dinitro-2-methylphenol	ND		750	ug/Kg	1	10/08/2015 1:28	83206
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/08/2015 1:28	83206
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Hexachlorobenzene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Pentachlorophenol	ND		750	ug/Kg	1	10/08/2015 1:28	83206
Phenanthrene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Anthracene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Carbazole	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Di-n-butylphthalate	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Fluoranthene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Pyrene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Butylbenzylphthalate	ND		370	ug/Kg	1	10/08/2015 1:28	83206
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Benzo(a)anthracene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Chrysene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Di-n-octylphthalate	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Benzo(a)pyrene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
1,1´-Biphenyl	ND		370	ug/Kg	1	10/08/2015 1:28	83206
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Acetophenone	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Aniline	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Azobenzene	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Benzidine	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Benzoic acid	ND		750	ug/Kg	1	10/08/2015 1:28	83206
Benzyl alcohol	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/08/2015 1:28	83206
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/08/2015 1:28	83206
Surrogate: Nitrobenzene-d5	71.2		35-100	%REC	1	10/08/2015 1:28	83206
Surrogate: 2-Fluorobiphenyl	66.1		45-105	%REC	1	10/08/2015 1:28	83206
Surrogate: Terphenyl-d14	85.1		30-125	%REC	1	10/08/2015 1:28	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810
Lab ID: P1467-06
Project: Barrington, RI site
Collection Date: 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	86.7		40-100	%REC	1	10/08/2015 1:28	83206
Surrogate: 2-Fluorophenol	81.1		35-105	%REC	1	10/08/2015 1:28	83206
Surrogate: 2,4,6-Tribromophenol	61.1		35-125	%REC	1	10/08/2015 1:28	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Bis(2-chloroethyl)ether	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2-Chlorophenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
1,3-Dichlorobenzene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
1,4-Dichlorobenzene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
1,2-Dichlorobenzene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2-Methylphenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
4-Methylphenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
N-Nitroso-di-n-propylamine	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Hexachloroethane	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Nitrobenzene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Isophorone	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2-Nitrophenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2,4-Dimethylphenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2,4-Dichlorophenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Naphthalene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
4-Chloroaniline	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Bis(2-chloroethoxy)methane	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Hexachlorobutadiene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2-Methylnaphthalene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Hexachlorocyclopentadiene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2,4,5-Trichlorophenol	ND		710	ug/Kg	1	10/08/2015 1:55	83206
2-Chloronaphthalene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2-Nitroaniline	ND		710	ug/Kg	1	10/08/2015 1:55	83206
Dimethylphthalate	510		350	ug/Kg	1	10/08/2015 1:55	83206
Acenaphthylene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2,6-Dinitrotoluene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
3-Nitroaniline	ND		710	ug/Kg	1	10/08/2015 1:55	83206
Acenaphthene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2,4-Dinitrophenol	ND		710	ug/Kg	1	10/08/2015 1:55	83206
4-Nitrophenol	ND		710	ug/Kg	1	10/08/2015 1:55	83206
Dibenzofuran	ND		350	ug/Kg	1	10/08/2015 1:55	83206
2,4-Dinitrotoluene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Diethylphthalate	ND		350	ug/Kg	1	10/08/2015 1:55	83206
4-Chlorophenyl-phenylether	ND		350	ug/Kg	1	10/08/2015 1:55	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
4-Nitroaniline	ND		710	ug/Kg	1	10/08/2015 1:55	83206
4,6-Dinitro-2-methylphenol	ND		710	ug/Kg	1	10/08/2015 1:55	83206
N-Nitrosodiphenylamine	ND		350	ug/Kg	1	10/08/2015 1:55	83206
4-Bromophenyl-phenylether	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Hexachlorobenzene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Pentachlorophenol	ND		710	ug/Kg	1	10/08/2015 1:55	83206
Phenanthrene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Anthracene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Carbazole	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Di-n-butylphthalate	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Fluoranthene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Pyrene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Butylbenzylphthalate	ND		350	ug/Kg	1	10/08/2015 1:55	83206
3,3´-Dichlorobenzidine	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Benzo(a)anthracene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Chrysene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Bis(2-ethylhexyl)phthalate	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Di-n-octylphthalate	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Benzo(b)fluoranthene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Benzo(k)fluoranthene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Benzo(a)pyrene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Dibenzo(a,h)anthracene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
1,1´-Biphenyl	ND		350	ug/Kg	1	10/08/2015 1:55	83206
3-Methylphenol + 4-Methylphenol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Acetophenone	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Aniline	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Azobenzene	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Benzidine	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Benzoic acid	180	J	710	ug/Kg	1	10/08/2015 1:55	83206
Benzyl alcohol	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Bis(2-chloroisopropyl)ether	ND		350	ug/Kg	1	10/08/2015 1:55	83206
N-Nitrosodimethylamine	ND		350	ug/Kg	1	10/08/2015 1:55	83206
Surrogate: Nitrobenzene-d5	73.8		35-100	%REC	1	10/08/2015 1:55	83206
Surrogate: 2-Fluorobiphenyl	71.1		45-105	%REC	1	10/08/2015 1:55	83206
Surrogate: Terphenyl-d14	85.0		30-125	%REC	1	10/08/2015 1:55	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	85.1		40-100	%REC	1	10/08/2015 1:55	83206
Surrogate: 2-Fluorophenol	80.5		35-105	%REC	1	10/08/2015 1:55	83206
Surrogate: 2,4,6-Tribromophenol	59.2		35-125	%REC	1	10/08/2015 1:55	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Bis(2-chloroethyl)ether	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2-Chlorophenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
1,3-Dichlorobenzene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
1,4-Dichlorobenzene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
1,2-Dichlorobenzene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2-Methylphenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
4-Methylphenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
N-Nitroso-di-n-propylamine	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Hexachloroethane	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Nitrobenzene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Isophorone	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2-Nitrophenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2,4-Dimethylphenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2,4-Dichlorophenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
1,2,4-Trichlorobenzene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Naphthalene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
4-Chloroaniline	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Bis(2-chloroethoxy)methane	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Hexachlorobutadiene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
4-Chloro-3-methylphenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2-Methylnaphthalene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Hexachlorocyclopentadiene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2,4,6-Trichlorophenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2,4,5-Trichlorophenol	ND		700	ug/Kg	1	10/08/2015 3:13	83206
2-Chloronaphthalene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2-Nitroaniline	ND		700	ug/Kg	1	10/08/2015 3:13	83206
Dimethylphthalate	510		340	ug/Kg	1	10/08/2015 3:13	83206
Acenaphthylene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2,6-Dinitrotoluene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
3-Nitroaniline	ND		700	ug/Kg	1	10/08/2015 3:13	83206
Acenaphthene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2,4-Dinitrophenol	ND		700	ug/Kg	1	10/08/2015 3:13	83206
4-Nitrophenol	ND		700	ug/Kg	1	10/08/2015 3:13	83206
Dibenzofuran	ND		340	ug/Kg	1	10/08/2015 3:13	83206
2,4-Dinitrotoluene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Diethylphthalate	ND		340	ug/Kg	1	10/08/2015 3:13	83206
4-Chlorophenyl-phenylether	ND		340	ug/Kg	1	10/08/2015 3:13	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
4-Nitroaniline	ND		700	ug/Kg	1	10/08/2015 3:13	83206
4,6-Dinitro-2-methylphenol	ND		700	ug/Kg	1	10/08/2015 3:13	83206
N-Nitrosodiphenylamine	ND		340	ug/Kg	1	10/08/2015 3:13	83206
4-Bromophenyl-phenylether	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Hexachlorobenzene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Pentachlorophenol	ND		700	ug/Kg	1	10/08/2015 3:13	83206
Phenanthrene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Anthracene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Carbazole	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Di-n-butylphthalate	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Fluoranthene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Pyrene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Butylbenzylphthalate	ND		340	ug/Kg	1	10/08/2015 3:13	83206
3,3´-Dichlorobenzidine	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Benzo(a)anthracene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Chrysene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Bis(2-ethylhexyl)phthalate	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Di-n-octylphthalate	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Benzo(b)fluoranthene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Benzo(k)fluoranthene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Benzo(a)pyrene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Indeno(1,2,3-cd)pyrene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Dibenzo(a,h)anthracene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Benzo(g,h,i)perylene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
1,1´-Biphenyl	ND		340	ug/Kg	1	10/08/2015 3:13	83206
3-Methylphenol + 4-Methylphenol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Acetophenone	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Aniline	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Azobenzene	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Benzidine	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Benzoic acid	82	J	700	ug/Kg	1	10/08/2015 3:13	83206
Benzyl alcohol	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Bis(2-chloroisopropyl)ether	ND		340	ug/Kg	1	10/08/2015 3:13	83206
N-Nitrosodimethylamine	ND		340	ug/Kg	1	10/08/2015 3:13	83206
Surrogate: Nitrobenzene-d5	72.8		35-100	%REC	1	10/08/2015 3:13	83206
Surrogate: 2-Fluorobiphenyl	72.0		45-105	%REC	1	10/08/2015 3:13	83206
Surrogate: Terphenyl-d14	86.9		30-125	%REC	1	10/08/2015 3:13	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507
Lab ID: P1467-08
Project: Barrington, RI site
Collection Date: 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	80.8		40-100	%REC	1	10/08/2015 3:13	83206
Surrogate: 2-Fluorophenol	78.1		35-105	%REC	1	10/08/2015 3:13	83206
Surrogate: 2,4,6-Tribromophenol	58.4		35-125	%REC	1	10/08/2015 3:13	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2-Chlorophenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2-Methylphenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Hexachloroethane	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Nitrobenzene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Isophorone	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2-Nitrophenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Naphthalene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
4-Chloroaniline	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Hexachlorobutadiene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2-Methylnaphthalene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2,4,5-Trichlorophenol	ND		750	ug/Kg	1	10/08/2015 14:18	83206
2-Chloronaphthalene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 14:18	83206
Dimethylphthalate	540		370	ug/Kg	1	10/08/2015 14:18	83206
Acenaphthylene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
3-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 14:18	83206
Acenaphthene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2,4-Dinitrophenol	ND		750	ug/Kg	1	10/08/2015 14:18	83206
4-Nitrophenol	ND		750	ug/Kg	1	10/08/2015 14:18	83206
Dibenzofuran	ND		370	ug/Kg	1	10/08/2015 14:18	83206
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Diethylphthalate	ND		370	ug/Kg	1	10/08/2015 14:18	83206
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 14:18	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
4-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 14:18	83206
4,6-Dinitro-2-methylphenol	ND		750	ug/Kg	1	10/08/2015 14:18	83206
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/08/2015 14:18	83206
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Hexachlorobenzene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Pentachlorophenol	ND		750	ug/Kg	1	10/08/2015 14:18	83206
Phenanthrene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Anthracene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Carbazole	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Di-n-butylphthalate	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Fluoranthene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Pyrene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Butylbenzylphthalate	ND		370	ug/Kg	1	10/08/2015 14:18	83206
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Benzo(a)anthracene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Chrysene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Di-n-octylphthalate	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Benzo(a)pyrene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
1,1´-Biphenyl	ND		370	ug/Kg	1	10/08/2015 14:18	83206
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Acetophenone	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Aniline	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Azobenzene	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Benzidine	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Benzoic acid	ND		750	ug/Kg	1	10/08/2015 14:18	83206
Benzyl alcohol	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/08/2015 14:18	83206
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/08/2015 14:18	83206
Surrogate: Nitrobenzene-d5	60.1		35-100	%REC	1	10/08/2015 14:18	83206
Surrogate: 2-Fluorobiphenyl	59.3		45-105	%REC	1	10/08/2015 14:18	83206
Surrogate: Terphenyl-d14	62.3		30-125	%REC	1	10/08/2015 14:18	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	86.7		40-100	%REC	1	10/08/2015 14:18	83206
Surrogate: 2-Fluorophenol	75.4		35-105	%REC	1	10/08/2015 14:18	83206
Surrogate: 2,4,6-Tribromophenol	48.5		35-125	%REC	1	10/08/2015 14:18	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Bis(2-chloroethyl)ether	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2-Chlorophenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
1,3-Dichlorobenzene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
1,4-Dichlorobenzene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
1,2-Dichlorobenzene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2-Methylphenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
4-Methylphenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
N-Nitroso-di-n-propylamine	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Hexachloroethane	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Nitrobenzene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Isophorone	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2-Nitrophenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2,4-Dimethylphenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2,4-Dichlorophenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
1,2,4-Trichlorobenzene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Naphthalene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
4-Chloroaniline	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Bis(2-chloroethoxy)methane	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Hexachlorobutadiene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
4-Chloro-3-methylphenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2-Methylnaphthalene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Hexachlorocyclopentadiene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2,4,6-Trichlorophenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2,4,5-Trichlorophenol	ND		860	ug/Kg	1	10/08/2015 14:44	83206
2-Chloronaphthalene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2-Nitroaniline	ND		860	ug/Kg	1	10/08/2015 14:44	83206
Dimethylphthalate	320	J	420	ug/Kg	1	10/08/2015 14:44	83206
Acenaphthylene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2,6-Dinitrotoluene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
3-Nitroaniline	ND		860	ug/Kg	1	10/08/2015 14:44	83206
Acenaphthene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2,4-Dinitrophenol	ND		860	ug/Kg	1	10/08/2015 14:44	83206
4-Nitrophenol	ND		860	ug/Kg	1	10/08/2015 14:44	83206
Dibenzofuran	ND		420	ug/Kg	1	10/08/2015 14:44	83206
2,4-Dinitrotoluene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Diethylphthalate	ND		420	ug/Kg	1	10/08/2015 14:44	83206
4-Chlorophenyl-phenylether	ND		420	ug/Kg	1	10/08/2015 14:44	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
4-Nitroaniline	ND		860	ug/Kg	1	10/08/2015 14:44	83206
4,6-Dinitro-2-methylphenol	ND		860	ug/Kg	1	10/08/2015 14:44	83206
N-Nitrosodiphenylamine	ND		420	ug/Kg	1	10/08/2015 14:44	83206
4-Bromophenyl-phenylether	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Hexachlorobenzene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Pentachlorophenol	ND		860	ug/Kg	1	10/08/2015 14:44	83206
Phenanthrene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Anthracene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Carbazole	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Di-n-butylphthalate	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Fluoranthene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Pyrene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Butylbenzylphthalate	ND		420	ug/Kg	1	10/08/2015 14:44	83206
3,3´-Dichlorobenzidine	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Benzo(a)anthracene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Chrysene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Bis(2-ethylhexyl)phthalate	450		420	ug/Kg	1	10/08/2015 14:44	83206
Di-n-octylphthalate	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Benzo(b)fluoranthene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Benzo(k)fluoranthene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Benzo(a)pyrene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Indeno(1,2,3-cd)pyrene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Dibenzo(a,h)anthracene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Benzo(g,h,i)perylene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
1,1´-Biphenyl	ND		420	ug/Kg	1	10/08/2015 14:44	83206
3-Methylphenol + 4-Methylphenol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Acetophenone	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Aniline	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Azobenzene	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Benzidine	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Benzoic acid	ND		860	ug/Kg	1	10/08/2015 14:44	83206
Benzyl alcohol	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Bis(2-chloroisopropyl)ether	ND		420	ug/Kg	1	10/08/2015 14:44	83206
N-Nitrosodimethylamine	ND		420	ug/Kg	1	10/08/2015 14:44	83206
Surrogate: Nitrobenzene-d5	56.5		35-100	%REC	1	10/08/2015 14:44	83206
Surrogate: 2-Fluorobiphenyl	53.6		45-105	%REC	1	10/08/2015 14:44	83206
Surrogate: Terphenyl-d14	59.4		30-125	%REC	1	10/08/2015 14:44	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315
Lab ID: P1467-10
Project: Barrington, RI site
Collection Date: 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	81.4		40-100	%REC	1	10/08/2015 14:44	83206
Surrogate: 2-Fluorophenol	69.7		35-105	%REC	1	10/08/2015 14:44	83206
Surrogate: 2,4,6-Tribromophenol	40.5		35-125	%REC	1	10/08/2015 14:44	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02 **Project:** Barrington, RI site
Lab ID: P1467-11 **Collection Date:** 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2-Chlorophenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2-Methylphenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Hexachloroethane	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Nitrobenzene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Isophorone	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2-Nitrophenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Naphthalene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
4-Chloroaniline	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Hexachlorobutadiene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2-Methylnaphthalene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2,4,5-Trichlorophenol	ND		750	ug/Kg	1	10/08/2015 4:32	83206
2-Chloronaphthalene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 4:32	83206
Dimethylphthalate	600		370	ug/Kg	1	10/08/2015 4:32	83206
Acenaphthylene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
3-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 4:32	83206
Acenaphthene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2,4-Dinitrophenol	ND		750	ug/Kg	1	10/08/2015 4:32	83206
4-Nitrophenol	ND		750	ug/Kg	1	10/08/2015 4:32	83206
Dibenzofuran	ND		370	ug/Kg	1	10/08/2015 4:32	83206
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Diethylphthalate	ND		370	ug/Kg	1	10/08/2015 4:32	83206
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 4:32	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02 **Project:** Barrington, RI site
Lab ID: P1467-11 **Collection Date:** 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
4-Nitroaniline	ND		750	ug/Kg	1	10/08/2015 4:32	83206
4,6-Dinitro-2-methylphenol	ND		750	ug/Kg	1	10/08/2015 4:32	83206
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/08/2015 4:32	83206
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Hexachlorobenzene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Pentachlorophenol	ND		750	ug/Kg	1	10/08/2015 4:32	83206
Phenanthrene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Anthracene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Carbazole	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Di-n-butylphthalate	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Fluoranthene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Pyrene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Butylbenzylphthalate	ND		370	ug/Kg	1	10/08/2015 4:32	83206
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Benzo(a)anthracene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Chrysene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Di-n-octylphthalate	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Benzo(a)pyrene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
1,1´-Biphenyl	ND		370	ug/Kg	1	10/08/2015 4:32	83206
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Acetophenone	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Aniline	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Azobenzene	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Benzidine	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Benzoic acid	180	J	750	ug/Kg	1	10/08/2015 4:32	83206
Benzyl alcohol	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/08/2015 4:32	83206
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/08/2015 4:32	83206
Surrogate: Nitrobenzene-d5	65.2		35-100	%REC	1	10/08/2015 4:32	83206
Surrogate: 2-Fluorobiphenyl	63.3		45-105	%REC	1	10/08/2015 4:32	83206
Surrogate: Terphenyl-d14	79.4		30-125	%REC	1	10/08/2015 4:32	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02
Lab ID: P1467-11
Project: Barrington, RI site
Collection Date: 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	75.3		40-100	%REC	1	10/08/2015 4:32	83206
Surrogate: 2-Fluorophenol	74.1		35-105	%REC	1	10/08/2015 4:32	83206
Surrogate: 2,4,6-Tribromophenol	54.4		35-125	%REC	1	10/08/2015 4:32	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002 **Project:** Barrington, RI site
Lab ID: P1467-12 **Collection Date:** 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Bis(2-chloroethyl)ether	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2-Chlorophenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
1,3-Dichlorobenzene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
1,4-Dichlorobenzene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
1,2-Dichlorobenzene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2-Methylphenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
4-Methylphenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
N-Nitroso-di-n-propylamine	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Hexachloroethane	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Nitrobenzene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Isophorone	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2-Nitrophenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2,4-Dimethylphenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2,4-Dichlorophenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
1,2,4-Trichlorobenzene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Naphthalene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
4-Chloroaniline	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Bis(2-chloroethoxy)methane	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Hexachlorobutadiene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
4-Chloro-3-methylphenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2-Methylnaphthalene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Hexachlorocyclopentadiene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2,4,6-Trichlorophenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2,4,5-Trichlorophenol	ND		850	ug/Kg	1	10/08/2015 15:11	83206
2-Chloronaphthalene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2-Nitroaniline	ND		850	ug/Kg	1	10/08/2015 15:11	83206
Dimethylphthalate	480		420	ug/Kg	1	10/08/2015 15:11	83206
Acenaphthylene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2,6-Dinitrotoluene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
3-Nitroaniline	ND		850	ug/Kg	1	10/08/2015 15:11	83206
Acenaphthene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2,4-Dinitrophenol	ND		850	ug/Kg	1	10/08/2015 15:11	83206
4-Nitrophenol	ND		850	ug/Kg	1	10/08/2015 15:11	83206
Dibenzofuran	ND		420	ug/Kg	1	10/08/2015 15:11	83206
2,4-Dinitrotoluene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Diethylphthalate	ND		420	ug/Kg	1	10/08/2015 15:11	83206
4-Chlorophenyl-phenylether	ND		420	ug/Kg	1	10/08/2015 15:11	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002 **Project:** Barrington, RI site
Lab ID: P1467-12 **Collection Date:** 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
4-Nitroaniline	ND		850	ug/Kg	1	10/08/2015 15:11	83206
4,6-Dinitro-2-methylphenol	ND		850	ug/Kg	1	10/08/2015 15:11	83206
N-Nitrosodiphenylamine	ND		420	ug/Kg	1	10/08/2015 15:11	83206
4-Bromophenyl-phenylether	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Hexachlorobenzene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Pentachlorophenol	ND		850	ug/Kg	1	10/08/2015 15:11	83206
Phenanthrene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Anthracene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Carbazole	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Di-n-butylphthalate	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Fluoranthene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Pyrene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Butylbenzylphthalate	ND		420	ug/Kg	1	10/08/2015 15:11	83206
3,3´-Dichlorobenzidine	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Benzo(a)anthracene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Chrysene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Bis(2-ethylhexyl)phthalate	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Di-n-octylphthalate	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Benzo(b)fluoranthene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Benzo(k)fluoranthene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Benzo(a)pyrene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Indeno(1,2,3-cd)pyrene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Dibenzo(a,h)anthracene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Benzo(g,h,i)perylene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
1,1´-Biphenyl	ND		420	ug/Kg	1	10/08/2015 15:11	83206
3-Methylphenol + 4-Methylphenol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Acetophenone	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Aniline	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Azobenzene	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Benzidine	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Benzoic acid	210	J	850	ug/Kg	1	10/08/2015 15:11	83206
Benzyl alcohol	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Bis(2-chloroisopropyl)ether	ND		420	ug/Kg	1	10/08/2015 15:11	83206
N-Nitrosodimethylamine	ND		420	ug/Kg	1	10/08/2015 15:11	83206
Surrogate: Nitrobenzene-d5	57.3		35-100	%REC	1	10/08/2015 15:11	83206
Surrogate: 2-Fluorobiphenyl	55.8		45-105	%REC	1	10/08/2015 15:11	83206
Surrogate: Terphenyl-d14	66.3		30-125	%REC	1	10/08/2015 15:11	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002
Lab ID: P1467-12
Project: Barrington, RI site
Collection Date: 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	79.6		40-100	%REC	1	10/08/2015 15:11	83206
Surrogate: 2-Fluorophenol	76.2		35-105	%REC	1	10/08/2015 15:11	83206
Surrogate: 2,4,6-Tribromophenol	49.2		35-125	%REC	1	10/08/2015 15:11	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507 **Project:** Barrington, RI site
Lab ID: P1467-13 **Collection Date:** 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Bis(2-chloroethyl)ether	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2-Chlorophenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
1,3-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
1,4-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
1,2-Dichlorobenzene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2-Methylphenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
N-Nitroso-di-n-propylamine	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Hexachloroethane	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Nitrobenzene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Isophorone	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2-Nitrophenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2,4-Dimethylphenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2,4-Dichlorophenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
1,2,4-Trichlorobenzene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Naphthalene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
4-Chloroaniline	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Bis(2-chloroethoxy)methane	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Hexachlorobutadiene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
4-Chloro-3-methylphenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2-Methylnaphthalene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Hexachlorocyclopentadiene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2,4,6-Trichlorophenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2,4,5-Trichlorophenol	ND		740	ug/Kg	1	10/08/2015 16:04	83206
2-Chloronaphthalene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 16:04	83206
Dimethylphthalate	410		370	ug/Kg	1	10/08/2015 16:04	83206
Acenaphthylene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2,6-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
3-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 16:04	83206
Acenaphthene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2,4-Dinitrophenol	ND		740	ug/Kg	1	10/08/2015 16:04	83206
4-Nitrophenol	ND		740	ug/Kg	1	10/08/2015 16:04	83206
Dibenzofuran	ND		370	ug/Kg	1	10/08/2015 16:04	83206
2,4-Dinitrotoluene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Diethylphthalate	ND		370	ug/Kg	1	10/08/2015 16:04	83206
4-Chlorophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 16:04	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507 **Project:** Barrington, RI site
Lab ID: P1467-13 **Collection Date:** 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
4-Nitroaniline	ND		740	ug/Kg	1	10/08/2015 16:04	83206
4,6-Dinitro-2-methylphenol	ND		740	ug/Kg	1	10/08/2015 16:04	83206
N-Nitrosodiphenylamine	ND		370	ug/Kg	1	10/08/2015 16:04	83206
4-Bromophenyl-phenylether	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Hexachlorobenzene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Pentachlorophenol	ND		740	ug/Kg	1	10/08/2015 16:04	83206
Phenanthrene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Anthracene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Carbazole	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Di-n-butylphthalate	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Fluoranthene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Pyrene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Butylbenzylphthalate	ND		370	ug/Kg	1	10/08/2015 16:04	83206
3,3´-Dichlorobenzidine	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Benzo(a)anthracene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Chrysene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Bis(2-ethylhexyl)phthalate	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Di-n-octylphthalate	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Benzo(b)fluoranthene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Benzo(k)fluoranthene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Benzo(a)pyrene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Indeno(1,2,3-cd)pyrene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Dibenzo(a,h)anthracene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Benzo(g,h,i)perylene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
1,1´-Biphenyl	ND		370	ug/Kg	1	10/08/2015 16:04	83206
3-Methylphenol + 4-Methylphenol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Acetophenone	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Aniline	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Azobenzene	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Benzidine	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Benzoic acid	ND		740	ug/Kg	1	10/08/2015 16:04	83206
Benzyl alcohol	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Bis(2-chloroisopropyl)ether	ND		370	ug/Kg	1	10/08/2015 16:04	83206
N-Nitrosodimethylamine	ND		370	ug/Kg	1	10/08/2015 16:04	83206
Surrogate: Nitrobenzene-d5	59.6		35-100	%REC	1	10/08/2015 16:04	83206
Surrogate: 2-Fluorobiphenyl	59.4		45-105	%REC	1	10/08/2015 16:04	83206
Surrogate: Terphenyl-d14	65.8		30-125	%REC	1	10/08/2015 16:04	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507
Lab ID: P1467-13
Project: Barrington, RI site
Collection Date: 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	85.0		40-100	%REC	1	10/08/2015 16:04	83206
Surrogate: 2-Fluorophenol	75.6		35-105	%REC	1	10/08/2015 16:04	83206
Surrogate: 2,4,6-Tribromophenol	45.6		35-125	%REC	1	10/08/2015 16:04	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002 **Project:** Barrington, RI site
Lab ID: P1467-14 **Collection Date:** 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Bis(2-chloroethyl)ether	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2-Chlorophenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
1,3-Dichlorobenzene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
1,4-Dichlorobenzene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
1,2-Dichlorobenzene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2-Methylphenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
4-Methylphenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
N-Nitroso-di-n-propylamine	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Hexachloroethane	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Nitrobenzene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Isophorone	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2-Nitrophenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2,4-Dimethylphenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2,4-Dichlorophenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
1,2,4-Trichlorobenzene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Naphthalene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
4-Chloroaniline	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Bis(2-chloroethoxy)methane	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Hexachlorobutadiene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
4-Chloro-3-methylphenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2-Methylnaphthalene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Hexachlorocyclopentadiene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2,4,6-Trichlorophenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2,4,5-Trichlorophenol	ND		810	ug/Kg	1	10/08/2015 5:50	83206
2-Chloronaphthalene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2-Nitroaniline	ND		810	ug/Kg	1	10/08/2015 5:50	83206
Dimethylphthalate	460		400	ug/Kg	1	10/08/2015 5:50	83206
Acenaphthylene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2,6-Dinitrotoluene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
3-Nitroaniline	ND		810	ug/Kg	1	10/08/2015 5:50	83206
Acenaphthene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2,4-Dinitrophenol	ND		810	ug/Kg	1	10/08/2015 5:50	83206
4-Nitrophenol	ND		810	ug/Kg	1	10/08/2015 5:50	83206
Dibenzofuran	ND		400	ug/Kg	1	10/08/2015 5:50	83206
2,4-Dinitrotoluene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Diethylphthalate	ND		400	ug/Kg	1	10/08/2015 5:50	83206
4-Chlorophenyl-phenylether	ND		400	ug/Kg	1	10/08/2015 5:50	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002 **Project:** Barrington, RI site
Lab ID: P1467-14 **Collection Date:** 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
4-Nitroaniline	ND		810	ug/Kg	1	10/08/2015 5:50	83206
4,6-Dinitro-2-methylphenol	ND		810	ug/Kg	1	10/08/2015 5:50	83206
N-Nitrosodiphenylamine	ND		400	ug/Kg	1	10/08/2015 5:50	83206
4-Bromophenyl-phenylether	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Hexachlorobenzene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Pentachlorophenol	ND		810	ug/Kg	1	10/08/2015 5:50	83206
Phenanthrene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Anthracene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Carbazole	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Di-n-butylphthalate	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Fluoranthene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Pyrene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Butylbenzylphthalate	ND		400	ug/Kg	1	10/08/2015 5:50	83206
3,3´-Dichlorobenzidine	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Benzo(a)anthracene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Chrysene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Bis(2-ethylhexyl)phthalate	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Di-n-octylphthalate	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Benzo(b)fluoranthene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Benzo(k)fluoranthene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Benzo(a)pyrene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Indeno(1,2,3-cd)pyrene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Dibenzo(a,h)anthracene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Benzo(g,h,i)perylene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
1,1´-Biphenyl	ND		400	ug/Kg	1	10/08/2015 5:50	83206
3-Methylphenol + 4-Methylphenol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Acetophenone	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Aniline	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Azobenzene	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Benzidine	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Benzoic acid	140	J	810	ug/Kg	1	10/08/2015 5:50	83206
Benzyl alcohol	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Bis(2-chloroisopropyl)ether	ND		400	ug/Kg	1	10/08/2015 5:50	83206
N-Nitrosodimethylamine	ND		400	ug/Kg	1	10/08/2015 5:50	83206
Surrogate: Nitrobenzene-d5	65.1		35-100	%REC	1	10/08/2015 5:50	83206
Surrogate: 2-Fluorobiphenyl	64.1		45-105	%REC	1	10/08/2015 5:50	83206
Surrogate: Terphenyl-d14	89.5		30-125	%REC	1	10/08/2015 5:50	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002
Lab ID: P1467-14
Project: Barrington, RI site
Collection Date: 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	79.9		40-100	%REC	1	10/08/2015 5:50	83206
Surrogate: 2-Fluorophenol	75.3		35-105	%REC	1	10/08/2015 5:50	83206
Surrogate: 2,4,6-Tribromophenol	67.9		35-125	%REC	1	10/08/2015 5:50	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012 **Project:** Barrington, RI site
Lab ID: P1467-15 **Collection Date:** 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Bis(2-chloroethyl)ether	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2-Chlorophenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
1,3-Dichlorobenzene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
1,4-Dichlorobenzene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
1,2-Dichlorobenzene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2-Methylphenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
4-Methylphenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
N-Nitroso-di-n-propylamine	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Hexachloroethane	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Nitrobenzene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Isophorone	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2-Nitrophenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2,4-Dimethylphenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2,4-Dichlorophenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
1,2,4-Trichlorobenzene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Naphthalene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
4-Chloroaniline	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Bis(2-chloroethoxy)methane	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Hexachlorobutadiene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
4-Chloro-3-methylphenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2-Methylnaphthalene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Hexachlorocyclopentadiene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2,4,6-Trichlorophenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2,4,5-Trichlorophenol	ND		780	ug/Kg	1	10/08/2015 16:31	83206
2-Chloronaphthalene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2-Nitroaniline	ND		780	ug/Kg	1	10/08/2015 16:31	83206
Dimethylphthalate	350	J	390	ug/Kg	1	10/08/2015 16:31	83206
Acenaphthylene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2,6-Dinitrotoluene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
3-Nitroaniline	ND		780	ug/Kg	1	10/08/2015 16:31	83206
Acenaphthene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2,4-Dinitrophenol	ND		780	ug/Kg	1	10/08/2015 16:31	83206
4-Nitrophenol	ND		780	ug/Kg	1	10/08/2015 16:31	83206
Dibenzofuran	ND		390	ug/Kg	1	10/08/2015 16:31	83206
2,4-Dinitrotoluene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Diethylphthalate	ND		390	ug/Kg	1	10/08/2015 16:31	83206
4-Chlorophenyl-phenylether	ND		390	ug/Kg	1	10/08/2015 16:31	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012 **Project:** Barrington, RI site
Lab ID: P1467-15 **Collection Date:** 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
4-Nitroaniline	ND		780	ug/Kg	1	10/08/2015 16:31	83206
4,6-Dinitro-2-methylphenol	ND		780	ug/Kg	1	10/08/2015 16:31	83206
N-Nitrosodiphenylamine	ND		390	ug/Kg	1	10/08/2015 16:31	83206
4-Bromophenyl-phenylether	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Hexachlorobenzene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Pentachlorophenol	ND		780	ug/Kg	1	10/08/2015 16:31	83206
Phenanthrene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Anthracene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Carbazole	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Di-n-butylphthalate	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Fluoranthene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Pyrene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Butylbenzylphthalate	ND		390	ug/Kg	1	10/08/2015 16:31	83206
3,3´-Dichlorobenzidine	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Benzo(a)anthracene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Chrysene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Bis(2-ethylhexyl)phthalate	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Di-n-octylphthalate	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Benzo(b)fluoranthene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Benzo(k)fluoranthene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Benzo(a)pyrene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Indeno(1,2,3-cd)pyrene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Dibenzo(a,h)anthracene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Benzo(g,h,i)perylene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
1,1´-Biphenyl	ND		390	ug/Kg	1	10/08/2015 16:31	83206
3-Methylphenol + 4-Methylphenol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Acetophenone	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Aniline	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Azobenzene	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Benzidine	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Benzoic acid	ND		780	ug/Kg	1	10/08/2015 16:31	83206
Benzyl alcohol	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Bis(2-chloroisopropyl)ether	ND		390	ug/Kg	1	10/08/2015 16:31	83206
N-Nitrosodimethylamine	ND		390	ug/Kg	1	10/08/2015 16:31	83206
Surrogate: Nitrobenzene-d5	67.2		35-100	%REC	1	10/08/2015 16:31	83206
Surrogate: 2-Fluorobiphenyl	62.6		45-105	%REC	1	10/08/2015 16:31	83206
Surrogate: Terphenyl-d14	70.1		30-125	%REC	1	10/08/2015 16:31	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012
Lab ID: P1467-15

Project: Barrington, RI site
Collection Date: 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	87.1		40-100	%REC	1	10/08/2015 16:31	83206
Surrogate: 2-Fluorophenol	83.0		35-105	%REC	1	10/08/2015 16:31	83206
Surrogate: 2,4,6-Tribromophenol	51.1		35-125	%REC	1	10/08/2015 16:31	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Bis(2-chloroethyl)ether	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2-Chlorophenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
1,3-Dichlorobenzene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
1,4-Dichlorobenzene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
1,2-Dichlorobenzene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2-Methylphenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
4-Methylphenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
N-Nitroso-di-n-propylamine	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Hexachloroethane	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Nitrobenzene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Isophorone	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2-Nitrophenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2,4-Dimethylphenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2,4-Dichlorophenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Naphthalene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
4-Chloroaniline	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Bis(2-chloroethoxy)methane	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Hexachlorobutadiene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2-Methylnaphthalene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Hexachlorocyclopentadiene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2,4,5-Trichlorophenol	ND		710	ug/Kg	1	10/08/2015 16:57	83206
2-Chloronaphthalene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2-Nitroaniline	ND		710	ug/Kg	1	10/08/2015 16:57	83206
Dimethylphthalate	290	J	350	ug/Kg	1	10/08/2015 16:57	83206
Acenaphthylene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2,6-Dinitrotoluene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
3-Nitroaniline	ND		710	ug/Kg	1	10/08/2015 16:57	83206
Acenaphthene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2,4-Dinitrophenol	ND		710	ug/Kg	1	10/08/2015 16:57	83206
4-Nitrophenol	ND		710	ug/Kg	1	10/08/2015 16:57	83206
Dibenzofuran	ND		350	ug/Kg	1	10/08/2015 16:57	83206
2,4-Dinitrotoluene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Diethylphthalate	ND		350	ug/Kg	1	10/08/2015 16:57	83206
4-Chlorophenyl-phenylether	ND		350	ug/Kg	1	10/08/2015 16:57	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
4-Nitroaniline	ND		710	ug/Kg	1	10/08/2015 16:57	83206
4,6-Dinitro-2-methylphenol	ND		710	ug/Kg	1	10/08/2015 16:57	83206
N-Nitrosodiphenylamine	ND		350	ug/Kg	1	10/08/2015 16:57	83206
4-Bromophenyl-phenylether	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Hexachlorobenzene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Pentachlorophenol	ND		710	ug/Kg	1	10/08/2015 16:57	83206
Phenanthrene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Anthracene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Carbazole	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Di-n-butylphthalate	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Fluoranthene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Pyrene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Butylbenzylphthalate	ND		350	ug/Kg	1	10/08/2015 16:57	83206
3,3´-Dichlorobenzidine	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Benzo(a)anthracene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Chrysene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Bis(2-ethylhexyl)phthalate	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Di-n-octylphthalate	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Benzo(b)fluoranthene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Benzo(k)fluoranthene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Benzo(a)pyrene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Dibenzo(a,h)anthracene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
1,1´-Biphenyl	ND		350	ug/Kg	1	10/08/2015 16:57	83206
3-Methylphenol + 4-Methylphenol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Acetophenone	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Aniline	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Azobenzene	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Benzidine	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Benzoic acid	130	J	710	ug/Kg	1	10/08/2015 16:57	83206
Benzyl alcohol	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Bis(2-chloroisopropyl)ether	ND		350	ug/Kg	1	10/08/2015 16:57	83206
N-Nitrosodimethylamine	ND		350	ug/Kg	1	10/08/2015 16:57	83206
Surrogate: Nitrobenzene-d5	58.9		35-100	%REC	1	10/08/2015 16:57	83206
Surrogate: 2-Fluorobiphenyl	64.7		45-105	%REC	1	10/08/2015 16:57	83206
Surrogate: Terphenyl-d14	73.2		30-125	%REC	1	10/08/2015 16:57	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	86.2		40-100	%REC	1	10/08/2015 16:57	83206
Surrogate: 2-Fluorophenol	78.9		35-105	%REC	1	10/08/2015 16:57	83206
Surrogate: 2,4,6-Tribromophenol	44.6		35-125	%REC	1	10/08/2015 16:57	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Bis(2-chloroethyl)ether	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2-Chlorophenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
1,3-Dichlorobenzene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
1,4-Dichlorobenzene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
1,2-Dichlorobenzene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2-Methylphenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
4-Methylphenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
N-Nitroso-di-n-propylamine	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Hexachloroethane	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Nitrobenzene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Isophorone	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2-Nitrophenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2,4-Dimethylphenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2,4-Dichlorophenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
1,2,4-Trichlorobenzene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Naphthalene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
4-Chloroaniline	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Bis(2-chloroethoxy)methane	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Hexachlorobutadiene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
4-Chloro-3-methylphenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2-Methylnaphthalene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Hexachlorocyclopentadiene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2,4,6-Trichlorophenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2,4,5-Trichlorophenol	ND		730	ug/Kg	1	10/08/2015 8:01	83206
2-Chloronaphthalene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2-Nitroaniline	ND		730	ug/Kg	1	10/08/2015 8:01	83206
Dimethylphthalate	320	J	360	ug/Kg	1	10/08/2015 8:01	83206
Acenaphthylene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2,6-Dinitrotoluene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
3-Nitroaniline	ND		730	ug/Kg	1	10/08/2015 8:01	83206
Acenaphthene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2,4-Dinitrophenol	ND		730	ug/Kg	1	10/08/2015 8:01	83206
4-Nitrophenol	ND		730	ug/Kg	1	10/08/2015 8:01	83206
Dibenzofuran	ND		360	ug/Kg	1	10/08/2015 8:01	83206
2,4-Dinitrotoluene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Diethylphthalate	ND		360	ug/Kg	1	10/08/2015 8:01	83206
4-Chlorophenyl-phenylether	ND		360	ug/Kg	1	10/08/2015 8:01	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
4-Nitroaniline	ND		730	ug/Kg	1	10/08/2015 8:01	83206
4,6-Dinitro-2-methylphenol	ND		730	ug/Kg	1	10/08/2015 8:01	83206
N-Nitrosodiphenylamine	ND		360	ug/Kg	1	10/08/2015 8:01	83206
4-Bromophenyl-phenylether	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Hexachlorobenzene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Pentachlorophenol	ND		730	ug/Kg	1	10/08/2015 8:01	83206
Phenanthrene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Anthracene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Carbazole	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Di-n-butylphthalate	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Fluoranthene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Pyrene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Butylbenzylphthalate	ND		360	ug/Kg	1	10/08/2015 8:01	83206
3,3´-Dichlorobenzidine	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Benzo(a)anthracene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Chrysene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Bis(2-ethylhexyl)phthalate	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Di-n-octylphthalate	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Benzo(b)fluoranthene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Benzo(k)fluoranthene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Benzo(a)pyrene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Indeno(1,2,3-cd)pyrene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Dibenzo(a,h)anthracene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Benzo(g,h,i)perylene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
1,1´-Biphenyl	ND		360	ug/Kg	1	10/08/2015 8:01	83206
3-Methylphenol + 4-Methylphenol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Acetophenone	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Aniline	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Azobenzene	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Benzidine	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Benzoic acid	130	J	730	ug/Kg	1	10/08/2015 8:01	83206
Benzyl alcohol	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Bis(2-chloroisopropyl)ether	ND		360	ug/Kg	1	10/08/2015 8:01	83206
N-Nitrosodimethylamine	ND		360	ug/Kg	1	10/08/2015 8:01	83206
Surrogate: Nitrobenzene-d5	69.0		35-100	%REC	1	10/08/2015 8:01	83206
Surrogate: 2-Fluorobiphenyl	65.7		45-105	%REC	1	10/08/2015 8:01	83206
Surrogate: Terphenyl-d14	84.4		30-125	%REC	1	10/08/2015 8:01	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810
Lab ID: P1467-17
Project: Barrington, RI site
Collection Date: 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	78.3		40-100	%REC	1	10/08/2015 8:01	83206
Surrogate: 2-Fluorophenol	77.3		35-105	%REC	1	10/08/2015 8:01	83206
Surrogate: 2,4,6-Tribromophenol	59.6		35-125	%REC	1	10/08/2015 8:01	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Bis(2-chloroethyl)ether	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2-Chlorophenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
1,3-Dichlorobenzene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
1,4-Dichlorobenzene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
1,2-Dichlorobenzene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2-Methylphenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
4-Methylphenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
N-Nitroso-di-n-propylamine	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Hexachloroethane	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Nitrobenzene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Isophorone	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2-Nitrophenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2,4-Dimethylphenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2,4-Dichlorophenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
1,2,4-Trichlorobenzene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Naphthalene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
4-Chloroaniline	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Bis(2-chloroethoxy)methane	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Hexachlorobutadiene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
4-Chloro-3-methylphenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2-Methylnaphthalene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Hexachlorocyclopentadiene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2,4,6-Trichlorophenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2,4,5-Trichlorophenol	ND		790	ug/Kg	1	10/08/2015 17:24	83206
2-Chloronaphthalene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2-Nitroaniline	ND		790	ug/Kg	1	10/08/2015 17:24	83206
Dimethylphthalate	260	J	390	ug/Kg	1	10/08/2015 17:24	83206
Acenaphthylene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2,6-Dinitrotoluene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
3-Nitroaniline	ND		790	ug/Kg	1	10/08/2015 17:24	83206
Acenaphthene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2,4-Dinitrophenol	ND		790	ug/Kg	1	10/08/2015 17:24	83206
4-Nitrophenol	ND		790	ug/Kg	1	10/08/2015 17:24	83206
Dibenzofuran	ND		390	ug/Kg	1	10/08/2015 17:24	83206
2,4-Dinitrotoluene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Diethylphthalate	ND		390	ug/Kg	1	10/08/2015 17:24	83206
4-Chlorophenyl-phenylether	ND		390	ug/Kg	1	10/08/2015 17:24	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
4-Nitroaniline	ND		790	ug/Kg	1	10/08/2015 17:24	83206
4,6-Dinitro-2-methylphenol	ND		790	ug/Kg	1	10/08/2015 17:24	83206
N-Nitrosodiphenylamine	ND		390	ug/Kg	1	10/08/2015 17:24	83206
4-Bromophenyl-phenylether	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Hexachlorobenzene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Pentachlorophenol	ND		790	ug/Kg	1	10/08/2015 17:24	83206
Phenanthrene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Anthracene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Carbazole	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Di-n-butylphthalate	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Fluoranthene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Pyrene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Butylbenzylphthalate	ND		390	ug/Kg	1	10/08/2015 17:24	83206
3,3´-Dichlorobenzidine	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Benzo(a)anthracene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Chrysene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Bis(2-ethylhexyl)phthalate	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Di-n-octylphthalate	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Benzo(b)fluoranthene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Benzo(k)fluoranthene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Benzo(a)pyrene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Indeno(1,2,3-cd)pyrene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Dibenzo(a,h)anthracene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Benzo(g,h,i)perylene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
1,1´-Biphenyl	ND		390	ug/Kg	1	10/08/2015 17:24	83206
3-Methylphenol + 4-Methylphenol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Acetophenone	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Aniline	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Azobenzene	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Benzidine	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Benzoic acid	ND		790	ug/Kg	1	10/08/2015 17:24	83206
Benzyl alcohol	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Bis(2-chloroisopropyl)ether	ND		390	ug/Kg	1	10/08/2015 17:24	83206
N-Nitrosodimethylamine	ND		390	ug/Kg	1	10/08/2015 17:24	83206
Surrogate: Nitrobenzene-d5	59.0		35-100	%REC	1	10/08/2015 17:24	83206
Surrogate: 2-Fluorobiphenyl	56.8		45-105	%REC	1	10/08/2015 17:24	83206
Surrogate: Terphenyl-d14	65.0		30-125	%REC	1	10/08/2015 17:24	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	85.0		40-100	%REC	1	10/08/2015 17:24	83206
Surrogate: 2-Fluorophenol	72.7		35-105	%REC	1	10/08/2015 17:24	83206
Surrogate: 2,4,6-Tribromophenol	46.8		35-125	%REC	1	10/08/2015 17:24	83206

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507 **Project:** Barrington, RI site
Lab ID: P1467-19 **Collection Date:** 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Bis(2-chloroethyl)ether	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2-Chlorophenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
1,3-Dichlorobenzene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
1,4-Dichlorobenzene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
1,2-Dichlorobenzene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2-Methylphenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
4-Methylphenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
N-Nitroso-di-n-propylamine	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Hexachloroethane	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Nitrobenzene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Isophorone	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2-Nitrophenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2,4-Dimethylphenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2,4-Dichlorophenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
1,2,4-Trichlorobenzene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Naphthalene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
4-Chloroaniline	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Bis(2-chloroethoxy)methane	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Hexachlorobutadiene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
4-Chloro-3-methylphenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2-Methylnaphthalene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Hexachlorocyclopentadiene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2,4,6-Trichlorophenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2,4,5-Trichlorophenol	ND		710	ug/Kg	1	10/07/2015 18:52	83207
2-Chloronaphthalene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2-Nitroaniline	ND		710	ug/Kg	1	10/07/2015 18:52	83207
Dimethylphthalate	320	J	350	ug/Kg	1	10/07/2015 18:52	83207
Acenaphthylene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2,6-Dinitrotoluene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
3-Nitroaniline	ND		710	ug/Kg	1	10/07/2015 18:52	83207
Acenaphthene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2,4-Dinitrophenol	ND		710	ug/Kg	1	10/07/2015 18:52	83207
4-Nitrophenol	ND		710	ug/Kg	1	10/07/2015 18:52	83207
Dibenzofuran	ND		350	ug/Kg	1	10/07/2015 18:52	83207
2,4-Dinitrotoluene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Diethylphthalate	ND		350	ug/Kg	1	10/07/2015 18:52	83207
4-Chlorophenyl-phenylether	ND		350	ug/Kg	1	10/07/2015 18:52	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507 **Project:** Barrington, RI site
Lab ID: P1467-19 **Collection Date:** 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
4-Nitroaniline	ND		710	ug/Kg	1	10/07/2015 18:52	83207
4,6-Dinitro-2-methylphenol	ND		710	ug/Kg	1	10/07/2015 18:52	83207
N-Nitrosodiphenylamine	ND		350	ug/Kg	1	10/07/2015 18:52	83207
4-Bromophenyl-phenylether	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Hexachlorobenzene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Pentachlorophenol	ND		710	ug/Kg	1	10/07/2015 18:52	83207
Phenanthrene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Anthracene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Carbazole	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Di-n-butylphthalate	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Fluoranthene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Pyrene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Butylbenzylphthalate	ND		350	ug/Kg	1	10/07/2015 18:52	83207
3,3´-Dichlorobenzidine	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Benzo(a)anthracene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Chrysene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Bis(2-ethylhexyl)phthalate	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Di-n-octylphthalate	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Benzo(b)fluoranthene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Benzo(k)fluoranthene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Benzo(a)pyrene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Indeno(1,2,3-cd)pyrene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Dibenzo(a,h)anthracene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Benzo(g,h,i)perylene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
1,1´-Biphenyl	ND		350	ug/Kg	1	10/07/2015 18:52	83207
3-Methylphenol + 4-Methylphenol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Acetophenone	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Aniline	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Azobenzene	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Benzidine	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Benzoic acid	89	J	710	ug/Kg	1	10/07/2015 18:52	83207
Benzyl alcohol	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Bis(2-chloroisopropyl)ether	ND		350	ug/Kg	1	10/07/2015 18:52	83207
N-Nitrosodimethylamine	ND		350	ug/Kg	1	10/07/2015 18:52	83207
Surrogate: Nitrobenzene-d5	74.8		35-100	%REC	1	10/07/2015 18:52	83207
Surrogate: 2-Fluorobiphenyl	71.0		45-105	%REC	1	10/07/2015 18:52	83207
Surrogate: Terphenyl-d14	90.3		30-125	%REC	1	10/07/2015 18:52	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507
Lab ID: P1467-19
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	84.5		40-100	%REC	1	10/07/2015 18:52	83207
Surrogate: 2-Fluorophenol	84.3		35-105	%REC	1	10/07/2015 18:52	83207
Surrogate: 2,4,6-Tribromophenol	63.7		35-125	%REC	1	10/07/2015 18:52	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Bis(2-chloroethyl)ether	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2-Chlorophenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
1,3-Dichlorobenzene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
1,4-Dichlorobenzene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
1,2-Dichlorobenzene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2-Methylphenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
4-Methylphenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
N-Nitroso-di-n-propylamine	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Hexachloroethane	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Nitrobenzene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Isophorone	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2-Nitrophenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2,4-Dimethylphenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2,4-Dichlorophenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
1,2,4-Trichlorobenzene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Naphthalene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
4-Chloroaniline	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Bis(2-chloroethoxy)methane	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Hexachlorobutadiene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
4-Chloro-3-methylphenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2-Methylnaphthalene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Hexachlorocyclopentadiene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2,4,6-Trichlorophenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2,4,5-Trichlorophenol	ND		690	ug/Kg	1	10/07/2015 19:18	83207
2-Chloronaphthalene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2-Nitroaniline	ND		690	ug/Kg	1	10/07/2015 19:18	83207
Dimethylphthalate	370		340	ug/Kg	1	10/07/2015 19:18	83207
Acenaphthylene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2,6-Dinitrotoluene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
3-Nitroaniline	ND		690	ug/Kg	1	10/07/2015 19:18	83207
Acenaphthene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2,4-Dinitrophenol	ND		690	ug/Kg	1	10/07/2015 19:18	83207
4-Nitrophenol	ND		690	ug/Kg	1	10/07/2015 19:18	83207
Dibenzofuran	ND		340	ug/Kg	1	10/07/2015 19:18	83207
2,4-Dinitrotoluene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Diethylphthalate	ND		340	ug/Kg	1	10/07/2015 19:18	83207
4-Chlorophenyl-phenylether	ND		340	ug/Kg	1	10/07/2015 19:18	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
4-Nitroaniline	ND		690	ug/Kg	1	10/07/2015 19:18	83207
4,6-Dinitro-2-methylphenol	ND		690	ug/Kg	1	10/07/2015 19:18	83207
N-Nitrosodiphenylamine	ND		340	ug/Kg	1	10/07/2015 19:18	83207
4-Bromophenyl-phenylether	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Hexachlorobenzene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Pentachlorophenol	ND		690	ug/Kg	1	10/07/2015 19:18	83207
Phenanthrene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Anthracene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Carbazole	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Di-n-butylphthalate	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Fluoranthene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Pyrene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Butylbenzylphthalate	ND		340	ug/Kg	1	10/07/2015 19:18	83207
3,3´-Dichlorobenzidine	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Benzo(a)anthracene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Chrysene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Bis(2-ethylhexyl)phthalate	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Di-n-octylphthalate	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Benzo(b)fluoranthene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Benzo(k)fluoranthene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Benzo(a)pyrene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Indeno(1,2,3-cd)pyrene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Dibenzo(a,h)anthracene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Benzo(g,h,i)perylene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
1,1´-Biphenyl	ND		340	ug/Kg	1	10/07/2015 19:18	83207
3-Methylphenol + 4-Methylphenol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Acetophenone	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Aniline	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Azobenzene	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Benzidine	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Benzoic acid	110	J	690	ug/Kg	1	10/07/2015 19:18	83207
Benzyl alcohol	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Bis(2-chloroisopropyl)ether	ND		340	ug/Kg	1	10/07/2015 19:18	83207
N-Nitrosodimethylamine	ND		340	ug/Kg	1	10/07/2015 19:18	83207
Surrogate: Nitrobenzene-d5	65.1		35-100	%REC	1	10/07/2015 19:18	83207
Surrogate: 2-Fluorobiphenyl	62.5		45-105	%REC	1	10/07/2015 19:18	83207
Surrogate: Terphenyl-d14	77.8		30-125	%REC	1	10/07/2015 19:18	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	74.2		40-100	%REC	1	10/07/2015 19:18	83207
Surrogate: 2-Fluorophenol	72.3		35-105	%REC	1	10/07/2015 19:18	83207
Surrogate: 2,4,6-Tribromophenol	53.2		35-125	%REC	1	10/07/2015 19:18	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01 **Project:** Barrington, RI site
Lab ID: P1467-21 **Collection Date:** 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Bis(2-chloroethyl)ether	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2-Chlorophenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
1,3-Dichlorobenzene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
1,4-Dichlorobenzene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
1,2-Dichlorobenzene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2-Methylphenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
4-Methylphenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
N-Nitroso-di-n-propylamine	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Hexachloroethane	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Nitrobenzene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Isophorone	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2-Nitrophenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2,4-Dimethylphenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2,4-Dichlorophenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
1,2,4-Trichlorobenzene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Naphthalene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
4-Chloroaniline	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Bis(2-chloroethoxy)methane	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Hexachlorobutadiene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
4-Chloro-3-methylphenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2-Methylnaphthalene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Hexachlorocyclopentadiene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2,4,6-Trichlorophenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2,4,5-Trichlorophenol	ND		680	ug/Kg	1	10/07/2015 19:45	83207
2-Chloronaphthalene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2-Nitroaniline	ND		680	ug/Kg	1	10/07/2015 19:45	83207
Dimethylphthalate	280	J	330	ug/Kg	1	10/07/2015 19:45	83207
Acenaphthylene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2,6-Dinitrotoluene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
3-Nitroaniline	ND		680	ug/Kg	1	10/07/2015 19:45	83207
Acenaphthene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2,4-Dinitrophenol	ND		680	ug/Kg	1	10/07/2015 19:45	83207
4-Nitrophenol	ND		680	ug/Kg	1	10/07/2015 19:45	83207
Dibenzofuran	ND		330	ug/Kg	1	10/07/2015 19:45	83207
2,4-Dinitrotoluene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Diethylphthalate	ND		330	ug/Kg	1	10/07/2015 19:45	83207
4-Chlorophenyl-phenylether	ND		330	ug/Kg	1	10/07/2015 19:45	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01 **Project:** Barrington, RI site
Lab ID: P1467-21 **Collection Date:** 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
4-Nitroaniline	ND		680	ug/Kg	1	10/07/2015 19:45	83207
4,6-Dinitro-2-methylphenol	ND		680	ug/Kg	1	10/07/2015 19:45	83207
N-Nitrosodiphenylamine	ND		330	ug/Kg	1	10/07/2015 19:45	83207
4-Bromophenyl-phenylether	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Hexachlorobenzene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Pentachlorophenol	ND		680	ug/Kg	1	10/07/2015 19:45	83207
Phenanthrene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Anthracene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Carbazole	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Di-n-butylphthalate	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Fluoranthene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Pyrene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Butylbenzylphthalate	ND		330	ug/Kg	1	10/07/2015 19:45	83207
3,3´-Dichlorobenzidine	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Benzo(a)anthracene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Chrysene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Bis(2-ethylhexyl)phthalate	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Di-n-octylphthalate	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Benzo(b)fluoranthene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Benzo(k)fluoranthene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Benzo(a)pyrene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Indeno(1,2,3-cd)pyrene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Dibenzo(a,h)anthracene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Benzo(g,h,i)perylene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
1,1´-Biphenyl	ND		330	ug/Kg	1	10/07/2015 19:45	83207
3-Methylphenol + 4-Methylphenol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Acetophenone	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Aniline	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Azobenzene	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Benzidine	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Benzoic acid	ND		680	ug/Kg	1	10/07/2015 19:45	83207
Benzyl alcohol	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Bis(2-chloroisopropyl)ether	ND		330	ug/Kg	1	10/07/2015 19:45	83207
N-Nitrosodimethylamine	ND		330	ug/Kg	1	10/07/2015 19:45	83207
Surrogate: Nitrobenzene-d5	70.2		35-100	%REC	1	10/07/2015 19:45	83207
Surrogate: 2-Fluorobiphenyl	63.1		45-105	%REC	1	10/07/2015 19:45	83207
Surrogate: Terphenyl-d14	76.2		30-125	%REC	1	10/07/2015 19:45	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01
Lab ID: P1467-21
Project: Barrington, RI site
Collection Date: 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	80.1		40-100	%REC	1	10/07/2015 19:45	83207
Surrogate: 2-Fluorophenol	76.3		35-105	%REC	1	10/07/2015 19:45	83207
Surrogate: 2,4,6-Tribromophenol	56.3		35-125	%REC	1	10/07/2015 19:45	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709 **Project:** Barrington, RI site
Lab ID: P1467-22 **Collection Date:** 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Phenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Bis(2-chloroethyl)ether	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2-Chlorophenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
1,3-Dichlorobenzene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
1,4-Dichlorobenzene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
1,2-Dichlorobenzene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2-Methylphenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
4-Methylphenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
N-Nitroso-di-n-propylamine	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Hexachloroethane	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Nitrobenzene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Isophorone	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2-Nitrophenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2,4-Dimethylphenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2,4-Dichlorophenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
1,2,4-Trichlorobenzene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Naphthalene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
4-Chloroaniline	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Bis(2-chloroethoxy)methane	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Hexachlorobutadiene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
4-Chloro-3-methylphenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2-Methylnaphthalene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Hexachlorocyclopentadiene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2,4,6-Trichlorophenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2,4,5-Trichlorophenol	ND		760	ug/Kg	1	10/07/2015 20:11	83207
2-Chloronaphthalene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2-Nitroaniline	ND		760	ug/Kg	1	10/07/2015 20:11	83207
Dimethylphthalate	360	J	380	ug/Kg	1	10/07/2015 20:11	83207
Acenaphthylene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2,6-Dinitrotoluene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
3-Nitroaniline	ND		760	ug/Kg	1	10/07/2015 20:11	83207
Acenaphthene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2,4-Dinitrophenol	ND		760	ug/Kg	1	10/07/2015 20:11	83207
4-Nitrophenol	ND		760	ug/Kg	1	10/07/2015 20:11	83207
Dibenzofuran	ND		380	ug/Kg	1	10/07/2015 20:11	83207
2,4-Dinitrotoluene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Diethylphthalate	ND		380	ug/Kg	1	10/07/2015 20:11	83207
4-Chlorophenyl-phenylether	ND		380	ug/Kg	1	10/07/2015 20:11	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709 **Project:** Barrington, RI site
Lab ID: P1467-22 **Collection Date:** 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Fluorene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
4-Nitroaniline	ND		760	ug/Kg	1	10/07/2015 20:11	83207
4,6-Dinitro-2-methylphenol	ND		760	ug/Kg	1	10/07/2015 20:11	83207
N-Nitrosodiphenylamine	ND		380	ug/Kg	1	10/07/2015 20:11	83207
4-Bromophenyl-phenylether	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Hexachlorobenzene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Pentachlorophenol	ND		760	ug/Kg	1	10/07/2015 20:11	83207
Phenanthrene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Anthracene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Carbazole	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Di-n-butylphthalate	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Fluoranthene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Pyrene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Butylbenzylphthalate	ND		380	ug/Kg	1	10/07/2015 20:11	83207
3,3´-Dichlorobenzidine	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Benzo(a)anthracene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Chrysene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Bis(2-ethylhexyl)phthalate	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Di-n-octylphthalate	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Benzo(b)fluoranthene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Benzo(k)fluoranthene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Benzo(a)pyrene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Indeno(1,2,3-cd)pyrene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Dibenzo(a,h)anthracene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Benzo(g,h,i)perylene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
1,1´-Biphenyl	ND		380	ug/Kg	1	10/07/2015 20:11	83207
3-Methylphenol + 4-Methylphenol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Acetophenone	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Aniline	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Azobenzene	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Benzidine	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Benzoic acid	110	J	760	ug/Kg	1	10/07/2015 20:11	83207
Benzyl alcohol	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Bis(2-chloroisopropyl)ether	ND		380	ug/Kg	1	10/07/2015 20:11	83207
N-Nitrosodimethylamine	ND		380	ug/Kg	1	10/07/2015 20:11	83207
Surrogate: Nitrobenzene-d5	67.7		35-100	%REC	1	10/07/2015 20:11	83207
Surrogate: 2-Fluorobiphenyl	64.7		45-105	%REC	1	10/07/2015 20:11	83207
Surrogate: Terphenyl-d14	82.1		30-125	%REC	1	10/07/2015 20:11	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709
Lab ID: P1467-22
Project: Barrington, RI site
Collection Date: 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8270D -- SVOA by GC-MS							**SW8270_S**
Surrogate: Phenol-d5	76.1		40-100	%REC	1	10/07/2015 20:11	83207
Surrogate: 2-Fluorophenol	74.9		35-105	%REC	1	10/07/2015 20:11	83207
Surrogate: 2,4,6-Tribromophenol	59.5		35-125	%REC	1	10/07/2015 20:11	83207

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83206** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**

Client ID: **MB-83206** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 15:37** SeqNo: **2314988**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	37	330									
Bis(2-chloroethyl)ether	ND	42	330									
2-Chlorophenol	ND	41	330									
1,3-Dichlorobenzene	ND	40	330									
1,4-Dichlorobenzene	ND	36	330									
1,2-Dichlorobenzene	ND	42	330									
2-Methylphenol	ND	38	330									
4-Methylphenol	ND	35	330									
N-Nitroso-di-n-propylamine	ND	32	330									
Hexachloroethane	ND	35	330									
Nitrobenzene	ND	38	330									
Isophorone	ND	34	330									
2-Nitrophenol	ND	36	330									
2,4-Dimethylphenol	ND	36	330									
2,4-Dichlorophenol	ND	38	330									
1,2,4-Trichlorobenzene	ND	46	330									
Naphthalene	ND	41	330									
4-Chloroaniline	ND	24	330									
Bis(2-chloroethoxy)methane	ND	39	330									
Hexachlorobutadiene	ND	45	330									
4-Chloro-3-methylphenol	ND	26	330									
2-Methylnaphthalene	ND	42	330									
Hexachlorocyclopentadiene	ND	96	330									
2,4,6-Trichlorophenol	ND	39	330									
2,4,5-Trichlorophenol	ND	37	670									
2-Chloronaphthalene	ND	38	330									
2-Nitroaniline	ND	21	670									
Dimethylphthalate	ND	30	330									
Acenaphthylene	ND	37	330									
2,6-Dinitrotoluene	ND	28	330									
3-Nitroaniline	ND	24	670									
Acenaphthene	ND	39	330									
2,4-Dinitrophenol	ND	180	670									
4-Nitrophenol	ND	22	670									
Dibenzofuran	ND	36	330									
2,4-Dinitrotoluene	ND	23	330									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83206** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**
Client ID: **MB-83206** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 15:37** SeqNo: **2314988**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diethylphthalate	ND	24	330									
4-Chlorophenyl-phenylether	ND	40	330									
Fluorene	ND	33	330									
4-Nitroaniline	ND	25	670									
4,6-Dinitro-2-methylphenol	ND	25	670									
N-Nitrosodiphenylamine	ND	29	330									
4-Bromophenyl-phenylether	ND	32	330									
Hexachlorobenzene	ND	32	330									
Pentachlorophenol	ND	140	670									
Phenanthrene	ND	26	330									
Anthracene	ND	27	330									
Carbazole	ND	28	330									
Di-n-butylphthalate	ND	28	330									
Fluoranthene	ND	29	330									
Pyrene	ND	32	330									
Butylbenzylphthalate	ND	26	330									
3,3´-Dichlorobenzidine	ND	35	330									
Benzo(a)anthracene	ND	33	330									
Chrysene	ND	29	330									
Bis(2-ethylhexyl)phthalate	ND	29	330									
Di-n-octylphthalate	ND	28	330									
Benzo(b)fluoranthene	ND	40	330									
Benzo(k)fluoranthene	ND	43	330									
Benzo(a)pyrene	ND	31	330									
Indeno(1,2,3-cd)pyrene	ND	37	330									
Dibenzo(a,h)anthracene	ND	35	330									
Benzo(g,h,i)perylene	ND	38	330									
1,1´-Biphenyl	ND	42	330									
3-Methylphenol + 4-Methylphenol	ND	35	330									
Acetophenone	ND	31	330									
Aniline	ND	24	330									
Azobenzene	ND	32	330									
Benzidine	ND	130	330									
Benzoic acid	ND	67	670									
Benzyl alcohol	ND	35	330									
Bis(2-chloroisopropyl)ether	ND	33	330									
N-Nitrosodimethylamine	ND	34	330									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83206** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**
Client ID: **MB-83206** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 15:37** SeqNo: **2314988**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Nitrobenzene-d5	2599		330	3333	0	78.0	35	100	0			
Surrogate: 2-Fluorobiphenyl	2533		330	3333	0	76.0	45	105	0			
Surrogate: Terphenyl-d14	2786		330	3333	0	83.6	30	125	0			
Surrogate: Phenol-d5	3275		330	3333	0	98.3	40	100	0			
Surrogate: 2-Fluorophenol	2980		330	3333	0	89.4	35	105	0			
Surrogate: 2,4,6-Tribromophenol	1906		330	3333	0	57.2	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83207** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**
Client ID: **MB-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 17:32** SeqNo: **2314810**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	ND	37	330									
Bis(2-chloroethyl)ether	ND	42	330									
2-Chlorophenol	ND	41	330									
1,3-Dichlorobenzene	ND	40	330									
1,4-Dichlorobenzene	ND	36	330									
1,2-Dichlorobenzene	ND	42	330									
2-Methylphenol	ND	38	330									
4-Methylphenol	ND	35	330									
N-Nitroso-di-n-propylamine	ND	32	330									
Hexachloroethane	ND	35	330									
Nitrobenzene	ND	38	330									
Isophorone	ND	34	330									
2-Nitrophenol	ND	36	330									
2,4-Dimethylphenol	ND	36	330									
2,4-Dichlorophenol	ND	38	330									
1,2,4-Trichlorobenzene	ND	46	330									
Naphthalene	ND	41	330									
4-Chloroaniline	ND	24	330									
Bis(2-chloroethoxy)methane	ND	39	330									
Hexachlorobutadiene	ND	45	330									
4-Chloro-3-methylphenol	ND	26	330									
2-Methylnaphthalene	ND	42	330									
Hexachlorocyclopentadiene	ND	96	330									
2,4,6-Trichlorophenol	ND	39	330									
2,4,5-Trichlorophenol	ND	37	670									
2-Chloronaphthalene	ND	38	330									
2-Nitroaniline	ND	21	670									
Dimethylphthalate	ND	30	330									
Acenaphthylene	ND	37	330									
2,6-Dinitrotoluene	ND	28	330									
3-Nitroaniline	ND	24	670									
Acenaphthene	ND	39	330									
2,4-Dinitrophenol	ND	180	670									
4-Nitrophenol	ND	22	670									
Dibenzofuran	ND	36	330									
2,4-Dinitrotoluene	ND	23	330									
Diethylphthalate	ND	24	330									
4-Chlorophenyl-phenylether	ND	40	330									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83207** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**
Client ID: **MB-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 17:32** SeqNo: **2314810**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	ND	33	330									
4-Nitroaniline	ND	25	670									
4,6-Dinitro-2-methylphenol	ND	25	670									
N-Nitrosodiphenylamine	ND	29	330									
4-Bromophenyl-phenylether	ND	32	330									
Hexachlorobenzene	ND	32	330									
Pentachlorophenol	ND	140	670									
Phenanthrene	ND	26	330									
Anthracene	ND	27	330									
Carbazole	ND	28	330									
Di-n-butylphthalate	ND	28	330									
Fluoranthene	ND	29	330									
Pyrene	ND	32	330									
Butylbenzylphthalate	ND	26	330									
3,3´-Dichlorobenzidine	ND	35	330									
Benzo(a)anthracene	ND	33	330									
Chrysene	ND	29	330									
Bis(2-ethylhexyl)phthalate	ND	29	330									
Di-n-octylphthalate	ND	28	330									
Benzo(b)fluoranthene	ND	40	330									
Benzo(k)fluoranthene	ND	43	330									
Benzo(a)pyrene	ND	31	330									
Indeno(1,2,3-cd)pyrene	ND	37	330									
Dibenzo(a,h)anthracene	ND	35	330									
Benzo(g,h,i)perylene	ND	38	330									
1,1´-Biphenyl	ND	42	330									
3-Methylphenol + 4-Methylphenol	ND	35	330									
Acetophenone	ND	31	330									
Aniline	ND	24	330									
Azobenzene	ND	32	330									
Benzidine	ND	130	330									
Benzoic acid	ND	67	670									
Benzyl alcohol	ND	35	330									
Bis(2-chloroisopropyl)ether	ND	33	330									
N-Nitrosodimethylamine	ND	34	330									
Surrogate: Nitrobenzene-d5	2963		330	3333	0	88.9	35	100	0			
Surrogate: 2-Fluorobiphenyl	2736		330	3333	0	82.1	45	105	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **MB-83207** SampType: **MBLK** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**
Client ID: **MB-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 17:32** SeqNo: **2314810**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Terphenyl-d14	3517		330	3333	0	106	30	125	0			
Surrogate: Phenol-d5	3172		330	3333	0	95.2	40	100	0			
Surrogate: 2-Fluorophenol	3122		330	3333	0	93.7	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2400		330	3333	0	72.0	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83206** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151007B**
Client ID: **LCS-83206** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/07/15 22:50** SeqNo: **2314999**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3243	37	330	3333	0	97.3	40	100	0			
Bis(2-chloroethyl)ether	2824	42	330	3333	0	84.7	40	105	0			
2-Chlorophenol	3099	41	330	3333	0	93.0	45	105	0			
1,3-Dichlorobenzene	2522	40	330	3333	0	75.7	40	100	0			
1,4-Dichlorobenzene	2563	36	330	3333	0	76.9	35	105	0			
1,2-Dichlorobenzene	2679	42	330	3333	0	80.4	45	95	0			
2-Methylphenol	3236	38	330	3333	0	97.1	40	105	0			
4-Methylphenol	3307	35	330	3333	0	99.2	40	105	0			
N-Nitroso-di-n-propylamine	3225	32	330	3333	0	96.7	40	115	0			
Hexachloroethane	2556	35	330	3333	0	76.7	35	110	0			
Nitrobenzene	2996	38	330	3333	0	89.9	40	115	0			
Isophorone	2903	34	330	3333	0	87.1	45	110	0			
2-Nitrophenol	2928	36	330	3333	0	87.8	40	110	0			
2,4-Dimethylphenol	2855	36	330	3333	0	85.7	30	105	0			
2,4-Dichlorophenol	2964	38	330	3333	0	88.9	45	110	0			
1,2,4-Trichlorobenzene	2701	46	330	3333	0	81.0	45	110	0			
Naphthalene	2777	41	330	3333	0	83.3	40	105	0			
4-Chloroaniline	2790	24	330	3333	0	83.7	10	100	0			
Bis(2-chloroethoxy)methane	3032	39	330	3333	0	91.0	45	110	0			
Hexachlorobutadiene	2654	45	330	3333	0	79.6	40	115	0			
4-Chloro-3-methylphenol	3241	26	330	3333	0	97.2	45	115	0			
2-Methylnaphthalene	2869	42	330	3333	0	86.1	45	105	0			
Hexachlorocyclopentadiene	2103	96	330	3333	0	63.1	8.0	148	0			
2,4,6-Trichlorophenol	3154	39	330	3333	0	94.6	45	110	0			
2,4,5-Trichlorophenol	3245	37	670	3333	0	97.4	50	110	0			
2-Chloronaphthalene	3032	38	330	3333	0	91.0	45	105	0			
2-Nitroaniline	3579	21	670	3333	0	107	45	120	0			
Dimethylphthalate	3290	30	330	3333	0	98.7	50	110	0			
Acenaphthylene	3141	37	330	3333	0	94.2	45	105	0			
2,6-Dinitrotoluene	3380	28	330	3333	0	101	50	110	0			
3-Nitroaniline	3066	24	670	3333	0	92.0	25	110	0			
Acenaphthene	3131	39	330	3333	0	93.9	45	110	0			
2,4-Dinitrophenol	2375	180	670	3333	0	71.3	15	130	0			
4-Nitrophenol	3768	22	670	3333	0	113	15	140	0			
Dibenzofuran	3203	36	330	3333	0	96.1	50	105	0			
2,4-Dinitrotoluene	3559	23	330	3333	0	107	50	115	0			
Diethylphthalate	3459	24	330	3333	0	104	50	115	0			
4-Chlorophenyl-phenylether	3234	40	330	3333	0	97.0	45	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83206** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151007B**
Client ID: **LCS-83206** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/07/15 22:50** SeqNo: **2314999**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	3243	33	330	3333	0	97.3	50	110	0			
4-Nitroaniline	3691	25	670	3333	0	111	35	115	0			
4,6-Dinitro-2-methylphenol	2898	25	670	3333	0	87.0	30	135	0			
N-Nitrosodiphenylamine	3134	29	330	3333	0	94.0	50	115	0			
4-Bromophenyl-phenylether	2869	32	330	3333	0	86.1	45	115	0			
Hexachlorobenzene	2820	32	330	3333	0	84.6	45	120	0			
Pentachlorophenol	1849	140	670	3333	0	55.5	25	120	0			
Phenanthrene	3166	26	330	3333	0	95.0	50	110	0			
Anthracene	3157	27	330	3333	0	94.7	55	105	0			
Carbazole	3303	28	330	3333	0	99.1	45	115	0			
Di-n-butylphthalate	3276	28	330	3333	0	98.3	55	110	0			
Fluoranthene	3326	29	330	3333	0	99.8	55	115	0			
Pyrene	3233	32	330	3333	0	97.0	45	125	0			
Butylbenzylphthalate	3390	26	330	3333	0	102	50	125	0			
3,3´-Dichlorobenzidine	3327	35	330	3333	0	99.8	10	130	0			
Benzo(a)anthracene	3735	33	330	3333	0	112	50	110	0			S
Chrysene	3588	29	330	3333	0	108	55	110	0			
Bis(2-ethylhexyl)phthalate	3472	29	330	3333	0	104	45	125	0			
Di-n-octylphthalate	3393	28	330	3333	0	102	40	130	0			
Benzo(b)fluoranthene	3256	40	330	3333	0	97.7	45	115	0			
Benzo(k)fluoranthene	3168	43	330	3333	0	95.0	45	125	0			
Benzo(a)pyrene	3232	31	330	3333	0	97.0	50	110	0			
Indeno(1,2,3-cd)pyrene	3058	37	330	3333	0	91.8	40	120	0			
Dibenzo(a,h)anthracene	3397	35	330	3333	0	102	40	125	0			
Benzo(g,h,i)perylene	3351	38	330	3333	0	101	40	125	0			
Surrogate: Nitrobenzene-d5	3003		330	3333	0	90.1	35	100	0			
Surrogate: 2-Fluorobiphenyl	2998		330	3333	0	90.0	45	105	0			
Surrogate: Terphenyl-d14	3218		330	3333	0	96.6	30	125	0			
Surrogate: Phenol-d5	3226		330	3333	0	96.8	40	100	0			
Surrogate: 2-Fluorophenol	3359		330	3333	0	101	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2587		330	3333	0	77.6	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83207** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**

Client ID: **LCS-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 17:58** SeqNo: **2314811**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2965	37	330	3333	0	89.0	40	100	0			
Bis(2-chloroethyl)ether	2795	42	330	3333	0	83.8	40	105	0			
2-Chlorophenol	3061	41	330	3333	0	91.8	45	105	0			
1,3-Dichlorobenzene	2493	40	330	3333	0	74.8	40	100	0			
1,4-Dichlorobenzene	2551	36	330	3333	0	76.6	35	105	0			
1,2-Dichlorobenzene	2639	42	330	3333	0	79.2	45	95	0			
2-Methylphenol	3099	38	330	3333	0	93.0	40	105	0			
4-Methylphenol	3158	35	330	3333	0	94.7	40	105	0			
N-Nitroso-di-n-propylamine	3024	32	330	3333	0	90.7	40	115	0			
Hexachloroethane	2514	35	330	3333	0	75.4	35	110	0			
Nitrobenzene	3012	38	330	3333	0	90.4	40	115	0			
Isophorone	2857	34	330	3333	0	85.7	45	110	0			
2-Nitrophenol	2898	36	330	3333	0	87.0	40	110	0			
2,4-Dimethylphenol	3075	36	330	3333	0	92.3	30	105	0			
2,4-Dichlorophenol	3012	38	330	3333	0	90.4	45	110	0			
1,2,4-Trichlorobenzene	2691	46	330	3333	0	80.8	45	110	0			
Naphthalene	2821	41	330	3333	0	84.6	40	105	0			
4-Chloroaniline	2662	24	330	3333	0	79.9	10	100	0			
Bis(2-chloroethoxy)methane	3008	39	330	3333	0	90.2	45	110	0			
Hexachlorobutadiene	2782	45	330	3333	0	83.5	40	115	0			
4-Chloro-3-methylphenol	3141	26	330	3333	0	94.3	45	115	0			
2-Methylnaphthalene	2799	42	330	3333	0	84.0	45	105	0			
Hexachlorocyclopentadiene	2370	96	330	3333	0	71.1	8.0	148	0			
2,4,6-Trichlorophenol	3140	39	330	3333	0	94.2	45	110	0			
2,4,5-Trichlorophenol	3227	37	670	3333	0	96.8	50	110	0			
2-Chloronaphthalene	3037	38	330	3333	0	91.1	45	105	0			
2-Nitroaniline	3534	21	670	3333	0	106	45	120	0			
Dimethylphthalate	3224	30	330	3333	0	96.7	50	110	0			
Acenaphthylene	3167	37	330	3333	0	95.0	45	105	0			
2,6-Dinitrotoluene	3292	28	330	3333	0	98.8	50	110	0			
3-Nitroaniline	3075	24	670	3333	0	92.3	25	110	0			
Acenaphthene	3085	39	330	3333	0	92.6	45	110	0			
2,4-Dinitrophenol	2599	180	670	3333	0	78.0	15	130	0			
4-Nitrophenol	3496	22	670	3333	0	105	15	140	0			
Dibenzofuran	3158	36	330	3333	0	94.8	50	105	0			
2,4-Dinitrotoluene	3490	23	330	3333	0	105	50	115	0			
Diethylphthalate	3325	24	330	3333	0	99.8	50	115	0			
4-Chlorophenyl-phenylether	3227	40	330	3333	0	96.8	45	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83207** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**

Client ID: **LCS-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 17:58** SeqNo: **2314811**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	3140	33	330	3333	0	94.2	50	110	0			
4-Nitroaniline	3505	25	670	3333	0	105	35	115	0			
4,6-Dinitro-2-methylphenol	3187	25	670	3333	0	95.6	30	135	0			
N-Nitrosodiphenylamine	3135	29	330	3333	0	94.1	50	115	0			
4-Bromophenyl-phenylether	2862	32	330	3333	0	85.9	45	115	0			
Hexachlorobenzene	2850	32	330	3333	0	85.5	45	120	0			
Pentachlorophenol	1886	140	670	3333	0	56.6	25	120	0			
Phenanthrene	3115	26	330	3333	0	93.5	50	110	0			
Anthracene	3162	27	330	3333	0	94.9	55	105	0			
Carbazole	3226	28	330	3333	0	96.8	45	115	0			
Di-n-butylphthalate	3226	28	330	3333	0	96.8	55	110	0			
Fluoranthene	3201	29	330	3333	0	96.0	55	115	0			
Pyrene	3365	32	330	3333	0	101	45	125	0			
Butylbenzylphthalate	3428	26	330	3333	0	103	50	125	0			
3,3´-Dichlorobenzidine	3395	35	330	3333	0	102	10	130	0			
Benzo(a)anthracene	3652	33	330	3333	0	110	50	110	0			
Chrysene	3534	29	330	3333	0	106	55	110	0			
Bis(2-ethylhexyl)phthalate	3491	29	330	3333	0	105	45	125	0			
Di-n-octylphthalate	3609	28	330	3333	0	108	40	130	0			
Benzo(b)fluoranthene	3256	40	330	3333	0	97.7	45	115	0			
Benzo(k)fluoranthene	3192	43	330	3333	0	95.8	45	125	0			
Benzo(a)pyrene	3223	31	330	3333	0	96.7	50	110	0			
Indeno(1,2,3-cd)pyrene	2919	37	330	3333	0	87.6	40	120	0			
Dibenzo(a,h)anthracene	3222	35	330	3333	0	96.7	40	125	0			
Benzo(g,h,i)perylene	3078	38	330	3333	0	92.4	40	125	0			
1,1´-Biphenyl	3008	42	330	3333	0	90.3	50	121	0			
3-Methylphenol + 4-Methylphenol	3158	35	330	3333	0	94.7	40	105	0			
Acetophenone	2815	31	330	3333	0	84.5	50	150	0			
Aniline	1519	24	330	3333	0	45.6	10	150	0			
Azobenzene	3377	32	330	3333	0	101	50	150	0			
Benzyl alcohol	3066	35	330	3333	0	92.0	21	119	0			
Bis(2-chloroisopropyl)ether	2573	33	330	3333	0	77.2	40	140	0			
N-Nitrosodimethylamine	2616	34	330	3333	0	78.5	50	150	0			
Surrogate: Nitrobenzene-d5	3137		330	3333	0	94.1	35	100	0			
Surrogate: 2-Fluorobiphenyl	2995		330	3333	0	89.9	45	105	0			
Surrogate: Terphenyl-d14	3378		330	3333	0	101	30	125	0			
Surrogate: Phenol-d5	3068		330	3333	0	92.1	40	100	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCS-83207** SampType: **LCS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**
Client ID: **LCS-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 17:58** SeqNo: **2314811**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 2-Fluorophenol	3161		330	3333	0	94.8	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2586		330	3333	0	77.6	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83207** SampType: **LCSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**

Client ID: **LCSD-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 18:25** SeqNo: **2314812**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3043	37	330	3333	0	91.3	40	100	2965	2.61	40	
Bis(2-chloroethyl)ether	2626	42	330	3333	0	78.8	40	105	2795	6.22	40	
2-Chlorophenol	2956	41	330	3333	0	88.7	45	105	3061	3.49	40	
1,3-Dichlorobenzene	2442	40	330	3333	0	73.3	40	100	2493	2.1	40	
1,4-Dichlorobenzene	2396	36	330	3333	0	71.9	35	105	2551	6.28	40	
1,2-Dichlorobenzene	2570	42	330	3333	0	77.1	45	95	2639	2.64	40	
2-Methylphenol	3074	38	330	3333	0	92.2	40	105	3099	0.824	40	
4-Methylphenol	3163	35	330	3333	0	94.9	40	105	3158	0.17	40	
N-Nitroso-di-n-propylamine	3091	32	330	3333	0	92.7	40	115	3024	2.17	40	
Hexachloroethane	2453	35	330	3333	0	73.6	35	110	2514	2.43	40	
Nitrobenzene	2914	38	330	3333	0	87.4	40	115	3012	3.32	40	
Isophorone	2846	34	330	3333	0	85.4	45	110	2857	0.405	40	
2-Nitrophenol	2807	36	330	3333	0	84.2	40	110	2898	3.2	40	
2,4-Dimethylphenol	3002	36	330	3333	0	90.1	30	105	3075	2.4	40	
2,4-Dichlorophenol	2958	38	330	3333	0	88.7	45	110	3012	1.83	40	
1,2,4-Trichlorobenzene	2620	46	330	3333	0	78.6	45	110	2691	2.69	40	
Naphthalene	2716	41	330	3333	0	81.5	40	105	2821	3.79	40	
4-Chloroaniline	2765	24	330	3333	0	83.0	10	100	2662	3.78	40	
Bis(2-chloroethoxy)methane	2944	39	330	3333	0	88.3	45	110	3008	2.13	40	
Hexachlorobutadiene	2591	45	330	3333	0	77.7	40	115	2782	7.11	40	
4-Chloro-3-methylphenol	3221	26	330	3333	0	96.6	45	115	3141	2.5	40	
2-Methylnaphthalene	2804	42	330	3333	0	84.1	45	105	2799	0.178	40	
Hexachlorocyclopentadiene	2157	96	330	3333	0	64.7	8.0	148	2370	9.43	40	
2,4,6-Trichlorophenol	2986	39	330	3333	0	89.6	45	110	3140	5.03	40	
2,4,5-Trichlorophenol	3019	37	670	3333	0	90.6	50	110	3227	6.65	40	
2-Chloronaphthalene	2789	38	330	3333	0	83.7	45	105	3037	8.53	40	
2-Nitroaniline	3388	21	670	3333	0	102	45	120	3534	4.22	40	
Dimethylphthalate	3083	30	330	3333	0	92.5	50	110	3224	4.45	40	
Acenaphthylene	2932	37	330	3333	0	88.0	45	105	3167	7.72	40	
2,6-Dinitrotoluene	3129	28	330	3333	0	93.9	50	110	3292	5.07	40	
3-Nitroaniline	2930	24	670	3333	0	87.9	25	110	3075	4.83	40	
Acenaphthene	2902	39	330	3333	0	87.1	45	110	3085	6.12	40	
2,4-Dinitrophenol	2147	180	670	3333	0	64.4	15	130	2599	19.1	40	
4-Nitrophenol	3487	22	670	3333	0	105	15	140	3496	0.251	40	
Dibenzofuran	3002	36	330	3333	0	90.1	50	105	3158	5.07	40	
2,4-Dinitrotoluene	3349	23	330	3333	0	100	50	115	3490	4.14	40	
Diethylphthalate	3163	24	330	3333	0	94.9	50	115	3325	5.0	40	
4-Chlorophenyl-phenylether	3070	40	330	3333	0	92.1	45	110	3227	4.98	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83207** SampType: **LCSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**

Client ID: **LCSD-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 18:25** SeqNo: **2314812**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	3057	33	330	3333	0	91.7	50	110	3140	2.69	40	
4-Nitroaniline	3484	25	670	3333	0	105	35	115	3505	0.606	40	
4,6-Dinitro-2-methylphenol	2779	25	670	3333	0	83.4	30	135	3187	13.7	40	
N-Nitrosodiphenylamine	3088	29	330	3333	0	92.7	50	115	3135	1.51	40	
4-Bromophenyl-phenylether	2811	32	330	3333	0	84.3	45	115	2862	1.81	40	
Hexachlorobenzene	2825	32	330	3333	0	84.8	45	120	2850	0.895	40	
Pentachlorophenol	1803	140	670	3333	0	54.1	25	120	1886	4.47	40	
Phenanthrene	3107	26	330	3333	0	93.2	50	110	3115	0.255	40	
Anthracene	3103	27	330	3333	0	93.1	55	105	3162	1.9	40	
Carbazole	3205	28	330	3333	0	96.2	45	115	3226	0.645	40	
Di-n-butylphthalate	3251	28	330	3333	0	97.5	55	110	3226	0.794	40	
Fluoranthene	3218	29	330	3333	0	96.5	55	115	3201	0.521	40	
Pyrene	3244	32	330	3333	0	97.3	45	125	3365	3.66	40	
Butylbenzylphthalate	3345	26	330	3333	0	100	50	125	3428	2.46	40	
3,3´-Dichlorobenzidine	3213	35	330	3333	0	96.4	10	130	3395	5.52	40	
Benzo(a)anthracene	3617	33	330	3333	0	109	50	110	3652	0.957	40	
Chrysene	3502	29	330	3333	0	105	55	110	3534	0.916	40	
Bis(2-ethylhexyl)phthalate	3403	29	330	3333	0	102	45	125	3491	2.57	40	
Di-n-octylphthalate	3364	28	330	3333	0	101	40	130	3609	7.04	40	
Benzo(b)fluoranthene	3249	40	330	3333	0	97.5	45	115	3256	0.227	40	
Benzo(k)fluoranthene	3010	43	330	3333	0	90.3	45	125	3192	5.89	40	
Benzo(a)pyrene	3122	31	330	3333	0	93.7	50	110	3223	3.21	40	
Indeno(1,2,3-cd)pyrene	2899	37	330	3333	0	87.0	40	120	2919	0.69	40	
Dibenzo(a,h)anthracene	3256	35	330	3333	0	97.7	40	125	3222	1.04	40	
Benzo(g,h,i)perylene	3213	38	330	3333	0	96.4	40	125	3078	4.27	40	
1,1´-Biphenyl	2813	42	330	3333	0	84.4	50	121	3008	6.72	40	
3-Methylphenol + 4-Methylphenol	3163	35	330	3333	0	94.9	40	105	3158	0.17	40	
Acetophenone	2776	31	330	3333	0	83.3	50	150	2815	1.38	40	
Aniline	1572	24	330	3333	0	47.2	10	150	1519	3.42	40	
Azobenzene	3179	32	330	3333	0	95.4	50	150	3377	6.03	40	
Benzyl alcohol	3119	35	330	3333	0	93.6	21	119	3066	1.7	40	
Bis(2-chloroisopropyl)ether	2534	33	330	3333	0	76.0	40	140	2573	1.53	30	
N-Nitrosodimethylamine	2423	34	330	3333	0	72.7	50	150	2616	7.64	40	
Surrogate: Nitrobenzene-d5	3079		330	3333	0	92.4	35	100	0			
Surrogate: 2-Fluorobiphenyl	2925		330	3333	0	87.8	45	105	0			
Surrogate: Terphenyl-d14	3442		330	3333	0	103	30	125	0			
Surrogate: Phenol-d5	3264		330	3333	0	97.9	40	100	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **LCSD-83207** SampType: **LCSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:52** Run ID: **S6_151007A**
Client ID: **LCSD-83207** Batch ID: **83207** Units: **ug/Kg** Analysis Date: **10/07/15 18:25** SeqNo: **2314812**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 2-Fluorophenol	3341		330	3333	0	100	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2694		330	3333	0	80.8	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**
Client ID: **NOB-119-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 13:24** SeqNo: **2314983**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3633	39	350	3545	0	102	40	100	0			S
Bis(2-chloroethyl)ether	3257	45	350	3545	0	91.9	40	105	0			
2-Chlorophenol	3407	44	350	3545	0	96.1	45	105	0			
1,3-Dichlorobenzene	2279	43	350	3545	0	64.3	40	100	0			
1,4-Dichlorobenzene	2355	38	350	3545	0	66.4	35	105	0			
1,2-Dichlorobenzene	2574	45	350	3545	0	72.6	45	95	0			
2-Methylphenol	3652	40	350	3545	0	103	40	105	0			
4-Methylphenol	3621	37	350	3545	0	102	40	105	0			
N-Nitroso-di-n-propylamine	3157	34	350	3545	0	89.0	40	115	0			
Hexachloroethane	2165	37	350	3545	0	61.1	35	110	0			
Nitrobenzene	2670	40	350	3545	0	75.3	40	115	0			
Isophorone	2568	36	350	3545	0	72.4	45	110	0			
2-Nitrophenol	2629	38	350	3545	0	74.2	40	110	0			
2,4-Dimethylphenol	2918	38	350	3545	0	82.3	30	105	0			
2,4-Dichlorophenol	2947	40	350	3545	0	83.1	45	110	0			
1,2,4-Trichlorobenzene	2411	49	350	3545	0	68.0	45	110	0			
Naphthalene	2585	44	350	3545	0	72.9	40	105	0			
4-Chloroaniline	2746	26	350	3545	0	77.5	10	100	0			
Bis(2-chloroethoxy)methane	2707	41	350	3545	0	76.4	45	110	0			
Hexachlorobutadiene	2152	48	350	3545	0	60.7	40	115	0			
4-Chloro-3-methylphenol	3150	28	350	3545	0	88.9	45	115	0			
2-Methylnaphthalene	2667	45	350	3545	0	75.2	45	105	0			
Hexachlorocyclopentadiene	1651	100	350	3545	0	46.6	8.0	148	0			
2,4,6-Trichlorophenol	2712	41	350	3545	0	76.5	45	110	0			
2,4,5-Trichlorophenol	2819	39	710	3545	0	79.5	50	110	0			
2-Chloronaphthalene	2680	40	350	3545	0	75.6	45	105	0			
2-Nitroaniline	3214	22	710	3545	0	90.7	45	120	0			
Dimethylphthalate	3143	32	350	3545	0	88.7	50	110	0			
Acenaphthylene	2773	39	350	3545	0	78.2	45	105	0			
2,6-Dinitrotoluene	2914	30	350	3545	0	82.2	50	110	0			
3-Nitroaniline	2991	26	710	3545	0	84.4	25	110	0			
Acenaphthene	2741	41	350	3545	0	77.3	45	110	0			
2,4-Dinitrophenol	2228	190	710	3545	0	62.9	15	130	0			
4-Nitrophenol	3219	23	710	3545	0	90.8	15	140	0			
Dibenzofuran	2834	38	350	3545	0	79.9	50	105	0			
2,4-Dinitrotoluene	3216	24	350	3545	0	90.7	50	115	0			
Diethylphthalate	2949	26	350	3545	0	83.2	50	115	0			
4-Chlorophenyl-phenylether	2765	43	350	3545	0	78.0	45	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**
Client ID: **NOB-119-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 13:24** SeqNo: **2314983**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	2906	35	350	3545	0	82.0	50	110	0			
4-Nitroaniline	3359	27	710	3545	0	94.8	35	115	0			
4,6-Dinitro-2-methylphenol	2581	27	710	3545	0	72.8	30	135	0			
N-Nitrosodiphenylamine	2819	31	350	3545	0	79.5	50	115	0			
4-Bromophenyl-phenylether	2365	34	350	3545	0	66.7	45	115	0			
Hexachlorobenzene	2310	34	350	3545	0	65.2	45	120	0			
Pentachlorophenol	1159	150	710	3545	0	32.7	25	120	0			
Phenanthrene	2931	28	350	3545	0	82.7	50	110	0			
Anthracene	2956	29	350	3545	0	83.4	55	105	0			
Carbazole	3033	30	350	3545	0	85.6	45	115	0			
Di-n-butylphthalate	2915	30	350	3545	0	82.2	55	110	0			
Fluoranthene	3060	31	350	3545	0	86.3	55	115	0			
Pyrene	3030	34	350	3545	0	85.5	45	125	0			
Butylbenzylphthalate	3002	28	350	3545	0	84.7	50	125	0			
3,3´-Dichlorobenzidine	2892	37	350	3545	0	81.6	10	130	0			
Benzo(a)anthracene	3266	35	350	3545	0	92.1	50	110	0			
Chrysene	3293	31	350	3545	0	92.9	55	110	0			
Bis(2-ethylhexyl)phthalate	3125	31	350	3545	0	88.2	45	125	0			
Di-n-octylphthalate	3087	30	350	3545	0	87.1	40	130	0			
Benzo(b)fluoranthene	2883	43	350	3545	0	81.3	45	115	0			
Benzo(k)fluoranthene	2930	46	350	3545	0	82.7	45	125	0			
Benzo(a)pyrene	2877	33	350	3545	0	81.1	50	110	0			
Indeno(1,2,3-cd)pyrene	2919	39	350	3545	0	82.3	40	120	0			
Dibenzo(a,h)anthracene	3023	37	350	3545	0	85.3	40	125	0			
Benzo(g,h,i)perylene	2985	40	350	3545	0	84.2	40	125	0			
1,1´-Biphenyl	2670	45	350	3545	0	75.3	50	121	0			
3-Methylphenol + 4-Methylphenol	3621	37	350	3545	0	102	40	105	0			
Acetophenone	2962	33	350	3545	0	83.6	50	150	0			
Aniline	1762	26	350	3545	0	49.7	10	150	0			
Azobenzene	2836	34	350	3545	0	80.0	50	150	0			
Benzyl alcohol	3500	37	350	3545	0	98.7	21	119	0			
Bis(2-chloroisopropyl)ether	2616	35	350	3545	0	73.8	40	140	0			
N-Nitrosodimethylamine	2402	36	350	3545	0	67.7	50	150	0			
Surrogate: Nitrobenzene-d5	2797		350	3545	0	78.9	35	100	0			
Surrogate: 2-Fluorobiphenyl	2715		350	3545	0	76.6	45	105	0			
Surrogate: Terphenyl-d14	2892		350	3545	0	81.6	30	125	0			
Surrogate: Phenol-d5	3767		350	3545	0	106	40	100	0			S

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**
Client ID: **NOB-119-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 13:24** SeqNo: **2314983**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 2-Fluorophenol	3511		350	3545	0	99.0	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2176		350	3545	0	61.4	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151007B**
Client ID: **NOB-109-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 7:09** SeqNo: **2315008**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2597	40	350	3570	0	72.7	40	100	0			
Bis(2-chloroethyl)ether	2294	45	350	3570	0	64.3	40	105	0			
2-Chlorophenol	2499	44	350	3570	0	70.0	45	105	0			
1,3-Dichlorobenzene	2085	43	350	3570	0	58.4	40	100	0			
1,4-Dichlorobenzene	2069	39	350	3570	0	57.9	35	105	0			
1,2-Dichlorobenzene	2203	45	350	3570	0	61.7	45	95	0			
2-Methylphenol	2644	41	350	3570	0	74.1	40	105	0			
4-Methylphenol	2657	37	350	3570	0	74.4	40	105	0			
N-Nitroso-di-n-propylamine	2473	34	350	3570	0	69.3	40	115	0			
Hexachloroethane	2049	37	350	3570	0	57.4	35	110	0			
Nitrobenzene	2498	41	350	3570	0	70.0	40	115	0			
Isophorone	2475	36	350	3570	0	69.3	45	110	0			
2-Nitrophenol	2370	39	350	3570	0	66.4	40	110	0			
2,4-Dimethylphenol	2658	39	350	3570	0	74.4	30	105	0			
2,4-Dichlorophenol	2596	41	350	3570	0	72.7	45	110	0			
1,2,4-Trichlorobenzene	2314	49	350	3570	0	64.8	45	110	0			
Naphthalene	2368	44	350	3570	0	66.3	40	105	0			
4-Chloroaniline	2380	26	350	3570	0	66.7	10	100	0			
Bis(2-chloroethoxy)methane	2570	42	350	3570	0	72.0	45	110	0			
Hexachlorobutadiene	2279	48	350	3570	0	63.8	40	115	0			
4-Chloro-3-methylphenol	2893	28	350	3570	0	81.0	45	115	0			
2-Methylnaphthalene	2451	45	350	3570	0	68.6	45	105	0			
Hexachlorocyclopentadiene	1468	100	350	3570	0	41.1	8.0	148	0			
2,4,6-Trichlorophenol	2620	42	350	3570	0	73.4	45	110	0			
2,4,5-Trichlorophenol	2687	40	720	3570	0	75.3	50	110	0			
2-Chloronaphthalene	2555	41	350	3570	0	71.6	45	105	0			
2-Nitroaniline	3056	22	720	3570	0	85.6	45	120	0			
Dimethylphthalate	3194	32	350	3570	0	89.5	50	110	0			
Acenaphthylene	2641	40	350	3570	0	74.0	45	105	0			
2,6-Dinitrotoluene	2809	30	350	3570	0	78.7	50	110	0			
3-Nitroaniline	2772	26	720	3570	0	77.6	25	110	0			
Acenaphthene	2582	42	350	3570	0	72.3	45	110	0			
2,4-Dinitrophenol	1468	190	720	3570	0	41.1	15	130	0			
4-Nitrophenol	3104	24	720	3570	0	86.9	15	140	0			
Dibenzofuran	2689	39	350	3570	0	75.3	50	105	0			
2,4-Dinitrotoluene	2886	25	350	3570	0	80.8	50	115	0			
Diethylphthalate	2797	26	350	3570	0	78.3	50	115	0			
4-Chlorophenyl-phenylether	2728	43	350	3570	0	76.4	45	110	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151007B**
Client ID: **NOB-109-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 7:09** SeqNo: **2315008**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	2677	35	350	3570	0	75.0	50	110	0			
4-Nitroaniline	3104	27	720	3570	0	86.9	35	115	0			
4,6-Dinitro-2-methylphenol	1717	27	720	3570	0	48.1	30	135	0			
N-Nitrosodiphenylamine	2783	31	350	3570	0	77.9	50	115	0			
4-Bromophenyl-phenylether	2431	34	350	3570	0	68.1	45	115	0			
Hexachlorobenzene	2335	34	350	3570	0	65.4	45	120	0			
Pentachlorophenol	1291	150	720	3570	0	36.2	25	120	0			
Phenanthrene	2796	28	350	3570	0	78.3	50	110	0			
Anthracene	2757	29	350	3570	0	77.2	55	105	0			
Carbazole	2821	30	350	3570	0	79.0	45	115	0			
Di-n-butylphthalate	2908	30	350	3570	0	81.4	55	110	0			
Fluoranthene	2843	31	350	3570	0	79.6	55	115	0			
Pyrene	2930	34	350	3570	0	82.1	45	125	0			
Butylbenzylphthalate	3017	28	350	3570	0	84.5	50	125	0			
3,3´-Dichlorobenzidine	2709	37	350	3570	0	75.9	10	130	0			
Benzo(a)anthracene	3154	35	350	3570	0	88.3	50	110	0			
Chrysene	3171	31	350	3570	0	88.8	55	110	0			
Bis(2-ethylhexyl)phthalate	3078	31	350	3570	0	86.2	45	125	0			
Di-n-octylphthalate	3301	30	350	3570	0	92.5	40	130	0			
Benzo(b)fluoranthene	2839	43	350	3570	0	79.5	45	115	0			
Benzo(k)fluoranthene	2709	46	350	3570	0	75.9	45	125	0			
Benzo(a)pyrene	2720	33	350	3570	0	76.2	50	110	0			
Indeno(1,2,3-cd)pyrene	2317	40	350	3570	0	64.9	40	120	0			
Dibenzo(a,h)anthracene	2611	37	350	3570	0	73.1	40	125	0			
Benzo(g,h,i)perylene	2529	41	350	3570	0	70.8	40	125	0			
1,1´-Biphenyl	2539	45	350	3570	0	71.1	50	121	0			
3-Methylphenol + 4-Methylphenol	2657	37	350	3570	0	74.4	40	105	0			
Acetophenone	2391	33	350	3570	0	67.0	50	150	0			
Aniline	1331	26	350	3570	0	37.3	10	150	0			
Azobenzene	2847	34	350	3570	0	79.7	50	150	0			
Benzyl alcohol	2608	37	350	3570	0	73.1	21	119	0			
Bis(2-chloroisopropyl)ether	2158	35	350	3570	0	60.4	40	140	0			
N-Nitrosodimethylamine	2132	36	350	3570	0	59.7	50	150	0			
Surrogate: Nitrobenzene-d5	2702		350	3570	0	75.7	35	100	0			
Surrogate: 2-Fluorobiphenyl	2495		350	3570	0	69.9	45	105	0			
Surrogate: Terphenyl-d14	3002		350	3570	0	84.1	30	125	0			
Surrogate: Phenol-d5	2658		350	3570	0	74.4	40	100	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151007B**

Client ID: **NOB-109-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 7:09** SeqNo: **2315008**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 2-Fluorophenol	2763		350	3570	0	77.4	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2280		350	3570	0	63.9	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**

Client ID: **NOB-119-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 13:51** SeqNo: **2314984**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	3240	39	340	3476	0	93.2	40	100	3633	11.4	40	
Bis(2-chloroethyl)ether	2757	44	340	3476	0	79.3	40	105	3257	16.6	40	
2-Chlorophenol	2714	43	340	3476	0	78.1	45	105	3407	22.6	40	
1,3-Dichlorobenzene	1939	42	340	3476	0	55.8	40	100	2279	16.1	40	
1,4-Dichlorobenzene	1907	38	340	3476	0	54.9	35	105	2355	21	40	
1,2-Dichlorobenzene	2099	44	340	3476	0	60.4	45	95	2574	20.3	40	
2-Methylphenol	3165	40	340	3476	0	91.1	40	105	3652	14.3	40	
4-Methylphenol	3486	36	340	3476	0	100	40	105	3621	3.8	40	
N-Nitroso-di-n-propylamine	2727	33	340	3476	0	78.5	40	115	3157	14.6	40	
Hexachloroethane	1977	36	340	3476	0	56.9	35	110	2165	9.11	40	
Nitrobenzene	2294	40	340	3476	0	66.0	40	115	2670	15.1	40	
Isophorone	2385	35	340	3476	0	68.6	45	110	2568	7.4	40	
2-Nitrophenol	2257	38	340	3476	0	64.9	40	110	2629	15.2	40	
2,4-Dimethylphenol	2676	38	340	3476	0	77.0	30	105	2918	8.65	40	
2,4-Dichlorophenol	2696	40	340	3476	0	77.6	45	110	2947	8.9	40	
1,2,4-Trichlorobenzene	2033	48	340	3476	0	58.5	45	110	2411	17	40	
Naphthalene	2298	43	340	3476	0	66.1	40	105	2585	11.7	40	
4-Chloroaniline	2621	25	340	3476	0	75.4	10	100	2746	4.65	40	
Bis(2-chloroethoxy)methane	2461	41	340	3476	0	70.8	45	110	2707	9.53	40	
Hexachlorobutadiene	1921	47	340	3476	0	55.3	40	115	2152	11.4	40	
4-Chloro-3-methylphenol	3038	27	340	3476	0	87.4	45	115	3150	3.62	40	
2-Methylnaphthalene	2459	44	340	3476	0	70.8	45	105	2667	8.11	40	
Hexachlorocyclopentadiene	1206	100	340	3476	0	34.7	8.0	148	1651	31.2	40	
2,4,6-Trichlorophenol	2375	41	340	3476	0	68.3	45	110	2712	13.2	40	
2,4,5-Trichlorophenol	2415	39	700	3476	0	69.5	50	110	2819	15.4	40	
2-Chloronaphthalene	2393	40	340	3476	0	68.9	45	105	2680	11.3	40	
2-Nitroaniline	2890	22	700	3476	0	83.2	45	120	3214	10.6	40	
Dimethylphthalate	3027	31	340	3476	0	87.1	50	110	3143	3.75	40	
Acenaphthylene	2495	39	340	3476	0	71.8	45	105	2773	10.6	40	
2,6-Dinitrotoluene	2543	29	340	3476	0	73.2	50	110	2914	13.6	40	
3-Nitroaniline	2723	25	700	3476	0	78.3	25	110	2991	9.39	40	
Acenaphthene	2468	41	340	3476	0	71.0	45	110	2741	10.5	40	
2,4-Dinitrophenol	1249	190	700	3476	0	35.9	15	130	2228	56.3	40	R
4-Nitrophenol	2500	23	700	3476	0	71.9	15	140	3219	25.1	40	
Dibenzofuran	2606	38	340	3476	0	75.0	50	105	2834	8.39	40	
2,4-Dinitrotoluene	2883	24	340	3476	0	83.0	50	115	3216	10.9	40	
Diethylphthalate	2644	25	340	3476	0	76.1	50	115	2949	10.9	40	
4-Chlorophenyl-phenylether	2568	42	340	3476	0	73.9	45	110	2765	7.39	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**

Client ID: **NOB-119-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 13:51** SeqNo: **2314984**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	2681	34	340	3476	0	77.1	50	110	2906	8.06	40	
4-Nitroaniline	3110	26	700	3476	0	89.5	35	115	3359	7.73	40	
4,6-Dinitro-2-methylphenol	1763	26	700	3476	0	50.7	30	135	2581	37.6	40	
N-Nitrosodiphenylamine	2676	30	340	3476	0	77.0	50	115	2819	5.21	40	
4-Bromophenyl-phenylether	2239	33	340	3476	0	64.4	45	115	2365	5.43	40	
Hexachlorobenzene	2117	33	340	3476	0	60.9	45	120	2310	8.71	40	
Pentachlorophenol	1003	150	700	3476	0	28.9	25	120	1159	14.4	40	
Phenanthrene	2737	27	340	3476	0	78.7	50	110	2931	6.87	40	
Anthracene	2683	28	340	3476	0	77.2	55	105	2956	9.67	40	
Carbazole	2855	29	340	3476	0	82.2	45	115	3033	6.03	40	
Di-n-butylphthalate	2757	29	340	3476	0	79.3	55	110	2915	5.58	40	
Fluoranthene	2824	30	340	3476	0	81.3	55	115	3060	8.0	40	
Pyrene	2731	33	340	3476	0	78.6	45	125	3030	10.4	40	
Butylbenzylphthalate	2694	27	340	3476	0	77.5	50	125	3002	10.8	40	
3,3´-Dichlorobenzidine	2637	36	340	3476	0	75.9	10	130	2892	9.22	40	
Benzo(a)anthracene	2972	34	340	3476	0	85.5	50	110	3266	9.44	40	
Chrysene	2990	30	340	3476	0	86.0	55	110	3293	9.65	40	
Bis(2-ethylhexyl)phthalate	2825	30	340	3476	0	81.3	45	125	3125	10.1	40	
Di-n-octylphthalate	2769	29	340	3476	0	79.7	40	130	3087	10.9	40	
Benzo(b)fluoranthene	2674	42	340	3476	0	76.9	45	115	2883	7.51	40	
Benzo(k)fluoranthene	2625	45	340	3476	0	75.5	45	125	2930	11	40	
Benzo(a)pyrene	2684	32	340	3476	0	77.2	50	110	2877	6.92	40	
Indeno(1,2,3-cd)pyrene	2761	39	340	3476	0	79.5	40	120	2919	5.54	40	
Dibenzo(a,h)anthracene	2916	36	340	3476	0	83.9	40	125	3023	3.62	40	
Benzo(g,h,i)perylene	2947	40	340	3476	0	84.8	40	125	2985	1.28	40	
1,1´-Biphenyl	2386	44	340	3476	0	68.7	50	121	2670	11.2	40	
3-Methylphenol + 4-Methylphenol	3486	36	340	3476	0	100	40	105	3621	3.8	40	
Acetophenone	2690	32	340	3476	0	77.4	50	150	2962	9.63	40	
Aniline	1478	25	340	3476	0	42.5	10	150	1762	17.5	40	
Azobenzene	2678	33	340	3476	0	77.1	50	150	2836	5.73	40	
Benzyl alcohol	3165	36	340	3476	0	91.1	21	119	3500	10.1	40	
Bis(2-chloroisopropyl)ether	2190	34	340	3476	0	63.0	40	140	2616	17.7	30	
N-Nitrosodimethylamine	1881	35	340	3476	0	54.1	50	150	2402	24.3	40	
Surrogate: Nitrobenzene-d5	2422		340	3476	0	69.7	35	100	0			
Surrogate: 2-Fluorobiphenyl	2376		340	3476	0	68.4	45	105	0			
Surrogate: Terphenyl-d14	2608		340	3476	0	75.0	30	125	0			
Surrogate: Phenol-d5	3371		340	3476	0	97.0	40	100	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151008A**
Client ID: **NOB-119-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 13:51** SeqNo: **2314984**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 2-Fluorophenol	2725		340	3476	0	78.4	35	105	0			
Surrogate: 2,4,6-Tribromophenol	1887		340	3476	0	54.3	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151007B**

Client ID: **NOB-109-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 7:35** SeqNo: **2315009**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Phenol	2619	40	360	3594	0	72.9	40	100	2597	0.834	40	
Bis(2-chloroethyl)ether	2453	45	360	3594	0	68.2	40	105	2294	6.66	40	
2-Chlorophenol	2503	44	360	3594	0	69.6	45	105	2499	0.179	40	
1,3-Dichlorobenzene	1973	43	360	3594	0	54.9	40	100	2085	5.55	40	
1,4-Dichlorobenzene	2001	39	360	3594	0	55.7	35	105	2069	3.33	40	
1,2-Dichlorobenzene	2162	45	360	3594	0	60.2	45	95	2203	1.88	40	
2-Methylphenol	2675	41	360	3594	0	74.4	40	105	2644	1.16	40	
4-Methylphenol	2687	38	360	3594	0	74.8	40	105	2657	1.11	40	
N-Nitroso-di-n-propylamine	2568	35	360	3594	0	71.4	40	115	2473	3.77	40	
Hexachloroethane	1989	38	360	3594	0	55.4	35	110	2049	2.95	40	
Nitrobenzene	2423	41	360	3594	0	67.4	40	115	2498	3.05	40	
Isophorone	2330	37	360	3594	0	64.8	45	110	2475	6.02	40	
2-Nitrophenol	2377	39	360	3594	0	66.1	40	110	2370	0.304	40	
2,4-Dimethylphenol	2498	39	360	3594	0	69.5	30	105	2658	6.2	40	
2,4-Dichlorophenol	2584	41	360	3594	0	71.9	45	110	2596	0.442	40	
1,2,4-Trichlorobenzene	2184	50	360	3594	0	60.8	45	110	2314	5.76	40	
Naphthalene	2285	44	360	3594	0	63.6	40	105	2368	3.55	40	
4-Chloroaniline	2202	26	360	3594	0	61.3	10	100	2380	7.76	40	
Bis(2-chloroethoxy)methane	2455	42	360	3594	0	68.3	45	110	2570	4.57	40	
Hexachlorobutadiene	2138	49	360	3594	0	59.5	40	115	2279	6.38	40	
4-Chloro-3-methylphenol	2854	28	360	3594	0	79.4	45	115	2893	1.37	40	
2-Methylnaphthalene	2328	45	360	3594	0	64.8	45	105	2451	5.13	40	
Hexachlorocyclopentadiene	1421	100	360	3594	0	39.5	8.0	148	1468	3.3	40	
2,4,6-Trichlorophenol	2574	42	360	3594	0	71.6	45	110	2620	1.76	40	
2,4,5-Trichlorophenol	2744	40	720	3594	0	76.3	50	110	2687	2.08	40	
2-Chloronaphthalene	2456	41	360	3594	0	68.3	45	105	2555	3.95	40	
2-Nitroaniline	3035	23	720	3594	0	84.4	45	120	3056	0.697	40	
Dimethylphthalate	3039	32	360	3594	0	84.6	50	110	3194	4.98	40	
Acenaphthylene	2623	40	360	3594	0	73.0	45	105	2641	0.697	40	
2,6-Dinitrotoluene	2695	30	360	3594	0	75.0	50	110	2809	4.14	40	
3-Nitroaniline	2656	26	720	3594	0	73.9	25	110	2772	4.3	40	
Acenaphthene	2552	42	360	3594	0	71.0	45	110	2582	1.16	40	
2,4-Dinitrophenol	1464	190	720	3594	0	40.7	15	130	1468	0.233	40	
4-Nitrophenol	3100	24	720	3594	0	86.2	15	140	3104	0.131	40	
Dibenzofuran	2665	39	360	3594	0	74.1	50	105	2689	0.897	40	
2,4-Dinitrotoluene	2899	25	360	3594	0	80.7	50	115	2886	0.452	40	
Diethylphthalate	2846	26	360	3594	0	79.2	50	115	2797	1.73	40	
4-Chlorophenyl-phenylether	2745	43	360	3594	0	76.4	45	110	2728	0.646	40	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S

SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151007B**

Client ID: **NOB-109-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 7:35** SeqNo: **2315009**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Fluorene	2672	36	360	3594	0	74.4	50	110	2677	0.155	40	
4-Nitroaniline	3208	27	720	3594	0	89.3	35	115	3104	3.29	40	
4,6-Dinitro-2-methylphenol	1935	27	720	3594	0	53.8	30	135	1717	11.9	40	
N-Nitrosodiphenylamine	2642	31	360	3594	0	73.5	50	115	2783	5.18	40	
4-Bromophenyl-phenylether	2374	35	360	3594	0	66.0	45	115	2431	2.4	40	
Hexachlorobenzene	2316	35	360	3594	0	64.4	45	120	2335	0.812	40	
Pentachlorophenol	1325	150	720	3594	0	36.9	25	120	1291	2.61	40	
Phenanthrene	2650	28	360	3594	0	73.7	50	110	2796	5.37	40	
Anthracene	2642	29	360	3594	0	73.5	55	105	2757	4.25	40	
Carbazole	2774	30	360	3594	0	77.2	45	115	2821	1.69	40	
Di-n-butylphthalate	2814	30	360	3594	0	78.3	55	110	2908	3.3	40	
Fluoranthene	2828	31	360	3594	0	78.7	55	115	2843	0.514	40	
Pyrene	2828	35	360	3594	0	78.7	45	125	2930	3.56	40	
Butylbenzylphthalate	2908	28	360	3594	0	80.9	50	125	3017	3.66	40	
3,3´-Dichlorobenzidine	2829	38	360	3594	0	78.7	10	130	2709	4.33	40	
Benzo(a)anthracene	3129	36	360	3594	0	87.1	50	110	3154	0.782	40	
Chrysene	3035	31	360	3594	0	84.4	55	110	3171	4.39	40	
Bis(2-ethylhexyl)phthalate	3024	31	360	3594	0	84.1	45	125	3078	1.78	40	
Di-n-octylphthalate	3026	30	360	3594	0	84.2	40	130	3301	8.69	40	
Benzo(b)fluoranthene	2759	43	360	3594	0	76.8	45	115	2839	2.88	40	
Benzo(k)fluoranthene	2807	46	360	3594	0	78.1	45	125	2709	3.54	40	
Benzo(a)pyrene	2721	33	360	3594	0	75.7	50	110	2720	0.00897	40	
Indeno(1,2,3-cd)pyrene	2422	40	360	3594	0	67.4	40	120	2317	4.46	40	
Dibenzo(a,h)anthracene	2652	38	360	3594	0	73.8	40	125	2611	1.57	40	
Benzo(g,h,i)perylene	2538	41	360	3594	0	70.6	40	125	2529	0.336	40	
1,1´-Biphenyl	2495	45	360	3594	0	69.4	50	121	2539	1.76	40	
3-Methylphenol + 4-Methylphenol	2687	38	360	3594	0	74.8	40	105	2657	1.11	40	
Acetophenone	2331	33	360	3594	0	64.8	50	150	2391	2.56	40	
Aniline	1223	26	360	3594	0	34.0	10	150	1331	8.49	40	
Azobenzene	2680	35	360	3594	0	74.6	50	150	2847	6.06	40	
Benzyl alcohol	2640	38	360	3594	0	73.5	21	119	2608	1.2	40	
Bis(2-chloroisopropyl)ether	2129	36	360	3594	0	59.2	40	140	2158	1.35	30	
N-Nitrosodimethylamine	2082	37	360	3594	0	57.9	50	150	2132	2.38	40	
Surrogate: Nitrobenzene-d5	2491		360	3594	0	69.3	35	100	0			
Surrogate: 2-Fluorobiphenyl	2455		360	3594	0	68.3	45	105	0			
Surrogate: Terphenyl-d14	2859		360	3594	0	79.5	30	125	0			
Surrogate: Phenol-d5	2676		360	3594	0	74.5	40	100	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8270_S
SW846 8270D -- SVOA by GC-MS

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **SW8270_S** Prep Date: **10/05/15 7:46** Run ID: **S6_151007B**
Client ID: **NOB-109-0002** Batch ID: **83206** Units: **ug/Kg** Analysis Date: **10/08/15 7:35** SeqNo: **2315009**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: 2-Fluorophenol	2632		360	3594	0	73.2	35	105	0			
Surrogate: 2,4,6-Tribromophenol	2155		360	3594	0	60.0	35	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
beta-BHC	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
delta-BHC	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
Heptachlor	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
Aldrin	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
Endosulfan I	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
Dieldrin	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
4,4´-DDE	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
Endrin	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
Endosulfan II	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
4,4´-DDD	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
Endosulfan sulfate	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
4,4´-DDT	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
Methoxychlor	ND		18	ug/Kg	1	10/05/2015 22:19	83195
Endrin ketone	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
Endrin aldehyde	ND		3.6	ug/Kg	1	10/05/2015 22:19	83195
alpha-Chlordane	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
gamma-Chlordane	ND		1.8	ug/Kg	1	10/05/2015 22:19	83195
Toxaphene	ND		180	ug/Kg	1	10/05/2015 22:19	83195
Surrogate: Tetrachloro-m-xylene	57.7		14-113	%REC	1	10/05/2015 22:19	83195
Surrogate: Decachlorobiphenyl	56.5		55-130	%REC	1	10/05/2015 22:19	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
beta-BHC	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
delta-BHC	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
Heptachlor	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
Aldrin	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
Endosulfan I	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
Dieldrin	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
4,4´-DDE	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
Endrin	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
Endosulfan II	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
4,4´-DDD	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
Endosulfan sulfate	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
4,4´-DDT	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
Methoxychlor	ND		18	ug/Kg	1	10/05/2015 22:34	83195
Endrin ketone	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
Endrin aldehyde	ND		3.4	ug/Kg	1	10/05/2015 22:34	83195
alpha-Chlordane	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
gamma-Chlordane	ND		1.8	ug/Kg	1	10/05/2015 22:34	83195
Toxaphene	ND		180	ug/Kg	1	10/05/2015 22:34	83195
Surrogate: Tetrachloro-m-xylene	54.0		14-113	%REC	1	10/05/2015 22:34	83195
Surrogate: Decachlorobiphenyl	50.3	S	55-130	%REC	1	10/05/2015 22:34	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
beta-BHC	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
delta-BHC	1.2	J	1.9	ug/Kg	1	10/05/2015 22:49	83195
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
Heptachlor	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
Aldrin	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
Endosulfan I	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
Dieldrin	ND		3.6	ug/Kg	1	10/05/2015 22:49	83195
4,4´-DDE	8.3		3.6	ug/Kg	1	10/05/2015 22:49	83195
Endrin	ND		3.6	ug/Kg	1	10/05/2015 22:49	83195
Endosulfan II	ND		3.6	ug/Kg	1	10/05/2015 22:49	83195
4,4´-DDD	ND		3.6	ug/Kg	1	10/05/2015 22:49	83195
Endosulfan sulfate	ND		3.6	ug/Kg	1	10/05/2015 22:49	83195
4,4´-DDT	4.6		3.6	ug/Kg	1	10/05/2015 22:49	83195
Methoxychlor	ND		19	ug/Kg	1	10/05/2015 22:49	83195
Endrin ketone	ND		3.6	ug/Kg	1	10/05/2015 22:49	83195
Endrin aldehyde	ND		3.6	ug/Kg	1	10/05/2015 22:49	83195
alpha-Chlordane	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
gamma-Chlordane	ND		1.9	ug/Kg	1	10/05/2015 22:49	83195
Toxaphene	ND		190	ug/Kg	1	10/05/2015 22:49	83195
Surrogate: Tetrachloro-m-xylene	54.0		14-113	%REC	1	10/05/2015 22:49	83195
Surrogate: Decachlorobiphenyl	46.2	S	55-130	%REC	1	10/05/2015 22:49	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
beta-BHC	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
delta-BHC	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
Heptachlor	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
Aldrin	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
Endosulfan I	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
Dieldrin	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
4,4´-DDE	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
Endrin	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
Endosulfan II	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
4,4´-DDD	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
Endosulfan sulfate	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
4,4´-DDT	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
Methoxychlor	ND		18	ug/Kg	1	10/05/2015 23:05	83195
Endrin ketone	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
Endrin aldehyde	ND		3.4	ug/Kg	1	10/05/2015 23:05	83195
alpha-Chlordane	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
gamma-Chlordane	ND		1.8	ug/Kg	1	10/05/2015 23:05	83195
Toxaphene	ND		180	ug/Kg	1	10/05/2015 23:05	83195
Surrogate: Tetrachloro-m-xylene	61.8		14-113	%REC	1	10/05/2015 23:05	83195
Surrogate: Decachlorobiphenyl	60.9		55-130	%REC	1	10/05/2015 23:05	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/05/2015 23:20	83195
beta-BHC	ND		1.9	ug/Kg	1	10/05/2015 23:20	83195
delta-BHC	ND		1.9	ug/Kg	1	10/05/2015 23:20	83195
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/05/2015 23:20	83195
Heptachlor	ND		1.9	ug/Kg	1	10/05/2015 23:20	83195
Aldrin	ND		1.9	ug/Kg	1	10/05/2015 23:20	83195
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/05/2015 23:20	83195
Endosulfan I	ND		1.9	ug/Kg	1	10/05/2015 23:20	83195
Dieldrin	5.8		3.7	ug/Kg	1	10/05/2015 23:20	83195
4,4´-DDE	ND		3.7	ug/Kg	1	10/05/2015 23:20	83195
Endrin	ND		3.7	ug/Kg	1	10/05/2015 23:20	83195
Endosulfan II	ND		3.7	ug/Kg	1	10/05/2015 23:20	83195
4,4´-DDD	ND		3.7	ug/Kg	1	10/05/2015 23:20	83195
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/05/2015 23:20	83195
4,4´-DDT	ND		3.7	ug/Kg	1	10/05/2015 23:20	83195
Methoxychlor	ND		19	ug/Kg	1	10/05/2015 23:20	83195
Endrin ketone	ND		3.7	ug/Kg	1	10/05/2015 23:20	83195
Endrin aldehyde	ND		3.7	ug/Kg	1	10/05/2015 23:20	83195
alpha-Chlordane	3.0	P	1.9	ug/Kg	1	10/05/2015 23:20	83195
gamma-Chlordane	1.7	J	1.9	ug/Kg	1	10/05/2015 23:20	83195
Toxaphene	ND		190	ug/Kg	1	10/05/2015 23:20	83195
Surrogate: Tetrachloro-m-xylene	56.7		14-113	%REC	1	10/05/2015 23:20	83195
Surrogate: Decachlorobiphenyl	52.0	S	55-130	%REC	1	10/05/2015 23:20	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
beta-BHC	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
delta-BHC	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
Heptachlor	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
Aldrin	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
Endosulfan I	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
Dieldrin	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
4,4´-DDE	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
Endrin	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
Endosulfan II	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
4,4´-DDD	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
4,4´-DDT	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
Methoxychlor	ND		19	ug/Kg	1	10/05/2015 23:35	83195
Endrin ketone	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
Endrin aldehyde	ND		3.7	ug/Kg	1	10/05/2015 23:35	83195
alpha-Chlordane	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
gamma-Chlordane	ND		1.9	ug/Kg	1	10/05/2015 23:35	83195
Toxaphene	ND		190	ug/Kg	1	10/05/2015 23:35	83195
Surrogate: Tetrachloro-m-xylene	53.7		14-113	%REC	1	10/05/2015 23:35	83195
Surrogate: Decachlorobiphenyl	48.2	S	55-130	%REC	1	10/05/2015 23:35	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
beta-BHC	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
delta-BHC	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
Heptachlor	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
Aldrin	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
Endosulfan I	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
Dieldrin	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
4,4´-DDE	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
Endrin	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
Endosulfan II	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
4,4´-DDD	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
4,4´-DDT	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
Methoxychlor	ND		18	ug/Kg	1	10/05/2015 23:50	83195
Endrin ketone	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
Endrin aldehyde	ND		3.5	ug/Kg	1	10/05/2015 23:50	83195
alpha-Chlordane	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
gamma-Chlordane	ND		1.8	ug/Kg	1	10/05/2015 23:50	83195
Toxaphene	ND		180	ug/Kg	1	10/05/2015 23:50	83195
Surrogate: Tetrachloro-m-xylene	65.4		14-113	%REC	1	10/05/2015 23:50	83195
Surrogate: Decachlorobiphenyl	59.3		55-130	%REC	1	10/05/2015 23:50	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
beta-BHC	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
delta-BHC	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
Heptachlor	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
Aldrin	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
Endosulfan I	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
Dieldrin	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
4,4´-DDE	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
Endrin	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
Endosulfan II	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
4,4´-DDD	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
4,4´-DDT	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
Methoxychlor	ND		18	ug/Kg	1	10/06/2015 0:36	83195
Endrin ketone	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
Endrin aldehyde	ND		3.5	ug/Kg	1	10/06/2015 0:36	83195
alpha-Chlordane	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
gamma-Chlordane	ND		1.8	ug/Kg	1	10/06/2015 0:36	83195
Toxaphene	ND		180	ug/Kg	1	10/06/2015 0:36	83195
Surrogate: Tetrachloro-m-xylene	56.1		14-113	%REC	1	10/06/2015 0:36	83195
Surrogate: Decachlorobiphenyl	47.4	S	55-130	%REC	1	10/06/2015 0:36	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 0:51	83195
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 0:51	83195
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 0:51	83195
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 0:51	83195
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 0:51	83195
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 0:51	83195
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 0:51	83195
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 0:51	83195
Dieldrin	5.0		3.7	ug/Kg	1	10/06/2015 0:51	83195
4,4´-DDE	ND		3.7	ug/Kg	1	10/06/2015 0:51	83195
Endrin	ND		3.7	ug/Kg	1	10/06/2015 0:51	83195
Endosulfan II	ND		3.7	ug/Kg	1	10/06/2015 0:51	83195
4,4´-DDD	2.2	J	3.7	ug/Kg	1	10/06/2015 0:51	83195
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/06/2015 0:51	83195
4,4´-DDT	ND		3.7	ug/Kg	1	10/06/2015 0:51	83195
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 0:51	83195
Endrin ketone	ND		3.7	ug/Kg	1	10/06/2015 0:51	83195
Endrin aldehyde	ND		3.7	ug/Kg	1	10/06/2015 0:51	83195
alpha-Chlordane	5.0	P	1.9	ug/Kg	1	10/06/2015 0:51	83195
gamma-Chlordane	2.5		1.9	ug/Kg	1	10/06/2015 0:51	83195
Toxaphene	ND		190	ug/Kg	1	10/06/2015 0:51	83195
Surrogate: Tetrachloro-m-xylene	63.1		14-113	%REC	1	10/06/2015 0:51	83195
Surrogate: Decachlorobiphenyl	51.0	S	55-130	%REC	1	10/06/2015 0:51	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
beta-BHC	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
delta-BHC	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
gamma-BHC (Lindane)	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
Heptachlor	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
Aldrin	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
Heptachlor epoxide	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
Endosulfan I	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
Dieldrin	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
4,4´-DDE	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
Endrin	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
Endosulfan II	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
4,4´-DDD	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
Endosulfan sulfate	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
4,4´-DDT	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
Methoxychlor	ND		22	ug/Kg	1	10/06/2015 1:07	83195
Endrin ketone	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
Endrin aldehyde	ND		4.2	ug/Kg	1	10/06/2015 1:07	83195
alpha-Chlordane	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
gamma-Chlordane	ND		2.2	ug/Kg	1	10/06/2015 1:07	83195
Toxaphene	ND		220	ug/Kg	1	10/06/2015 1:07	83195
Surrogate: Tetrachloro-m-xylene	61.6		14-113	%REC	1	10/06/2015 1:07	83195
Surrogate: Decachlorobiphenyl	63.8		55-130	%REC	1	10/06/2015 1:07	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02 **Project:** Barrington, RI site
Lab ID: P1467-11 **Collection Date:** 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 1:22	83195
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 1:22	83195
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 1:22	83195
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 1:22	83195
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 1:22	83195
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 1:22	83195
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 1:22	83195
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 1:22	83195
Dieldrin	4.8		3.8	ug/Kg	1	10/06/2015 1:22	83195
4,4´-DDE	ND		3.8	ug/Kg	1	10/06/2015 1:22	83195
Endrin	ND		3.8	ug/Kg	1	10/06/2015 1:22	83195
Endosulfan II	ND		3.8	ug/Kg	1	10/06/2015 1:22	83195
4,4´-DDD	3.1	J	3.8	ug/Kg	1	10/06/2015 1:22	83195
Endosulfan sulfate	ND		3.8	ug/Kg	1	10/06/2015 1:22	83195
4,4´-DDT	ND		3.8	ug/Kg	1	10/06/2015 1:22	83195
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 1:22	83195
Endrin ketone	ND		3.8	ug/Kg	1	10/06/2015 1:22	83195
Endrin aldehyde	ND		3.8	ug/Kg	1	10/06/2015 1:22	83195
alpha-Chlordane	6.0	P	1.9	ug/Kg	1	10/06/2015 1:22	83195
gamma-Chlordane	3.1		1.9	ug/Kg	1	10/06/2015 1:22	83195
Toxaphene	ND		190	ug/Kg	1	10/06/2015 1:22	83195
Surrogate: Tetrachloro-m-xylene	60.7		14-113	%REC	1	10/06/2015 1:22	83195
Surrogate: Decachlorobiphenyl	61.7		55-130	%REC	1	10/06/2015 1:22	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002 **Project:** Barrington, RI site
Lab ID: P1467-12 **Collection Date:** 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		4.2	ug/Kg	2	10/06/2015 18:23	83195
beta-BHC	ND		4.2	ug/Kg	2	10/06/2015 18:23	83195
delta-BHC	ND		4.2	ug/Kg	2	10/06/2015 18:23	83195
gamma-BHC (Lindane)	ND		4.2	ug/Kg	2	10/06/2015 18:23	83195
Heptachlor	ND		4.2	ug/Kg	2	10/06/2015 18:23	83195
Aldrin	3.3	J	4.2	ug/Kg	2	10/06/2015 18:23	83195
Heptachlor epoxide	5.2		4.2	ug/Kg	2	10/06/2015 18:23	83195
Endosulfan I	ND		4.2	ug/Kg	2	10/06/2015 18:23	83195
Dieldrin	38		8.2	ug/Kg	2	10/06/2015 18:23	83195
4,4´-DDE	10		8.2	ug/Kg	2	10/06/2015 18:23	83195
Endrin	ND		8.2	ug/Kg	2	10/06/2015 18:23	83195
Endosulfan II	4.2	J	8.2	ug/Kg	2	10/06/2015 18:23	83195
4,4´-DDD	16		8.2	ug/Kg	2	10/06/2015 18:23	83195
Endosulfan sulfate	ND		8.2	ug/Kg	2	10/06/2015 18:23	83195
4,4´-DDT	ND		8.2	ug/Kg	2	10/06/2015 18:23	83195
Methoxychlor	ND		42	ug/Kg	2	10/06/2015 18:23	83195
Endrin ketone	ND		8.2	ug/Kg	2	10/06/2015 18:23	83195
Endrin aldehyde	ND		8.2	ug/Kg	2	10/06/2015 18:23	83195
alpha-Chlordane	55		4.2	ug/Kg	2	10/06/2015 18:23	83195
gamma-Chlordane	29		4.2	ug/Kg	2	10/06/2015 18:23	83195
Toxaphene	ND		420	ug/Kg	2	10/06/2015 18:23	83195
Surrogate: Tetrachloro-m-xylene	49.9		14-113	%REC	2	10/06/2015 18:23	83195
Surrogate: Decachlorobiphenyl	60.9		55-130	%REC	2	10/06/2015 18:23	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507 **Project:** Barrington, RI site
Lab ID: P1467-13 **Collection Date:** 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
Dieldrin	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
4,4´-DDE	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
Endrin	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
Endosulfan II	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
4,4´-DDD	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
4,4´-DDT	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 1:52	83195
Endrin ketone	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
Endrin aldehyde	ND		3.7	ug/Kg	1	10/06/2015 1:52	83195
alpha-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 1:52	83195
Toxaphene	ND		190	ug/Kg	1	10/06/2015 1:52	83195
Surrogate: Tetrachloro-m-xylene	43.1		14-113	%REC	1	10/06/2015 1:52	83195
Surrogate: Decachlorobiphenyl	35.5	S	55-130	%REC	1	10/06/2015 1:52	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002 **Project:** Barrington, RI site
Lab ID: P1467-14 **Collection Date:** 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
beta-BHC	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
delta-BHC	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
gamma-BHC (Lindane)	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
Heptachlor	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
Aldrin	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
Heptachlor epoxide	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
Endosulfan I	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
Dieldrin	ND		4.0	ug/Kg	1	10/06/2015 2:07	83195
4,4´-DDE	2.9	J	4.0	ug/Kg	1	10/06/2015 2:07	83195
Endrin	ND		4.0	ug/Kg	1	10/06/2015 2:07	83195
Endosulfan II	ND		4.0	ug/Kg	1	10/06/2015 2:07	83195
4,4´-DDD	ND		4.0	ug/Kg	1	10/06/2015 2:07	83195
Endosulfan sulfate	ND		4.0	ug/Kg	1	10/06/2015 2:07	83195
4,4´-DDT	ND		4.0	ug/Kg	1	10/06/2015 2:07	83195
Methoxychlor	ND		20	ug/Kg	1	10/06/2015 2:07	83195
Endrin ketone	ND		4.0	ug/Kg	1	10/06/2015 2:07	83195
Endrin aldehyde	ND		4.0	ug/Kg	1	10/06/2015 2:07	83195
alpha-Chlordane	1.5	JP	2.0	ug/Kg	1	10/06/2015 2:07	83195
gamma-Chlordane	ND		2.0	ug/Kg	1	10/06/2015 2:07	83195
Toxaphene	ND		200	ug/Kg	1	10/06/2015 2:07	83195
Surrogate: Tetrachloro-m-xylene	52.4		14-113	%REC	1	10/06/2015 2:07	83195
Surrogate: Decachlorobiphenyl	53.6	S	55-130	%REC	1	10/06/2015 2:07	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012 **Project:** Barrington, RI site
Lab ID: P1467-15 **Collection Date:** 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
beta-BHC	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
delta-BHC	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
gamma-BHC (Lindane)	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
Heptachlor	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
Aldrin	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
Heptachlor epoxide	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
Endosulfan I	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
Dieldrin	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
4,4´-DDE	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
Endrin	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
Endosulfan II	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
4,4´-DDD	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
Endosulfan sulfate	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
4,4´-DDT	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
Methoxychlor	ND		20	ug/Kg	1	10/06/2015 2:23	83195
Endrin ketone	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
Endrin aldehyde	ND		3.9	ug/Kg	1	10/06/2015 2:23	83195
alpha-Chlordane	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
gamma-Chlordane	ND		2.0	ug/Kg	1	10/06/2015 2:23	83195
Toxaphene	ND		200	ug/Kg	1	10/06/2015 2:23	83195
Surrogate: Tetrachloro-m-xylene	40.4		14-113	%REC	1	10/06/2015 2:23	83195
Surrogate: Decachlorobiphenyl	33.7	S	55-130	%REC	1	10/06/2015 2:23	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/06/2015 2:38	83195
beta-BHC	ND		1.8	ug/Kg	1	10/06/2015 2:38	83195
delta-BHC	ND		1.8	ug/Kg	1	10/06/2015 2:38	83195
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/06/2015 2:38	83195
Heptachlor	ND		1.8	ug/Kg	1	10/06/2015 2:38	83195
Aldrin	ND		1.8	ug/Kg	1	10/06/2015 2:38	83195
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/06/2015 2:38	83195
Endosulfan I	ND		1.8	ug/Kg	1	10/06/2015 2:38	83195
Dieldrin	ND		3.5	ug/Kg	1	10/06/2015 2:38	83195
4,4´-DDE	7.0		3.5	ug/Kg	1	10/06/2015 2:38	83195
Endrin	ND		3.5	ug/Kg	1	10/06/2015 2:38	83195
Endosulfan II	ND		3.5	ug/Kg	1	10/06/2015 2:38	83195
4,4´-DDD	2.4	J	3.5	ug/Kg	1	10/06/2015 2:38	83195
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/06/2015 2:38	83195
4,4´-DDT	4.6		3.5	ug/Kg	1	10/06/2015 2:38	83195
Methoxychlor	ND		18	ug/Kg	1	10/06/2015 2:38	83195
Endrin ketone	ND		3.5	ug/Kg	1	10/06/2015 2:38	83195
Endrin aldehyde	ND		3.5	ug/Kg	1	10/06/2015 2:38	83195
alpha-Chlordane	2.3	P	1.8	ug/Kg	1	10/06/2015 2:38	83195
gamma-Chlordane	1.2	J	1.8	ug/Kg	1	10/06/2015 2:38	83195
Toxaphene	ND		180	ug/Kg	1	10/06/2015 2:38	83195
Surrogate: Tetrachloro-m-xylene	53.8		14-113	%REC	1	10/06/2015 2:38	83195
Surrogate: Decachlorobiphenyl	47.1	S	55-130	%REC	1	10/06/2015 2:38	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
Dieldrin	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
4,4´-DDE	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
Endrin	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
Endosulfan II	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
4,4´-DDD	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
4,4´-DDT	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 3:24	83195
Endrin ketone	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
Endrin aldehyde	ND		3.7	ug/Kg	1	10/06/2015 3:24	83195
alpha-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 3:24	83195
Toxaphene	ND		190	ug/Kg	1	10/06/2015 3:24	83195
Surrogate: Tetrachloro-m-xylene	55.3		14-113	%REC	1	10/06/2015 3:24	83195
Surrogate: Decachlorobiphenyl	50.0	S	55-130	%REC	1	10/06/2015 3:24	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		2.0	ug/Kg	1	10/06/2015 3:39	83195
beta-BHC	ND		2.0	ug/Kg	1	10/06/2015 3:39	83195
delta-BHC	ND		2.0	ug/Kg	1	10/06/2015 3:39	83195
gamma-BHC (Lindane)	ND		2.0	ug/Kg	1	10/06/2015 3:39	83195
Heptachlor	ND		2.0	ug/Kg	1	10/06/2015 3:39	83195
Aldrin	ND		2.0	ug/Kg	1	10/06/2015 3:39	83195
Heptachlor epoxide	2.1	P	2.0	ug/Kg	1	10/06/2015 3:39	83195
Endosulfan I	ND		2.0	ug/Kg	1	10/06/2015 3:39	83195
Dieldrin	2.2	J	3.8	ug/Kg	1	10/06/2015 3:39	83195
4,4´-DDE	17		3.8	ug/Kg	1	10/06/2015 3:39	83195
Endrin	ND		3.8	ug/Kg	1	10/06/2015 3:39	83195
Endosulfan II	ND		3.8	ug/Kg	1	10/06/2015 3:39	83195
4,4´-DDD	8.4		3.8	ug/Kg	1	10/06/2015 3:39	83195
Endosulfan sulfate	ND		3.8	ug/Kg	1	10/06/2015 3:39	83195
4,4´-DDT	15		3.8	ug/Kg	1	10/06/2015 3:39	83195
Methoxychlor	ND		20	ug/Kg	1	10/06/2015 3:39	83195
Endrin ketone	ND		3.8	ug/Kg	1	10/06/2015 3:39	83195
Endrin aldehyde	ND		3.8	ug/Kg	1	10/06/2015 3:39	83195
alpha-Chlordane	19	P	2.0	ug/Kg	1	10/06/2015 3:39	83195
gamma-Chlordane	9.3		2.0	ug/Kg	1	10/06/2015 3:39	83195
Toxaphene	ND		200	ug/Kg	1	10/06/2015 3:39	83195
Surrogate: Tetrachloro-m-xylene	63.4		14-113	%REC	1	10/06/2015 3:39	83195
Surrogate: Decachlorobiphenyl	59.9		55-130	%REC	1	10/06/2015 3:39	83195

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507 **Project:** Barrington, RI site
Lab ID: P1467-19 **Collection Date:** 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
beta-BHC	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
delta-BHC	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
Heptachlor	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
Aldrin	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
Heptachlor epoxide	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
Endosulfan I	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
Dieldrin	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
4,4´-DDE	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
Endrin	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
Endosulfan II	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
4,4´-DDD	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
Endosulfan sulfate	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
4,4´-DDT	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
Methoxychlor	ND		18	ug/Kg	1	10/06/2015 3:54	83203
Endrin ketone	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
Endrin aldehyde	ND		3.5	ug/Kg	1	10/06/2015 3:54	83203
alpha-Chlordane	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
gamma-Chlordane	ND		1.8	ug/Kg	1	10/06/2015 3:54	83203
Toxaphene	ND		180	ug/Kg	1	10/06/2015 3:54	83203
Surrogate: Tetrachloro-m-xylene	58.6		14-113	%REC	1	10/06/2015 3:54	83203
Surrogate: Decachlorobiphenyl	48.6	S	55-130	%REC	1	10/06/2015 3:54	83203

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/06/2015 4:09	83203
beta-BHC	ND		1.8	ug/Kg	1	10/06/2015 4:09	83203
delta-BHC	ND		1.8	ug/Kg	1	10/06/2015 4:09	83203
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/06/2015 4:09	83203
Heptachlor	ND		1.8	ug/Kg	1	10/06/2015 4:09	83203
Aldrin	ND		1.8	ug/Kg	1	10/06/2015 4:09	83203
Heptachlor epoxide	0.98	JP	1.8	ug/Kg	1	10/06/2015 4:09	83203
Endosulfan I	ND		1.8	ug/Kg	1	10/06/2015 4:09	83203
Dieldrin	ND		3.4	ug/Kg	1	10/06/2015 4:09	83203
4,4´-DDE	3.6		3.4	ug/Kg	1	10/06/2015 4:09	83203
Endrin	ND		3.4	ug/Kg	1	10/06/2015 4:09	83203
Endosulfan II	ND		3.4	ug/Kg	1	10/06/2015 4:09	83203
4,4´-DDD	3.9		3.4	ug/Kg	1	10/06/2015 4:09	83203
Endosulfan sulfate	ND		3.4	ug/Kg	1	10/06/2015 4:09	83203
4,4´-DDT	3.5		3.4	ug/Kg	1	10/06/2015 4:09	83203
Methoxychlor	ND		18	ug/Kg	1	10/06/2015 4:09	83203
Endrin ketone	ND		3.4	ug/Kg	1	10/06/2015 4:09	83203
Endrin aldehyde	ND		3.4	ug/Kg	1	10/06/2015 4:09	83203
alpha-Chlordane	8.5	P	1.8	ug/Kg	1	10/06/2015 4:09	83203
gamma-Chlordane	4.8		1.8	ug/Kg	1	10/06/2015 4:09	83203
Toxaphene	ND		180	ug/Kg	1	10/06/2015 4:09	83203
Surrogate: Tetrachloro-m-xylene	61.2		14-113	%REC	1	10/06/2015 4:09	83203
Surrogate: Decachlorobiphenyl	53.2	S	55-130	%REC	1	10/06/2015 4:09	83203

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01 **Project:** Barrington, RI site
Lab ID: P1467-21 **Collection Date:** 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.8	ug/Kg	1	10/06/2015 4:24	83203
beta-BHC	ND		1.8	ug/Kg	1	10/06/2015 4:24	83203
delta-BHC	ND		1.8	ug/Kg	1	10/06/2015 4:24	83203
gamma-BHC (Lindane)	ND		1.8	ug/Kg	1	10/06/2015 4:24	83203
Heptachlor	ND		1.8	ug/Kg	1	10/06/2015 4:24	83203
Aldrin	ND		1.8	ug/Kg	1	10/06/2015 4:24	83203
Heptachlor epoxide	1.3	JP	1.8	ug/Kg	1	10/06/2015 4:24	83203
Endosulfan I	ND		1.8	ug/Kg	1	10/06/2015 4:24	83203
Dieldrin	ND		3.4	ug/Kg	1	10/06/2015 4:24	83203
4,4´-DDE	3.3	J	3.4	ug/Kg	1	10/06/2015 4:24	83203
Endrin	ND		3.4	ug/Kg	1	10/06/2015 4:24	83203
Endosulfan II	ND		3.4	ug/Kg	1	10/06/2015 4:24	83203
4,4´-DDD	2.6	J	3.4	ug/Kg	1	10/06/2015 4:24	83203
Endosulfan sulfate	ND		3.4	ug/Kg	1	10/06/2015 4:24	83203
4,4´-DDT	2.7	J	3.4	ug/Kg	1	10/06/2015 4:24	83203
Methoxychlor	ND		18	ug/Kg	1	10/06/2015 4:24	83203
Endrin ketone	ND		3.4	ug/Kg	1	10/06/2015 4:24	83203
Endrin aldehyde	ND		3.4	ug/Kg	1	10/06/2015 4:24	83203
alpha-Chlordane	7.8	P	1.8	ug/Kg	1	10/06/2015 4:24	83203
gamma-Chlordane	4.5		1.8	ug/Kg	1	10/06/2015 4:24	83203
Toxaphene	ND		180	ug/Kg	1	10/06/2015 4:24	83203
Surrogate: Tetrachloro-m-xylene	66.0		14-113	%REC	1	10/06/2015 4:24	83203
Surrogate: Decachlorobiphenyl	58.7		55-130	%REC	1	10/06/2015 4:24	83203

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709 **Project:** Barrington, RI site
Lab ID: P1467-22 **Collection Date:** 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8081B -- Organochlorine Pesticides by GC-ECD							**SW8081_S**
alpha-BHC	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
beta-BHC	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
delta-BHC	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
gamma-BHC (Lindane)	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
Heptachlor	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
Aldrin	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
Heptachlor epoxide	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
Endosulfan I	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
Dieldrin	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
4,4´-DDE	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
Endrin	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
Endosulfan II	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
4,4´-DDD	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
Endosulfan sulfate	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
4,4´-DDT	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
Methoxychlor	ND		19	ug/Kg	1	10/06/2015 4:40	83203
Endrin ketone	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
Endrin aldehyde	ND		3.7	ug/Kg	1	10/06/2015 4:40	83203
alpha-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
gamma-Chlordane	ND		1.9	ug/Kg	1	10/06/2015 4:40	83203
Toxaphene	ND		190	ug/Kg	1	10/06/2015 4:40	83203
Surrogate: Tetrachloro-m-xylene	62.5		14-113	%REC	1	10/06/2015 4:40	83203
Surrogate: Decachlorobiphenyl	58.5		55-130	%REC	1	10/06/2015 4:40	83203

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **MB-83195** SampType: **MBLK** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005A**
Client ID: **MB-83195** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/05/15 17:29** SeqNo: **2313300**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.056	1.7									
beta-BHC	ND	0.063	1.7									
delta-BHC	ND	0.12	1.7									
gamma-BHC (Lindane)	ND	0.055	1.7									
Heptachlor	ND	0.072	1.7									
Aldrin	ND	0.11	1.7									
Heptachlor epoxide	ND	0.16	1.7									
Endosulfan I	ND	0.060	1.7									
Dieldrin	ND	0.16	3.3									
4,4´-DDE	ND	0.25	3.3									
Endrin	ND	0.14	3.3									
Endosulfan II	ND	0.15	3.3									
4,4´-DDD	ND	0.22	3.3									
Endosulfan sulfate	ND	0.13	3.3									
4,4´-DDT	ND	0.33	3.3									
Methoxychlor	ND	0.88	17									
Endrin ketone	ND	0.12	3.3									
Endrin aldehyde	ND	0.23	3.3									
alpha-Chlordane	ND	0.087	1.7									
gamma-Chlordane	ND	0.21	1.7									
Toxaphene	ND	8.8	170									
Surrogate: Decachlorobiphenyl	33.44		3.3	40.00	0	83.6	55	130	0			

Sample ID: **MB-83195** SampType: **MBLK** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005B**
Client ID: **MB-83195** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/05/15 17:29** SeqNo: **2313392**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	14.22		1.7	20.00	0	71.1	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **MB-83203** SampType: **MBLK** TestCode: **SW8081_S** Prep Date: **10/03/15 12:44** Run ID: **E6_151005A**
Client ID: **MB-83203** Batch ID: **83203** Units: **ug/Kg** Analysis Date **10/05/15 15:57** SeqNo: **2313294**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	ND	0.056	1.7									
beta-BHC	ND	0.063	1.7									
delta-BHC	ND	0.12	1.7									
gamma-BHC (Lindane)	ND	0.055	1.7									
Heptachlor	ND	0.072	1.7									
Aldrin	ND	0.11	1.7									
Heptachlor epoxide	ND	0.16	1.7									
Endosulfan I	ND	0.060	1.7									
Dieldrin	ND	0.16	3.3									
4,4´-DDE	ND	0.25	3.3									
Endrin	ND	0.14	3.3									
Endosulfan II	ND	0.15	3.3									
4,4´-DDD	ND	0.22	3.3									
Endosulfan sulfate	ND	0.13	3.3									
4,4´-DDT	ND	0.33	3.3									
Methoxychlor	ND	0.88	17									
Endrin ketone	ND	0.12	3.3									
Endrin aldehyde	ND	0.23	3.3									
alpha-Chlordane	ND	0.087	1.7									
gamma-Chlordane	ND	0.21	1.7									
Toxaphene	ND	8.8	170									
Surrogate: Decachlorobiphenyl	30.78		3.3	40.00	0	77.0	55	130	0			

Sample ID: **MB-83203** SampType: **MBLK** TestCode: **SW8081_S** Prep Date: **10/03/15 12:44** Run ID: **E6_151005B**
Client ID: **MB-83203** Batch ID: **83203** Units: **ug/Kg** Analysis Date **10/05/15 15:57** SeqNo: **2313386**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	13.42		1.7	20.00	0	67.1	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCS-83195** SampType: **LCS** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005A**
Client ID: **LCS-83195** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/05/15 17:44** SeqNo: **2313301**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	5.292	0.056	1.7	6.667	0	79.4	60	125	0			
beta-BHC	5.712	0.063	1.7	6.667	0	85.7	60	125	0			
delta-BHC	5.088	0.12	1.7	6.667	0	76.3	55	130	0			
gamma-BHC (Lindane)	5.411	0.055	1.7	6.667	0	81.2	60	125	0			
Heptachlor	5.054	0.072	1.7	6.667	0	75.8	50	140	0			
Aldrin	5.392	0.11	1.7	6.667	0	80.9	45	140	0			
Heptachlor epoxide	5.434	0.16	1.7	6.667	0	81.5	65	130	0			
Endosulfan I	5.278	0.060	1.7	6.667	0	79.2	15	135	0			
Dieldrin	10.81	0.16	3.3	13.33	0	81.1	65	125	0			
4,4´-DDE	10.93	0.25	3.3	13.33	0	81.9	70	125	0			
Endrin	11.00	0.14	3.3	13.33	0	82.5	60	135	0			
Endosulfan II	10.26	0.15	3.3	13.33	0	77.0	35	140	0			
4,4´-DDD	9.857	0.22	3.3	13.33	0	73.9	30	135	0			
Endosulfan sulfate	10.78	0.13	3.3	13.33	0	80.8	60	135	0			
4,4´-DDT	9.575	0.33	3.3	13.33	0	71.8	45	140	0			
Methoxychlor	48.31	0.88	17	66.67	0	72.5	55	145	0			
Endrin ketone	10.23	0.12	3.3	13.33	0	76.7	65	135	0			
Endrin aldehyde	10.65	0.23	3.3	13.33	0	79.8	35	145	0			
alpha-Chlordane	5.448	0.087	1.7	6.667	0	81.7	65	120	0			
gamma-Chlordane	5.247	0.21	1.7	6.667	0	78.7	65	125	0			
Surrogate: Decachlorobiphenyl	34.35		3.3	40.00	0	85.9	55	130	0			

Sample ID: **LCS-83195** SampType: **LCS** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005B**
Client ID: **LCS-83195** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/05/15 17:44** SeqNo: **2313393**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	16.07		1.7	20.00	0	80.4	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCS-83203** SampType: **LCS** TestCode: **SW8081_S** Prep Date: **10/03/15 12:44** Run ID: **E6_151005A**
Client ID: **LCS-83203** Batch ID: **83203** Units: **ug/Kg** Analysis Date **10/05/15 16:13** SeqNo: **2313295**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	5.232	0.056	1.7	6.667	0	78.5	60	125	0			
beta-BHC	5.484	0.063	1.7	6.667	0	82.3	60	125	0			
delta-BHC	4.944	0.12	1.7	6.667	0	74.2	55	130	0			
gamma-BHC (Lindane)	5.270	0.055	1.7	6.667	0	79.0	60	125	0			
Heptachlor	4.893	0.072	1.7	6.667	0	73.4	50	140	0			
Aldrin	5.257	0.11	1.7	6.667	0	78.9	45	140	0			
Heptachlor epoxide	5.320	0.16	1.7	6.667	0	79.8	65	130	0			
Endosulfan I	5.128	0.060	1.7	6.667	0	76.9	15	135	0			
Dieldrin	10.49	0.16	3.3	13.33	0	78.7	65	125	0			
4,4´-DDE	10.70	0.25	3.3	13.33	0	80.3	70	125	0			
Endrin	10.83	0.14	3.3	13.33	0	81.2	60	135	0			
Endosulfan II	9.965	0.15	3.3	13.33	0	74.7	35	140	0			
4,4´-DDD	9.515	0.22	3.3	13.33	0	71.4	30	135	0			
Endosulfan sulfate	10.32	0.13	3.3	13.33	0	77.4	60	135	0			
4,4´-DDT	9.465	0.33	3.3	13.33	0	71.0	45	140	0			
Methoxychlor	47.70	0.88	17	66.67	0	71.5	55	145	0			
Endrin ketone	10.16	0.12	3.3	13.33	0	76.2	65	135	0			
Endrin aldehyde	10.44	0.23	3.3	13.33	0	78.3	35	145	0			
alpha-Chlordane	5.225	0.087	1.7	6.667	0	78.4	65	120	0			
gamma-Chlordane	5.109	0.21	1.7	6.667	0	76.6	65	125	0			
Surrogate: Decachlorobiphenyl	32.65		3.3	40.00	0	81.6	55	130	0			

Sample ID: **LCS-83203** SampType: **LCS** TestCode: **SW8081_S** Prep Date: **10/03/15 12:44** Run ID: **E6_151005B**
Client ID: **LCS-83203** Batch ID: **83203** Units: **ug/Kg** Analysis Date **10/05/15 16:13** SeqNo: **2313387**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	15.95		1.7	20.00	0	79.7	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **LCSD-83203** SampType: **LCSD** TestCode: **SW8081_S** Prep Date: **10/03/15 12:44** Run ID: **E6_151005A**
Client ID: **LCSD-83203** Batch ID: **83203** Units: **ug/Kg** Analysis Date **10/05/15 16:28** SeqNo: **2313296**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	5.294	0.056	1.7	6.667	0	79.4	60	125	5.232	1.17	30	
beta-BHC	5.491	0.063	1.7	6.667	0	82.4	60	125	5.484	0.141	30	
delta-BHC	4.948	0.12	1.7	6.667	0	74.2	55	130	4.944	0.0721	30	
gamma-BHC (Lindane)	5.297	0.055	1.7	6.667	0	79.5	60	125	5.270	0.52	30	
Heptachlor	4.918	0.072	1.7	6.667	0	73.8	50	140	4.893	0.521	30	
Aldrin	5.291	0.11	1.7	6.667	0	79.4	45	140	5.257	0.641	30	
Heptachlor epoxide	5.345	0.16	1.7	6.667	0	80.2	65	130	5.320	0.456	30	
Endosulfan I	5.134	0.060	1.7	6.667	0	77.0	15	135	5.128	0.121	30	
Dieldrin	10.53	0.16	3.3	13.33	0	78.9	65	125	10.49	0.34	30	
4,4´-DDE	10.68	0.25	3.3	13.33	0	80.1	70	125	10.70	0.244	30	
Endrin	10.88	0.14	3.3	13.33	0	81.6	60	135	10.83	0.415	30	
Endosulfan II	9.921	0.15	3.3	13.33	0	74.4	35	140	9.965	0.442	30	
4,4´-DDD	9.448	0.22	3.3	13.33	0	70.9	30	135	9.515	0.704	30	
Endosulfan sulfate	10.22	0.13	3.3	13.33	0	76.6	60	135	10.32	1.04	30	
4,4´-DDT	9.424	0.33	3.3	13.33	0	70.7	45	140	9.465	0.434	30	
Methoxychlor	46.96	0.88	17	66.67	0	70.4	55	145	47.70	1.56	30	
Endrin ketone	9.984	0.12	3.3	13.33	0	74.9	65	135	10.16	1.78	30	
Endrin aldehyde	10.38	0.23	3.3	13.33	0	77.9	35	145	10.44	0.57	30	
alpha-Chlordane	5.247	0.087	1.7	6.667	0	78.7	65	120	5.225	0.425	30	
gamma-Chlordane	5.151	0.21	1.7	6.667	0	77.3	65	125	5.109	0.822	30	
Surrogate: Decachlorobiphenyl	32.18		3.3	40.00	0	80.5	55	130	0			

Sample ID: **LCSD-83203** SampType: **LCSD** TestCode: **SW8081_S** Prep Date: **10/03/15 12:44** Run ID: **E6_151005B**
Client ID: **LCSD-83203** Batch ID: **83203** Units: **ug/Kg** Analysis Date **10/05/15 16:28** SeqNo: **2313388**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	16.12		1.7	20.00	0	80.6	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005A**
Client ID: **NOB-119-0002** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/06/15 0:06** SeqNo: **2313323**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	4.032	0.059	1.8	7.068	0	57.0	60	125	0			S
beta-BHC	5.278	0.067	1.8	7.068	0	74.7	60	125	0			
delta-BHC	4.670	0.13	1.8	7.068	0	66.1	55	130	0			
gamma-BHC (Lindane)	4.204	0.058	1.8	7.068	0	59.5	60	125	0			S
Heptachlor	4.708	0.076	1.8	7.068	0	66.6	50	140	0			
Aldrin	4.261	0.12	1.8	7.068	0	60.3	45	140	0			
Heptachlor epoxide	5.578	0.17	1.8	7.068	0	78.9	65	130	0			
Endosulfan I	4.468	0.064	1.8	7.068	0	63.2	15	135	0			
Dieldrin	9.873	0.17	3.5	14.13	0	69.8	65	125	0			
4,4´-DDE	10.11	0.27	3.5	14.13	0	71.5	70	125	0			
Endrin	10.31	0.15	3.5	14.13	0	72.9	60	135	0			
Endosulfan II	9.526	0.16	3.5	14.13	0	67.4	35	140	0			
4,4´-DDD	9.955	0.23	3.5	14.13	0	70.4	30	135	0			
Endosulfan sulfate	9.755	0.14	3.5	14.13	0	69.0	60	135	0			
4,4´-DDT	11.30	0.35	3.5	14.13	0	79.9	45	140	0			
Methoxychlor	58.16	0.93	18	70.67	0	82.3	55	145	0			
Endrin ketone	10.32	0.13	3.5	14.13	0	73.0	65	135	0			
Endrin aldehyde	5.544	0.24	3.5	14.13	0	39.2	35	145	0			
alpha-Chlordane	7.037	0.092	1.8	7.068	0	99.6	65	120	0			
gamma-Chlordane	4.741	0.22	1.8	7.068	0	67.1	65	125	0			
Surrogate: Tetrachloro-m-xylene	13.47		1.8	21.20	0	63.5	14	113	0			
Surrogate: Decachlorobiphenyl	35.89		3.5	42.40	0	84.6	55	130	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005A**
Client ID: **NOB-109-0002** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/06/15 2:53** SeqNo: **2313333**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	3.484	0.060	1.8	7.189	0	48.5	60	125	0			S
beta-BHC	4.344	0.068	1.8	7.189	0	60.4	60	125	0			
delta-BHC	3.918	0.13	1.8	7.189	0	54.5	55	130	0			S
gamma-BHC (Lindane)	3.485	0.059	1.8	7.189	0	48.5	60	125	0			S
Heptachlor	4.219	0.078	1.8	7.189	0	58.7	50	140	0			
Aldrin	3.610	0.12	1.8	7.189	0	50.2	45	140	0			
Heptachlor epoxide	3.667	0.17	1.8	7.189	0	51.0	65	130	0			S
Endosulfan I	3.575	0.065	1.8	7.189	0	49.7	15	135	0			
Dieldrin	6.944	0.17	3.6	14.38	0	48.3	65	125	0			S
4,4´-DDE	10.74	0.27	3.6	14.38	7.008	25.9	70	125	0			S
Endrin	7.574	0.15	3.6	14.38	0	52.7	60	135	0			S
Endosulfan II	6.926	0.16	3.6	14.38	0	48.2	35	140	0			
4,4´-DDD	6.686	0.24	3.6	14.38	2.354	30.1	30	135	0			
Endosulfan sulfate	6.705	0.14	3.6	14.38	0	46.6	60	135	0			S
4,4´-DDT	9.465	0.36	3.6	14.38	4.614	33.7	45	140	0			S
Methoxychlor	36.18	0.95	18	71.89	0	50.3	55	145	0			S
Endrin ketone	6.508	0.13	3.6	14.38	0	45.3	65	135	0			S
Endrin aldehyde	2.071	0.25	3.6	14.38	0	14.4	35	145	0			JS
gamma-Chlordane	3.905	0.23	1.8	7.189	1.166	38.1	65	125	0			S
Surrogate: Decachlorobiphenyl	16.99		3.6	43.13	0	39.4	55	130	0			S

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005B**
Client ID: **NOB-109-0002** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/06/15 2:53** SeqNo: **2313448**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-Chlordane	5.800	0.094	1.8	7.189	2.270	49.1	65	120	0			S
Surrogate: Tetrachloro-m-xylene	11.17		1.8	21.57	0	51.8	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005A**
Client ID: **NOB-119-0002** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/06/15 0:21** SeqNo: **2313324**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	3.683	0.060	1.8	7.091	0	51.9	60	125	4.032	9.04	30	S
beta-BHC	4.657	0.067	1.8	7.091	0	65.7	60	125	5.278	12.5	30	
delta-BHC	4.218	0.13	1.8	7.091	0	59.5	55	130	4.670	10.2	30	
gamma-BHC (Lindane)	3.729	0.059	1.8	7.091	0	52.6	60	125	4.204	12	30	S
Heptachlor	4.701	0.077	1.8	7.091	0	66.3	50	140	4.708	0.157	30	
Aldrin	3.734	0.12	1.8	7.091	0	52.7	45	140	4.261	13.2	30	
Heptachlor epoxide	4.363	0.17	1.8	7.091	0	61.5	65	130	5.578	24.4	30	S
Endosulfan I	3.309	0.064	1.8	7.091	0	46.7	15	135	4.468	29.8	30	
Dieldrin	7.999	0.17	3.5	14.18	0	56.4	65	125	9.873	21	30	S
4,4´-DDE	7.183	0.27	3.5	14.18	0	50.7	70	125	10.11	33.8	30	SR
Endrin	8.431	0.15	3.5	14.18	0	59.4	60	135	10.31	20	30	S
Endosulfan II	7.271	0.16	3.5	14.18	0	51.3	35	140	9.526	26.8	30	
4,4´-DDD	7.332	0.23	3.5	14.18	0	51.7	30	135	9.955	30.3	30	R
Endosulfan sulfate	7.222	0.14	3.5	14.18	0	50.9	60	135	9.755	29.8	30	S
4,4´-DDT	8.115	0.35	3.5	14.18	0	57.2	45	140	11.30	32.8	30	R
Methoxychlor	41.24	0.94	18	70.91	0	58.2	55	145	58.16	34.1	30	R
Endrin ketone	7.346	0.13	3.5	14.18	0	51.8	65	135	10.32	33.7	30	SR
Endrin aldehyde	ND	0.24	3.5	14.18	0	0	35	145	5.544	0	30	S
alpha-Chlordane	4.436	0.093	1.8	7.091	0	62.6	65	120	7.037	45.3	30	SR
gamma-Chlordane	3.810	0.22	1.8	7.091	0	53.7	65	125	4.741	21.8	30	S
Surrogate: Decachlorobiphenyl	20.50		3.5	42.55	0	48.2	55	130	0			S

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005B**
Client ID: **NOB-119-0002** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/06/15 0:21** SeqNo: **2313432**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	11.84		1.8	21.27	0	55.7	14	113	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8081_S

SW846 8081B -- Organochlorine Pesticides by GC-ECD

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005A**
Client ID: **NOB-109-0002** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/06/15 3:08** SeqNo: **2313334**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
alpha-BHC	4.006	0.060	1.8	7.189	0	55.7	60	125	3.484	14	30	S
beta-BHC	3.424	0.068	1.8	7.189	0	47.6	60	125	4.344	23.7	30	S
delta-BHC	4.422	0.13	1.8	7.189	0	61.5	55	130	3.918	12.1	30	
gamma-BHC (Lindane)	3.986	0.059	1.8	7.189	0	55.4	60	125	3.485	13.4	30	S
Heptachlor	4.537	0.078	1.8	7.189	0	63.1	50	140	4.219	7.27	30	
Aldrin	3.840	0.12	1.8	7.189	0	53.4	45	140	3.610	6.18	30	
Heptachlor epoxide	4.220	0.17	1.8	7.189	0	58.7	65	130	3.667	14	30	S
Endosulfan I	4.116	0.065	1.8	7.189	0	57.2	15	135	3.575	14.1	30	
Dieldrin	8.332	0.17	3.6	14.38	0	58.0	65	125	6.944	18.2	30	S
4,4´-DDE	12.37	0.27	3.6	14.38	7.008	37.3	70	125	10.74	14.1	30	S
Endrin	8.996	0.15	3.6	14.38	0	62.6	60	135	7.574	17.2	30	
Endosulfan II	7.984	0.16	3.6	14.38	0	55.5	35	140	6.926	14.2	30	
4,4´-DDD	8.025	0.24	3.6	14.38	2.354	39.4	30	135	6.686	18.2	30	
Endosulfan sulfate	7.996	0.14	3.6	14.38	0	55.6	60	135	6.705	17.6	30	S
4,4´-DDT	11.05	0.36	3.6	14.38	4.614	44.8	45	140	9.465	15.5	30	S
Methoxychlor	44.31	0.95	18	71.89	0	61.6	55	145	36.18	20.2	30	
Endrin ketone	8.006	0.13	3.6	14.38	0	55.7	65	135	6.508	20.6	30	S
gamma-Chlordane	4.544	0.23	1.8	7.189	1.166	47.0	65	125	3.905	15.1	30	S
Surrogate: Tetrachloro-m-xylene	12.85		1.8	21.57	0	59.6	14	113	0			
Surrogate: Decachlorobiphenyl	23.36		3.6	43.13	0	54.2	55	130	0			S

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **SW8081_S** Prep Date: **10/02/15 11:32** Run ID: **E6_151005B**
Client ID: **NOB-109-0002** Batch ID: **83195** Units: **ug/Kg** Analysis Date **10/06/15 3:08** SeqNo: **2313449**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Endrin aldehyde	2.097	0.25	3.6	14.38	0	14.6	35	145	2.347	11.3	30	JS
alpha-Chlordane	6.097	0.094	1.8	7.189	2.270	53.2	65	120	5.800	4.98	30	S

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		36	ug/Kg	1	10/06/2015 18:07	83204
Aroclor-1221	ND		36	ug/Kg	1	10/06/2015 18:07	83204
Aroclor-1232	ND		36	ug/Kg	1	10/06/2015 18:07	83204
Aroclor-1242	ND		36	ug/Kg	1	10/06/2015 18:07	83204
Aroclor-1248	ND		36	ug/Kg	1	10/06/2015 18:07	83204
Aroclor-1254	ND		36	ug/Kg	1	10/06/2015 18:07	83204
Aroclor-1260	ND		36	ug/Kg	1	10/06/2015 18:07	83204
Surrogate: Tetrachloro-m-xylene	67.6		34-147	%REC	1	10/06/2015 18:07	83204
Surrogate: Decachlorobiphenyl	77.0		60-125	%REC	1	10/06/2015 18:07	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		34	ug/Kg	1	10/06/2015 18:21	83204
Aroclor-1221	ND		34	ug/Kg	1	10/06/2015 18:21	83204
Aroclor-1232	ND		34	ug/Kg	1	10/06/2015 18:21	83204
Aroclor-1242	ND		34	ug/Kg	1	10/06/2015 18:21	83204
Aroclor-1248	ND		34	ug/Kg	1	10/06/2015 18:21	83204
Aroclor-1254	ND		34	ug/Kg	1	10/06/2015 18:21	83204
Aroclor-1260	ND		34	ug/Kg	1	10/06/2015 18:21	83204
Surrogate: Tetrachloro-m-xylene	67.3		34-147	%REC	1	10/06/2015 18:21	83204
Surrogate: Decachlorobiphenyl	74.0		60-125	%REC	1	10/06/2015 18:21	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		36	ug/Kg	1	10/06/2015 18:35	83204
Aroclor-1221	ND		36	ug/Kg	1	10/06/2015 18:35	83204
Aroclor-1232	ND		36	ug/Kg	1	10/06/2015 18:35	83204
Aroclor-1242	ND		36	ug/Kg	1	10/06/2015 18:35	83204
Aroclor-1248	ND		36	ug/Kg	1	10/06/2015 18:35	83204
Aroclor-1254	ND		36	ug/Kg	1	10/06/2015 18:35	83204
Aroclor-1260	ND		36	ug/Kg	1	10/06/2015 18:35	83204
Surrogate: Tetrachloro-m-xylene	67.5		34-147	%REC	1	10/06/2015 18:35	83204
Surrogate: Decachlorobiphenyl	73.6		60-125	%REC	1	10/06/2015 18:35	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		34	ug/Kg	1	10/06/2015 18:50	83204
Aroclor-1221	ND		34	ug/Kg	1	10/06/2015 18:50	83204
Aroclor-1232	ND		34	ug/Kg	1	10/06/2015 18:50	83204
Aroclor-1242	ND		34	ug/Kg	1	10/06/2015 18:50	83204
Aroclor-1248	ND		34	ug/Kg	1	10/06/2015 18:50	83204
Aroclor-1254	ND		34	ug/Kg	1	10/06/2015 18:50	83204
Aroclor-1260	ND		34	ug/Kg	1	10/06/2015 18:50	83204
Surrogate: Tetrachloro-m-xylene	74.2		34-147	%REC	1	10/06/2015 18:50	83204
Surrogate: Decachlorobiphenyl	86.9		60-125	%REC	1	10/06/2015 18:50	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 19:04	83204
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 19:04	83204
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 19:04	83204
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 19:04	83204
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 19:04	83204
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 19:04	83204
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 19:04	83204
Surrogate: Tetrachloro-m-xylene	69.3		34-147	%REC	1	10/06/2015 19:04	83204
Surrogate: Decachlorobiphenyl	75.2		60-125	%REC	1	10/06/2015 19:04	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 19:18	83204
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 19:18	83204
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 19:18	83204
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 19:18	83204
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 19:18	83204
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 19:18	83204
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 19:18	83204
Surrogate: Tetrachloro-m-xylene	66.5		34-147	%REC	1	10/06/2015 19:18	83204
Surrogate: Decachlorobiphenyl	73.8		60-125	%REC	1	10/06/2015 19:18	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/06/2015 19:33	83204
Aroclor-1221	ND		35	ug/Kg	1	10/06/2015 19:33	83204
Aroclor-1232	ND		35	ug/Kg	1	10/06/2015 19:33	83204
Aroclor-1242	ND		35	ug/Kg	1	10/06/2015 19:33	83204
Aroclor-1248	ND		35	ug/Kg	1	10/06/2015 19:33	83204
Aroclor-1254	ND		35	ug/Kg	1	10/06/2015 19:33	83204
Aroclor-1260	ND		35	ug/Kg	1	10/06/2015 19:33	83204
Surrogate: Tetrachloro-m-xylene	76.9		34-147	%REC	1	10/06/2015 19:33	83204
Surrogate: Decachlorobiphenyl	84.1		60-125	%REC	1	10/06/2015 19:33	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/06/2015 20:16	83204
Aroclor-1221	ND		35	ug/Kg	1	10/06/2015 20:16	83204
Aroclor-1232	ND		35	ug/Kg	1	10/06/2015 20:16	83204
Aroclor-1242	ND		35	ug/Kg	1	10/06/2015 20:16	83204
Aroclor-1248	ND		35	ug/Kg	1	10/06/2015 20:16	83204
Aroclor-1254	ND		35	ug/Kg	1	10/06/2015 20:16	83204
Aroclor-1260	ND		35	ug/Kg	1	10/06/2015 20:16	83204
Surrogate: Tetrachloro-m-xylene	68.1		34-147	%REC	1	10/06/2015 20:16	83204
Surrogate: Decachlorobiphenyl	74.0		60-125	%REC	1	10/06/2015 20:16	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 20:30	83204
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 20:30	83204
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 20:30	83204
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 20:30	83204
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 20:30	83204
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 20:30	83204
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 20:30	83204
Surrogate: Tetrachloro-m-xylene	77.9		34-147	%REC	1	10/06/2015 20:30	83204
Surrogate: Decachlorobiphenyl	84.4		60-125	%REC	1	10/06/2015 20:30	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		42	ug/Kg	1	10/06/2015 20:45	83204
Aroclor-1221	ND		42	ug/Kg	1	10/06/2015 20:45	83204
Aroclor-1232	ND		42	ug/Kg	1	10/06/2015 20:45	83204
Aroclor-1242	ND		42	ug/Kg	1	10/06/2015 20:45	83204
Aroclor-1248	ND		42	ug/Kg	1	10/06/2015 20:45	83204
Aroclor-1254	ND		42	ug/Kg	1	10/06/2015 20:45	83204
Aroclor-1260	ND		42	ug/Kg	1	10/06/2015 20:45	83204
Surrogate: Tetrachloro-m-xylene	73.3		34-147	%REC	1	10/06/2015 20:45	83204
Surrogate: Decachlorobiphenyl	78.9		60-125	%REC	1	10/06/2015 20:45	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02
Lab ID: P1467-11
Project: Barrington, RI site
Collection Date: 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		38	ug/Kg	1	10/06/2015 20:59	83204
Aroclor-1221	ND		38	ug/Kg	1	10/06/2015 20:59	83204
Aroclor-1232	ND		38	ug/Kg	1	10/06/2015 20:59	83204
Aroclor-1242	ND		38	ug/Kg	1	10/06/2015 20:59	83204
Aroclor-1248	ND		38	ug/Kg	1	10/06/2015 20:59	83204
Aroclor-1254	ND		38	ug/Kg	1	10/06/2015 20:59	83204
Aroclor-1260	ND		38	ug/Kg	1	10/06/2015 20:59	83204
Surrogate: Tetrachloro-m-xylene	71.6		34-147	%REC	1	10/06/2015 20:59	83204
Surrogate: Decachlorobiphenyl	77.8		60-125	%REC	1	10/06/2015 20:59	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002 **Project:** Barrington, RI site
Lab ID: P1467-12 **Collection Date:** 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		41	ug/Kg	1	10/06/2015 21:13	83204
Aroclor-1221	ND		41	ug/Kg	1	10/06/2015 21:13	83204
Aroclor-1232	ND		41	ug/Kg	1	10/06/2015 21:13	83204
Aroclor-1242	ND		41	ug/Kg	1	10/06/2015 21:13	83204
Aroclor-1248	ND		41	ug/Kg	1	10/06/2015 21:13	83204
Aroclor-1254	ND		41	ug/Kg	1	10/06/2015 21:13	83204
Aroclor-1260	ND		41	ug/Kg	1	10/06/2015 21:13	83204
Surrogate: Tetrachloro-m-xylene	62.2		34-147	%REC	1	10/06/2015 21:13	83204
Surrogate: Decachlorobiphenyl	68.5		60-125	%REC	1	10/06/2015 21:13	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507 **Project:** Barrington, RI site
Lab ID: P1467-13 **Collection Date:** 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 21:28	83204
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 21:28	83204
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 21:28	83204
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 21:28	83204
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 21:28	83204
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 21:28	83204
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 21:28	83204
Surrogate: Tetrachloro-m-xylene	58.2		34-147	%REC	1	10/06/2015 21:28	83204
Surrogate: Decachlorobiphenyl	64.4		60-125	%REC	1	10/06/2015 21:28	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002
Lab ID: P1467-14
Project: Barrington, RI site
Collection Date: 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		40	ug/Kg	1	10/06/2015 21:42	83204
Aroclor-1221	ND		40	ug/Kg	1	10/06/2015 21:42	83204
Aroclor-1232	ND		40	ug/Kg	1	10/06/2015 21:42	83204
Aroclor-1242	ND		40	ug/Kg	1	10/06/2015 21:42	83204
Aroclor-1248	ND		40	ug/Kg	1	10/06/2015 21:42	83204
Aroclor-1254	ND		40	ug/Kg	1	10/06/2015 21:42	83204
Aroclor-1260	ND		40	ug/Kg	1	10/06/2015 21:42	83204
Surrogate: Tetrachloro-m-xylene	69.7		34-147	%REC	1	10/06/2015 21:42	83204
Surrogate: Decachlorobiphenyl	76.1		60-125	%REC	1	10/06/2015 21:42	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012 **Project:** Barrington, RI site
Lab ID: P1467-15 **Collection Date:** 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		39	ug/Kg	1	10/06/2015 21:56	83204
Aroclor-1221	ND		39	ug/Kg	1	10/06/2015 21:56	83204
Aroclor-1232	ND		39	ug/Kg	1	10/06/2015 21:56	83204
Aroclor-1242	ND		39	ug/Kg	1	10/06/2015 21:56	83204
Aroclor-1248	ND		39	ug/Kg	1	10/06/2015 21:56	83204
Aroclor-1254	ND		39	ug/Kg	1	10/06/2015 21:56	83204
Aroclor-1260	ND		39	ug/Kg	1	10/06/2015 21:56	83204
Surrogate: Tetrachloro-m-xylene	51.7		34-147	%REC	1	10/06/2015 21:56	83204
Surrogate: Decachlorobiphenyl	57.5	S	60-125	%REC	1	10/06/2015 21:56	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/06/2015 22:11	83204
Aroclor-1221	ND		35	ug/Kg	1	10/06/2015 22:11	83204
Aroclor-1232	ND		35	ug/Kg	1	10/06/2015 22:11	83204
Aroclor-1242	ND		35	ug/Kg	1	10/06/2015 22:11	83204
Aroclor-1248	ND		35	ug/Kg	1	10/06/2015 22:11	83204
Aroclor-1254	ND		35	ug/Kg	1	10/06/2015 22:11	83204
Aroclor-1260	ND		35	ug/Kg	1	10/06/2015 22:11	83204
Surrogate: Tetrachloro-m-xylene	72.0		34-147	%REC	1	10/06/2015 22:11	83204
Surrogate: Decachlorobiphenyl	79.1		60-125	%REC	1	10/06/2015 22:11	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/06/2015 22:54	83204
Aroclor-1221	ND		37	ug/Kg	1	10/06/2015 22:54	83204
Aroclor-1232	ND		37	ug/Kg	1	10/06/2015 22:54	83204
Aroclor-1242	ND		37	ug/Kg	1	10/06/2015 22:54	83204
Aroclor-1248	ND		37	ug/Kg	1	10/06/2015 22:54	83204
Aroclor-1254	ND		37	ug/Kg	1	10/06/2015 22:54	83204
Aroclor-1260	ND		37	ug/Kg	1	10/06/2015 22:54	83204
Surrogate: Tetrachloro-m-xylene	73.4		34-147	%REC	1	10/06/2015 22:54	83204
Surrogate: Decachlorobiphenyl	81.9		60-125	%REC	1	10/06/2015 22:54	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		38	ug/Kg	1	10/06/2015 23:08	83204
Aroclor-1221	ND		38	ug/Kg	1	10/06/2015 23:08	83204
Aroclor-1232	ND		38	ug/Kg	1	10/06/2015 23:08	83204
Aroclor-1242	ND		38	ug/Kg	1	10/06/2015 23:08	83204
Aroclor-1248	ND		38	ug/Kg	1	10/06/2015 23:08	83204
Aroclor-1254	ND		38	ug/Kg	1	10/06/2015 23:08	83204
Aroclor-1260	ND		38	ug/Kg	1	10/06/2015 23:08	83204
Surrogate: Tetrachloro-m-xylene	78.7		34-147	%REC	1	10/06/2015 23:08	83204
Surrogate: Decachlorobiphenyl	85.7		60-125	%REC	1	10/06/2015 23:08	83204

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507
Lab ID: P1467-19
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		35	ug/Kg	1	10/07/2015 0:05	83205
Aroclor-1221	ND		35	ug/Kg	1	10/07/2015 0:05	83205
Aroclor-1232	ND		35	ug/Kg	1	10/07/2015 0:05	83205
Aroclor-1242	ND		35	ug/Kg	1	10/07/2015 0:05	83205
Aroclor-1248	ND		35	ug/Kg	1	10/07/2015 0:05	83205
Aroclor-1254	ND		35	ug/Kg	1	10/07/2015 0:05	83205
Aroclor-1260	ND		35	ug/Kg	1	10/07/2015 0:05	83205
Surrogate: Tetrachloro-m-xylene	76.5		34-147	%REC	1	10/07/2015 0:05	83205
Surrogate: Decachlorobiphenyl	83.7		60-125	%REC	1	10/07/2015 0:05	83205

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		34	ug/Kg	1	10/07/2015 0:20	83205
Aroclor-1221	ND		34	ug/Kg	1	10/07/2015 0:20	83205
Aroclor-1232	ND		34	ug/Kg	1	10/07/2015 0:20	83205
Aroclor-1242	ND		34	ug/Kg	1	10/07/2015 0:20	83205
Aroclor-1248	ND		34	ug/Kg	1	10/07/2015 0:20	83205
Aroclor-1254	ND		34	ug/Kg	1	10/07/2015 0:20	83205
Aroclor-1260	ND		34	ug/Kg	1	10/07/2015 0:20	83205
Surrogate: Tetrachloro-m-xylene	76.4		34-147	%REC	1	10/07/2015 0:20	83205
Surrogate: Decachlorobiphenyl	82.7		60-125	%REC	1	10/07/2015 0:20	83205

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01
Lab ID: P1467-21
Project: Barrington, RI site
Collection Date: 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		34	ug/Kg	1	10/07/2015 0:34	83205
Aroclor-1221	ND		34	ug/Kg	1	10/07/2015 0:34	83205
Aroclor-1232	ND		34	ug/Kg	1	10/07/2015 0:34	83205
Aroclor-1242	ND		34	ug/Kg	1	10/07/2015 0:34	83205
Aroclor-1248	ND		34	ug/Kg	1	10/07/2015 0:34	83205
Aroclor-1254	ND		34	ug/Kg	1	10/07/2015 0:34	83205
Aroclor-1260	ND		34	ug/Kg	1	10/07/2015 0:34	83205
Surrogate: Tetrachloro-m-xylene	79.7		34-147	%REC	1	10/07/2015 0:34	83205
Surrogate: Decachlorobiphenyl	87.8		60-125	%REC	1	10/07/2015 0:34	83205

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/12/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709
Lab ID: P1467-22
Project: Barrington, RI site
Collection Date: 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8082A -- PCB by GC-ECD							**SW8082_S**
Aroclor-1016	ND		37	ug/Kg	1	10/07/2015 0:49	83205
Aroclor-1221	ND		37	ug/Kg	1	10/07/2015 0:49	83205
Aroclor-1232	ND		37	ug/Kg	1	10/07/2015 0:49	83205
Aroclor-1242	ND		37	ug/Kg	1	10/07/2015 0:49	83205
Aroclor-1248	ND		37	ug/Kg	1	10/07/2015 0:49	83205
Aroclor-1254	ND		37	ug/Kg	1	10/07/2015 0:49	83205
Aroclor-1260	ND		37	ug/Kg	1	10/07/2015 0:49	83205
Surrogate: Tetrachloro-m-xylene	83.3		34-147	%REC	1	10/07/2015 0:49	83205
Surrogate: Decachlorobiphenyl	89.4		60-125	%REC	1	10/07/2015 0:49	83205

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_S

SW846 8082A -- PCB by GC-ECD

Sample ID: **MB-83204** SampType: **MBLK** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007A**
Client ID: **MB-83204** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 17:38** SeqNo: **2313911**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	2.5	33									
Aroclor-1221	ND	4.4	33									
Aroclor-1232	ND	2.4	33									
Aroclor-1242	ND	2.5	33									
Aroclor-1248	ND	3.8	33									
Aroclor-1254	ND	4.4	33									
Aroclor-1260	ND	1.8	33									

Sample ID: **MB-83204** SampType: **MBLK** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007B**
Client ID: **MB-83204** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 17:38** SeqNo: **2313995**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	16.85		1.7	20.00	0	84.3	34	147	0			
Surrogate: Decachlorobiphenyl	36.84		3.3	40.00	0	92.1	60	125	0			

Sample ID: **MB-83205** SampType: **MBLK** TestCode: **SW8082_S** Prep Date: **10/03/15 12:52** Run ID: **E2_151007A**
Client ID: **MB-83205** Batch ID: **83205** Units: **ug/Kg** Analysis Date **10/06/15 23:22** SeqNo: **2313935**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	ND	2.5	33									
Aroclor-1221	ND	4.4	33									
Aroclor-1232	ND	2.4	33									
Aroclor-1242	ND	2.5	33									
Aroclor-1248	ND	3.8	33									
Aroclor-1254	ND	4.4	33									
Aroclor-1260	ND	1.8	33									
Surrogate: Tetrachloro-m-xylene	17.27		1.7	20.00	0	86.4	34	147	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_S
SW846 8082A -- PCB by GC-ECD

Sample ID: **MB-83205** SampType: **MBLK** TestCode: **SW8082_S** Prep Date: **10/03/15 12:52** Run ID: **E2_151007B**
Client ID: **MB-83205** Batch ID: **83205** Units: **ug/Kg** Analysis Date **10/06/15 23:22** SeqNo: **2314019**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Decachlorobiphenyl	37.66		3.3	40.00	0	94.2	60	125	0			

Sample ID: **LCS-83204** SampType: **LCS** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007B**
Client ID: **LCS-83204** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 17:52** SeqNo: **2313996**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	109.7	2.5	33	133.3	0	82.3	40	140	0			
Aroclor-1260	116.1	1.8	33	133.3	0	87.1	60	130	0			
Surrogate: Tetrachloro-m-xylene	17.63		1.7	20.00	0	88.2	34	147	0			
Surrogate: Decachlorobiphenyl	37.99		3.3	40.00	0	95.0	60	125	0			

Sample ID: **LCS-83205** SampType: **LCS** TestCode: **SW8082_S** Prep Date: **10/03/15 12:52** Run ID: **E2_151007A**
Client ID: **LCS-83205** Batch ID: **83205** Units: **ug/Kg** Analysis Date **10/06/15 23:37** SeqNo: **2313936**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	17.71		1.7	20.00	0	88.6	34	147	0			

Sample ID: **LCS-83205** SampType: **LCS** TestCode: **SW8082_S** Prep Date: **10/03/15 12:52** Run ID: **E2_151007B**
Client ID: **LCS-83205** Batch ID: **83205** Units: **ug/Kg** Analysis Date **10/06/15 23:37** SeqNo: **2314020**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	121.6	2.5	33	133.3	0	91.2	40	140	0			
Aroclor-1260	124.4	1.8	33	133.3	0	93.3	60	130	0			
Surrogate: Decachlorobiphenyl	37.80		3.3	40.00	0	94.5	60	125	0			

Sample ID: **LCSD-83205** SampType: **LCSD** TestCode: **SW8082_S** Prep Date: **10/03/15 12:52** Run ID: **E2_151007A**
Client ID: **LCSD-83205** Batch ID: **83205** Units: **ug/Kg** Analysis Date **10/06/15 23:51** SeqNo: **2313937**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	18.06		1.7	20.00	0	90.3	34	147	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_S

SW846 8082A -- PCB by GC-ECD

Sample ID: **LCSD-83205** SampType: **LCSD** TestCode: **SW8082_S** Prep Date: **10/03/15 12:52** Run ID: **E2_151007B**
Client ID: **LCSD-83205** Batch ID: **83205** Units: **ug/Kg** Analysis Date **10/06/15 23:51** SeqNo: **2314021**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	117.3	2.5	33	133.3	0	88.0	40	140	121.6	3.58	30	
Aroclor-1260	121.0	1.8	33	133.3	0	90.7	60	130	124.4	2.82	30	
Surrogate: Decachlorobiphenyl	38.21		3.3	40.00	0	95.5	60	125	0			

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007A**
Client ID: **NOB-119-0002** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 19:47** SeqNo: **2313920**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	16.39		1.8	21.27	0	77.1	34	147	0			

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007B**
Client ID: **NOB-119-0002** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 19:47** SeqNo: **2314004**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	115.0	2.7	35	141.8	0	81.1	40	140	0			
Aroclor-1260	116.4	1.9	35	141.8	0	82.1	60	130	0			
Surrogate: Decachlorobiphenyl	35.19		3.5	42.55	0	82.7	60	125	0			

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007A**
Client ID: **NOB-109-0002** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 22:25** SeqNo: **2313931**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1260	108.2	2.0	36	145.2	0	74.5	60	130	0			
Surrogate: Tetrachloro-m-xylene	15.04		1.9	21.78	0	69.1	34	147	0			

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007B**
Client ID: **NOB-109-0002** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 22:25** SeqNo: **2314015**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	104.6	2.7	36	145.2	0	72.0	40	140	0			
Surrogate: Decachlorobiphenyl	33.11		3.6	43.56	0	76.0	60	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW8082_S
SW846 8082A -- PCB by GC-ECD

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007A**
Client ID: **NOB-119-0002** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 20:01** SeqNo: **2313921**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surrogate: Tetrachloro-m-xylene	15.45		1.8	21.13	0	73.1	34	147	0			

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007B**
Client ID: **NOB-119-0002** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 20:01** SeqNo: **2314005**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	107.1	2.6	35	140.9	0	76.0	40	140	115.0	7.05	30	
Aroclor-1260	109.3	1.9	35	140.9	0	77.6	60	130	116.4	6.32	30	
Surrogate: Decachlorobiphenyl	33.63		3.5	42.26	0	79.6	60	125	0			

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007A**
Client ID: **NOB-109-0002** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 22:40** SeqNo: **2313932**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1260	107.3	2.0	36	145.7	0	73.6	60	130	108.2	0.865	30	
Surrogate: Tetrachloro-m-xylene	15.84		1.9	21.85	0	72.5	34	147	0			

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **SW8082_S** Prep Date: **10/03/15 12:49** Run ID: **E2_151007B**
Client ID: **NOB-109-0002** Batch ID: **83204** Units: **ug/Kg** Analysis Date **10/06/15 22:40** SeqNo: **2314016**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor-1016	110.5	2.7	36	145.7	0	75.9	40	140	104.6	5.53	30	
Surrogate: Decachlorobiphenyl	34.04		3.6	43.71	0	77.9	60	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.5	mg/Kg	1	10/07/2015 11:43	83208
Surrogate: ortho-Terphenyl	67.4		50-150	%REC	1	10/07/2015 11:43	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.2	mg/Kg	1	10/07/2015 12:04	83208
Surrogate: ortho-Terphenyl	71.7		50-150	%REC	1	10/07/2015 12:04	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	9.4		7.7	mg/Kg	1	10/07/2015 12:26	83208
Surrogate: ortho-Terphenyl	50.5		50-150	%REC	1	10/07/2015 12:26	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	7.5		7.2	mg/Kg	1	10/07/2015 12:47	83208
Surrogate: ortho-Terphenyl	57.0		50-150	%REC	1	10/07/2015 12:47	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.8	mg/Kg	1	10/07/2015 13:09	83208
Surrogate: ortho-Terphenyl	61.8		50-150	%REC	1	10/07/2015 13:09	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.8	mg/Kg	1	10/07/2015 13:30	83208
Surrogate: ortho-Terphenyl	80.1		50-150	%REC	1	10/07/2015 13:30	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.4	mg/Kg	1	10/07/2015 13:52	83208
Surrogate: ortho-Terphenyl	70.8		50-150	%REC	1	10/07/2015 13:52	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.2	mg/Kg	1	10/07/2015 14:55	83208
Surrogate: ortho-Terphenyl	65.0		50-150	%REC	1	10/07/2015 14:55	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		8.0	mg/Kg	1	10/07/2015 16:40	83208
Surrogate: ortho-Terphenyl	64.4		50-150	%REC	1	10/07/2015 16:40	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		8.9	mg/Kg	1	10/07/2015 15:37	83208
Surrogate: ortho-Terphenyl	84.7		50-150	%REC	1	10/07/2015 15:37	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02
Lab ID: P1467-11
Project: Barrington, RI site
Collection Date: 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	9.0		7.9	mg/Kg	1	10/07/2015 15:58	83208
Surrogate: ortho-Terphenyl	74.8		50-150	%REC	1	10/07/2015 15:58	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002
Lab ID: P1467-12
Project: Barrington, RI site
Collection Date: 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	9.5		8.8	mg/Kg	1	10/07/2015 16:19	83208
Surrogate: ortho-Terphenyl	73.9		50-150	%REC	1	10/07/2015 16:19	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507
Lab ID: P1467-13
Project: Barrington, RI site
Collection Date: 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.9	mg/Kg	1	10/07/2015 17:43	83208
Surrogate: ortho-Terphenyl	79.4		50-150	%REC	1	10/07/2015 17:43	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002 **Project:** Barrington, RI site
Lab ID: P1467-14 **Collection Date:** 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	10		8.5	mg/Kg	1	10/07/2015 18:04	83208
Surrogate: ortho-Terphenyl	74.6		50-150	%REC	1	10/07/2015 18:04	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012 **Project:** Barrington, RI site
Lab ID: P1467-15 **Collection Date:** 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		8.2	mg/Kg	1	10/07/2015 18:25	83208
Surrogate: ortho-Terphenyl	71.6		50-150	%REC	1	10/07/2015 18:25	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	9.0		7.5	mg/Kg	1	10/07/2015 18:46	83208
Surrogate: ortho-Terphenyl	88.8		50-150	%REC	1	10/07/2015 18:46	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.7	mg/Kg	1	10/07/2015 19:50	83208
Surrogate: ortho-Terphenyl	72.0		50-150	%REC	1	10/07/2015 19:50	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	9.3		8.1	mg/Kg	1	10/07/2015 20:11	83208
Surrogate: ortho-Terphenyl	70.5		50-150	%REC	1	10/07/2015 20:11	83208

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507 **Project:** Barrington, RI site
Lab ID: P1467-19 **Collection Date:** 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.4	mg/Kg	1	10/07/2015 21:36	83209
Surrogate: ortho-Terphenyl	58.7		50-150	%REC	1	10/07/2015 21:36	83209

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.3	mg/Kg	1	10/07/2015 21:57	83209
Surrogate: ortho-Terphenyl	66.1		50-150	%REC	1	10/07/2015 21:57	83209

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01
Lab ID: P1467-21
Project: Barrington, RI site
Collection Date: 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		7.2	mg/Kg	1	10/07/2015 22:18	83209
Surrogate: ortho-Terphenyl	87.5		50-150	%REC	1	10/07/2015 22:18	83209

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709 **Project:** Barrington, RI site
Lab ID: P1467-22 **Collection Date:** 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID							**TPH_S**
Extractable Total Petroleum Hydrocarbon	ND		8.0	mg/Kg	1	10/07/2015 22:39	83209
Surrogate: ortho-Terphenyl	75.0		50-150	%REC	1	10/07/2015 22:39	83209

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

TPH_S

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID: **MB-83208** SampType: **MBLK** TestCode: **TPH_S** Prep Date: **10/05/15 8:10** Run ID: **F1_151007A**
Client ID: **MB-83208** Batch ID: **83208** Units: **mg/Kg** Analysis Date: **10/07/15 11:00** SeqNo: **2314369**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	ND	1.3	7.0									
Surrogate: ortho-Terphenyl	3.490		0.83	3.333	0	105	50	150	0			

Sample ID: **MB-83209** SampType: **MBLK** TestCode: **TPH_S** Prep Date: **10/05/15 8:17** Run ID: **F1_151007A**
Client ID: **MB-83209** Batch ID: **83209** Units: **mg/Kg** Analysis Date: **10/07/15 20:32** SeqNo: **2314395**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	ND	1.3	7.0									
Surrogate: ortho-Terphenyl	3.173		0.83	3.333	0	95.2	50	150	0			

Sample ID: **LCS-83208** SampType: **LCS** TestCode: **TPH_S** Prep Date: **10/05/15 8:10** Run ID: **F1_151007A**
Client ID: **LCS-83208** Batch ID: **83208** Units: **mg/Kg** Analysis Date: **10/07/15 11:21** SeqNo: **2314370**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	132.8	1.3	7.0	166.7	0	79.7	60	140	0			
Surrogate: ortho-Terphenyl	3.936		0.83	3.333	0	118	50	150	0			

Sample ID: **LCS-83209** SampType: **LCS** TestCode: **TPH_S** Prep Date: **10/05/15 8:17** Run ID: **F1_151007A**
Client ID: **LCS-83209** Batch ID: **83209** Units: **mg/Kg** Analysis Date: **10/07/15 20:53** SeqNo: **2314396**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	140.3	1.3	7.0	166.7	0	84.2	60	140	0			
Surrogate: ortho-Terphenyl	4.361		0.83	3.333	0	131	50	150	0			

Sample ID: **LCSD-83209** SampType: **LCSD** TestCode: **TPH_S** Prep Date: **10/05/15 8:17** Run ID: **F1_151007A**
Client ID: **LCSD-83209** Batch ID: **83209** Units: **mg/Kg** Analysis Date: **10/07/15 21:15** SeqNo: **2314397**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	151.6	1.3	7.0	166.7	0	90.9	60	140	140.3	7.75	20	
Surrogate: ortho-Terphenyl	4.442		0.83	3.333	0	133	50	150	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

TPH_S

SW846 8015D TPH -- Total Petroleum Hydrocarbons (TPH) by GC-FID

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **TPH_S** Prep Date: **10/05/15 8:10** Run ID: **F1_151007A**
Client ID: **NOB-119-0002** Batch ID: **83208** Units: **mg/Kg** Analysis Date: **10/07/15 14:13** SeqNo: **2314378**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	172.6	1.4	7.4	176.7	5.189	94.8	50	150	0			
Surrogate: ortho-Terphenyl	3.502		0.88	3.534	0	99.1	50	150	0			

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **TPH_S** Prep Date: **10/05/15 8:10** Run ID: **F1_151007A**
Client ID: **NOB-109-0002** Batch ID: **83208** Units: **mg/Kg** Analysis Date: **10/07/15 19:07** SeqNo: **2314391**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	106.5	1.4	7.5	179.7	8.964	54.3	50	150	0			
Surrogate: ortho-Terphenyl	3.015		0.89	3.594	0	83.9	50	150	0			

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **TPH_S** Prep Date: **10/05/15 8:10** Run ID: **F1_151007A**
Client ID: **NOB-119-0002** Batch ID: **83208** Units: **mg/Kg** Analysis Date: **10/07/15 14:34** SeqNo: **2314379**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	148.4	1.4	7.4	175.5	5.189	81.6	50	150	172.6	15.1	30	
Surrogate: ortho-Terphenyl	2.793		0.87	3.510	0	79.6	50	150	0			

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **TPH_S** Prep Date: **10/05/15 8:10** Run ID: **F1_151007A**
Client ID: **NOB-109-0002** Batch ID: **83208** Units: **mg/Kg** Analysis Date: **10/07/15 19:29** SeqNo: **2314817**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Extractable Total Petroleum Hydrocarbon	178.2	1.4	7.6	181.5	8.964	93.3	50	150	106.5	50.4	30	R
Surrogate: ortho-Terphenyl	3.007		0.90	3.630	0	82.8	50	150	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.90	mg/Kg	1	10/07/2015 9:07	83224
Arsenic	ND		0.90	mg/Kg	1	10/07/2015 9:07	83224
Barium	13		9.0	mg/Kg	1	10/07/2015 9:07	83224
Beryllium	0.16	J	0.22	mg/Kg	1	10/07/2015 9:07	83224
Cadmium	0.026	J	0.22	mg/Kg	1	10/07/2015 9:07	83224
Chromium	2.6	B	0.90	mg/Kg	1	10/07/2015 9:07	83224
Copper	6.4		1.3	mg/Kg	1	10/07/2015 9:07	83224
Lead	5.2		0.45	mg/Kg	1	10/07/2015 9:07	83224
Manganese	83		2.2	mg/Kg	1	10/09/2015 15:52	83224
Nickel	3.5	B	2.2	mg/Kg	1	10/07/2015 9:07	83224
Selenium	4.0		1.3	mg/Kg	1	10/07/2015 9:07	83224
Silver	0.56	J	1.3	mg/Kg	1	10/07/2015 9:07	83224
Thallium	0.25	J	0.90	mg/Kg	1	10/09/2015 15:52	83224
Vanadium	4.8		2.2	mg/Kg	1	10/07/2015 9:07	83224
Zinc	12		2.2	mg/Kg	1	10/07/2015 9:07	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0055	J	0.037	mg/Kg	1	10/07/2015 16:08	83233

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.89	mg/Kg	1	10/07/2015 9:10	83224
Arsenic	5.1		0.89	mg/Kg	1	10/07/2015 9:10	83224
Barium	25		8.9	mg/Kg	1	10/07/2015 9:10	83224
Beryllium	0.49		0.22	mg/Kg	1	10/07/2015 9:10	83224
Cadmium	ND		0.22	mg/Kg	1	10/07/2015 9:10	83224
Chromium	8.6	B	0.89	mg/Kg	1	10/07/2015 9:10	83224
Copper	15		1.3	mg/Kg	1	10/07/2015 9:10	83224
Lead	9.0		0.44	mg/Kg	1	10/07/2015 9:10	83224
Manganese	400		2.2	mg/Kg	1	10/09/2015 15:56	83224
Nickel	13	B	2.2	mg/Kg	1	10/07/2015 9:10	83224
Selenium	ND		1.3	mg/Kg	1	10/07/2015 9:10	83224
Silver	ND		1.3	mg/Kg	1	10/07/2015 9:10	83224
Thallium	ND		0.89	mg/Kg	1	10/09/2015 15:56	83224
Vanadium	11		2.2	mg/Kg	1	10/07/2015 9:10	83224
Zinc	33		2.2	mg/Kg	1	10/07/2015 9:10	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.040	mg/Kg	1	10/07/2015 16:10	83233

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		1.1	mg/Kg	1	10/07/2015 9:14	83224
Arsenic	9.5		1.1	mg/Kg	1	10/07/2015 9:14	83224
Barium	19		11	mg/Kg	1	10/07/2015 9:14	83224
Beryllium	0.45		0.27	mg/Kg	1	10/07/2015 9:14	83224
Cadmium	ND		0.27	mg/Kg	1	10/07/2015 9:14	83224
Chromium	8.3	B	1.1	mg/Kg	1	10/07/2015 9:14	83224
Copper	19		1.6	mg/Kg	1	10/07/2015 9:14	83224
Lead	24		0.53	mg/Kg	1	10/07/2015 9:14	83224
Manganese	160		2.7	mg/Kg	1	10/09/2015 16:00	83224
Nickel	8.1	B	2.7	mg/Kg	1	10/07/2015 9:14	83224
Selenium	ND		1.6	mg/Kg	1	10/07/2015 9:14	83224
Silver	ND		1.6	mg/Kg	1	10/07/2015 9:14	83224
Thallium	ND		1.1	mg/Kg	1	10/09/2015 16:00	83224
Vanadium	16		2.7	mg/Kg	1	10/07/2015 9:14	83224
Zinc	26		2.7	mg/Kg	1	10/07/2015 9:14	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.046		0.039	mg/Kg	1	10/07/2015 16:11	83233

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.77	mg/Kg	1	10/07/2015 9:18	83224
Arsenic	8.0		0.77	mg/Kg	1	10/07/2015 9:18	83224
Barium	15		7.7	mg/Kg	1	10/07/2015 9:18	83224
Beryllium	0.26		0.19	mg/Kg	1	10/07/2015 9:18	83224
Cadmium	ND		0.19	mg/Kg	1	10/07/2015 9:18	83224
Chromium	7.2	B	0.77	mg/Kg	1	10/07/2015 9:18	83224
Copper	23		1.1	mg/Kg	1	10/07/2015 9:18	83224
Lead	7.5		0.38	mg/Kg	1	10/07/2015 9:18	83224
Manganese	320		1.9	mg/Kg	1	10/09/2015 16:04	83224
Nickel	12	B	1.9	mg/Kg	1	10/07/2015 9:18	83224
Selenium	ND		1.1	mg/Kg	1	10/07/2015 9:18	83224
Silver	ND		1.1	mg/Kg	1	10/07/2015 9:18	83224
Thallium	ND		0.77	mg/Kg	1	10/09/2015 16:04	83224
Vanadium	8.3		1.9	mg/Kg	1	10/07/2015 9:18	83224
Zinc	29		1.9	mg/Kg	1	10/07/2015 9:18	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.039	mg/Kg	1	10/07/2015 16:13	83233

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.83	mg/Kg	1	10/07/2015 9:22	83224
Arsenic	6.3		0.83	mg/Kg	1	10/07/2015 9:22	83224
Barium	14		8.3	mg/Kg	1	10/07/2015 9:22	83224
Beryllium	0.42		0.21	mg/Kg	1	10/07/2015 9:22	83224
Cadmium	ND		0.21	mg/Kg	1	10/07/2015 9:22	83224
Chromium	7.7	B	0.83	mg/Kg	1	10/07/2015 9:22	83224
Copper	12		1.2	mg/Kg	1	10/07/2015 9:22	83224
Lead	8.4		0.41	mg/Kg	1	10/07/2015 9:22	83224
Manganese	250		2.1	mg/Kg	1	10/09/2015 16:07	83224
Nickel	11	B	2.1	mg/Kg	1	10/07/2015 9:22	83224
Selenium	ND		1.2	mg/Kg	1	10/07/2015 9:22	83224
Silver	ND		1.2	mg/Kg	1	10/07/2015 9:22	83224
Thallium	ND		0.83	mg/Kg	1	10/09/2015 16:07	83224
Vanadium	12		2.1	mg/Kg	1	10/07/2015 9:22	83224
Zinc	25		2.1	mg/Kg	1	10/07/2015 9:22	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.011	J	0.040	mg/Kg	1	10/07/2015 16:15	83233

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.88	mg/Kg	1	10/07/2015 9:25	83224
Arsenic	11		0.88	mg/Kg	1	10/07/2015 9:25	83224
Barium	31		8.8	mg/Kg	1	10/07/2015 9:25	83224
Beryllium	0.46		0.22	mg/Kg	1	10/07/2015 9:25	83224
Cadmium	ND		0.22	mg/Kg	1	10/07/2015 9:25	83224
Chromium	9.6	B	0.88	mg/Kg	1	10/07/2015 9:25	83224
Copper	17		1.3	mg/Kg	1	10/07/2015 9:25	83224
Lead	13		0.44	mg/Kg	1	10/07/2015 9:25	83224
Manganese	250		2.2	mg/Kg	1	10/09/2015 16:11	83224
Nickel	11	B	2.2	mg/Kg	1	10/07/2015 9:25	83224
Selenium	0.67	J	1.3	mg/Kg	1	10/07/2015 9:25	83224
Silver	ND		1.3	mg/Kg	1	10/07/2015 9:25	83224
Thallium	0.44	J	0.88	mg/Kg	1	10/09/2015 16:11	83224
Vanadium	11		2.2	mg/Kg	1	10/07/2015 9:25	83224
Zinc	33		2.2	mg/Kg	1	10/07/2015 9:25	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.041	mg/Kg	1	10/07/2015 16:16	83233

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.80	mg/Kg	1	10/07/2015 9:36	83224
Arsenic	5.4		0.80	mg/Kg	1	10/07/2015 9:36	83224
Barium	22		8.0	mg/Kg	1	10/07/2015 9:36	83224
Beryllium	0.56		0.20	mg/Kg	1	10/07/2015 9:36	83224
Cadmium	ND		0.20	mg/Kg	1	10/07/2015 9:36	83224
Chromium	8.6	B	0.80	mg/Kg	1	10/07/2015 9:36	83224
Copper	11		1.2	mg/Kg	1	10/07/2015 9:36	83224
Lead	7.9		0.40	mg/Kg	1	10/07/2015 9:36	83224
Manganese	300		2.0	mg/Kg	1	10/09/2015 16:22	83224
Nickel	11	B	2.0	mg/Kg	1	10/07/2015 9:36	83224
Selenium	ND		1.2	mg/Kg	1	10/07/2015 9:36	83224
Silver	ND		1.2	mg/Kg	1	10/07/2015 9:36	83224
Thallium	0.19	J	0.80	mg/Kg	1	10/09/2015 16:22	83224
Vanadium	13		2.0	mg/Kg	1	10/07/2015 9:36	83224
Zinc	26		2.0	mg/Kg	1	10/07/2015 9:36	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0078	J	0.041	mg/Kg	1	10/07/2015 16:21	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.88	mg/Kg	1	10/07/2015 9:55	83224
Arsenic	5.9		0.88	mg/Kg	1	10/07/2015 9:55	83224
Barium	25		8.8	mg/Kg	1	10/07/2015 9:55	83224
Beryllium	0.40		0.22	mg/Kg	1	10/07/2015 9:55	83224
Cadmium	ND		0.22	mg/Kg	1	10/07/2015 9:55	83224
Chromium	11	B	0.88	mg/Kg	1	10/07/2015 9:55	83224
Copper	12		1.3	mg/Kg	1	10/07/2015 9:55	83224
Lead	8.8		0.44	mg/Kg	1	10/07/2015 9:55	83224
Manganese	340		2.2	mg/Kg	1	10/09/2015 16:41	83224
Nickel	11	B	2.2	mg/Kg	1	10/07/2015 9:55	83224
Selenium	ND		1.3	mg/Kg	1	10/07/2015 9:55	83224
Silver	ND		1.3	mg/Kg	1	10/07/2015 9:55	83224
Thallium	0.64	J	0.88	mg/Kg	1	10/09/2015 16:41	83224
Vanadium	9.7		2.2	mg/Kg	1	10/07/2015 9:55	83224
Zinc	29		2.2	mg/Kg	1	10/07/2015 9:55	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.039	mg/Kg	1	10/07/2015 16:30	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002 **Project:** Barrington, RI site
Lab ID: P1467-09 **Collection Date:** 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.97	mg/Kg	1	10/07/2015 9:59	83224
Arsenic	6.6		0.97	mg/Kg	1	10/07/2015 9:59	83224
Barium	13		9.7	mg/Kg	1	10/07/2015 9:59	83224
Beryllium	0.29		0.24	mg/Kg	1	10/07/2015 9:59	83224
Cadmium	ND		0.24	mg/Kg	1	10/07/2015 9:59	83224
Chromium	6.8	B	0.97	mg/Kg	1	10/07/2015 9:59	83224
Copper	8.3		1.4	mg/Kg	1	10/07/2015 9:59	83224
Lead	5.1		0.48	mg/Kg	1	10/07/2015 9:59	83224
Manganese	170		2.4	mg/Kg	1	10/09/2015 16:45	83224
Nickel	8.5	B	2.4	mg/Kg	1	10/07/2015 9:59	83224
Selenium	ND		1.4	mg/Kg	1	10/07/2015 9:59	83224
Silver	ND		1.4	mg/Kg	1	10/07/2015 9:59	83224
Thallium	ND		0.97	mg/Kg	1	10/09/2015 16:45	83224
Vanadium	9.5		2.4	mg/Kg	1	10/07/2015 9:59	83224
Zinc	21		2.4	mg/Kg	1	10/07/2015 9:59	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0080	J	0.042	mg/Kg	1	10/07/2015 16:31	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.91	mg/Kg	1	10/07/2015 10:03	83224
Arsenic	5.0		0.91	mg/Kg	1	10/07/2015 10:03	83224
Barium	30		9.1	mg/Kg	1	10/07/2015 10:03	83224
Beryllium	0.31		0.23	mg/Kg	1	10/07/2015 10:03	83224
Cadmium	0.15	J	0.23	mg/Kg	1	10/07/2015 10:03	83224
Chromium	6.4	B	0.91	mg/Kg	1	10/07/2015 10:03	83224
Copper	23		1.4	mg/Kg	1	10/07/2015 10:03	83224
Lead	9.9		0.45	mg/Kg	1	10/07/2015 10:03	83224
Manganese	290		2.3	mg/Kg	1	10/09/2015 16:49	83224
Nickel	21	B	2.3	mg/Kg	1	10/07/2015 10:03	83224
Selenium	ND		1.4	mg/Kg	1	10/07/2015 10:03	83224
Silver	ND		1.4	mg/Kg	1	10/07/2015 10:03	83224
Thallium	1.1		0.91	mg/Kg	1	10/09/2015 16:49	83224
Vanadium	9.0		2.3	mg/Kg	1	10/07/2015 10:03	83224
Zinc	110		2.3	mg/Kg	1	10/07/2015 10:03	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.046	mg/Kg	1	10/07/2015 16:33	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02 **Project:** Barrington, RI site
Lab ID: P1467-11 **Collection Date:** 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		1.0	mg/Kg	1	10/07/2015 10:14	83224
Arsenic	7.0		1.0	mg/Kg	1	10/07/2015 10:14	83224
Barium	14		10	mg/Kg	1	10/07/2015 10:14	83224
Beryllium	0.31		0.26	mg/Kg	1	10/07/2015 10:14	83224
Cadmium	ND		0.26	mg/Kg	1	10/07/2015 10:14	83224
Chromium	7.5	B	1.0	mg/Kg	1	10/07/2015 10:14	83224
Copper	9.1		1.6	mg/Kg	1	10/07/2015 10:14	83224
Lead	5.9		0.52	mg/Kg	1	10/07/2015 10:14	83224
Manganese	180		2.6	mg/Kg	1	10/09/2015 17:00	83224
Nickel	9.6	B	2.6	mg/Kg	1	10/07/2015 10:14	83224
Selenium	ND		1.6	mg/Kg	1	10/07/2015 10:14	83224
Silver	ND		1.6	mg/Kg	1	10/07/2015 10:14	83224
Thallium	ND		1.0	mg/Kg	1	10/09/2015 17:00	83224
Vanadium	10		2.6	mg/Kg	1	10/07/2015 10:14	83224
Zinc	23		2.6	mg/Kg	1	10/07/2015 10:14	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0094	J	0.040	mg/Kg	1	10/07/2015 16:35	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002 **Project:** Barrington, RI site
Lab ID: P1467-12 **Collection Date:** 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		1.1	mg/Kg	1	10/07/2015 10:18	83224
Arsenic	5.6		1.1	mg/Kg	1	10/07/2015 10:18	83224
Barium	30		11	mg/Kg	1	10/07/2015 10:18	83224
Beryllium	0.37		0.28	mg/Kg	1	10/07/2015 10:18	83224
Cadmium	ND		0.28	mg/Kg	1	10/07/2015 10:18	83224
Chromium	5.5	B	1.1	mg/Kg	1	10/07/2015 10:18	83224
Copper	9.3		1.7	mg/Kg	1	10/07/2015 10:18	83224
Lead	20		0.56	mg/Kg	1	10/07/2015 10:18	83224
Manganese	140		2.8	mg/Kg	1	10/09/2015 17:04	83224
Nickel	5.1	B	2.8	mg/Kg	1	10/07/2015 10:18	83224
Selenium	ND		1.7	mg/Kg	1	10/07/2015 10:18	83224
Silver	ND		1.7	mg/Kg	1	10/07/2015 10:18	83224
Thallium	ND		1.1	mg/Kg	1	10/09/2015 17:04	83224
Vanadium	11		2.8	mg/Kg	1	10/07/2015 10:18	83224
Zinc	20		2.8	mg/Kg	1	10/07/2015 10:18	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.033	J	0.046	mg/Kg	1	10/07/2015 16:36	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507 **Project:** Barrington, RI site
Lab ID: P1467-13 **Collection Date:** 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.87	mg/Kg	1	10/07/2015 10:21	83224
Arsenic	6.6		0.87	mg/Kg	1	10/07/2015 10:21	83224
Barium	21		8.7	mg/Kg	1	10/07/2015 10:21	83224
Beryllium	0.26		0.22	mg/Kg	1	10/07/2015 10:21	83224
Cadmium	ND		0.22	mg/Kg	1	10/07/2015 10:21	83224
Chromium	8.9	B	0.87	mg/Kg	1	10/07/2015 10:21	83224
Copper	18		1.3	mg/Kg	1	10/07/2015 10:21	83224
Lead	13		0.43	mg/Kg	1	10/07/2015 10:21	83224
Manganese	500		2.2	mg/Kg	1	10/09/2015 17:08	83224
Nickel	17	B	2.2	mg/Kg	1	10/07/2015 10:21	83224
Selenium	ND		1.3	mg/Kg	1	10/07/2015 10:21	83224
Silver	ND		1.3	mg/Kg	1	10/07/2015 10:21	83224
Thallium	ND		0.87	mg/Kg	1	10/09/2015 17:08	83224
Vanadium	8.6		2.2	mg/Kg	1	10/07/2015 10:21	83224
Zinc	40		2.2	mg/Kg	1	10/07/2015 10:21	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.039	mg/Kg	1	10/07/2015 16:38	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002 **Project:** Barrington, RI site
Lab ID: P1467-14 **Collection Date:** 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		1.1	mg/Kg	1	10/07/2015 10:25	83224
Arsenic	ND		1.1	mg/Kg	1	10/07/2015 10:25	83224
Barium	11		11	mg/Kg	1	10/07/2015 10:25	83224
Beryllium	0.10	J	0.27	mg/Kg	1	10/07/2015 10:25	83224
Cadmium	0.034	J	0.27	mg/Kg	1	10/07/2015 10:25	83224
Chromium	2.3	B	1.1	mg/Kg	1	10/07/2015 10:25	83224
Copper	4.6		1.6	mg/Kg	1	10/07/2015 10:25	83224
Lead	9.2		0.53	mg/Kg	1	10/07/2015 10:25	83224
Manganese	43		2.7	mg/Kg	1	10/09/2015 17:11	83224
Nickel	2.2	BJ	2.7	mg/Kg	1	10/07/2015 10:25	83224
Selenium	4.9		1.6	mg/Kg	1	10/07/2015 10:25	83224
Silver	0.78	J	1.6	mg/Kg	1	10/07/2015 10:25	83224
Thallium	0.46	J	1.1	mg/Kg	1	10/09/2015 17:11	83224
Vanadium	4.8		2.7	mg/Kg	1	10/07/2015 10:25	83224
Zinc	8.6		2.7	mg/Kg	1	10/07/2015 10:25	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.015	J	0.044	mg/Kg	1	10/07/2015 16:40	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012 **Project:** Barrington, RI site
Lab ID: P1467-15 **Collection Date:** 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.85	mg/Kg	1	10/07/2015 10:28	83224
Arsenic	10		0.85	mg/Kg	1	10/07/2015 10:28	83224
Barium	10		8.5	mg/Kg	1	10/07/2015 10:28	83224
Beryllium	0.16	J	0.21	mg/Kg	1	10/07/2015 10:28	83224
Cadmium	0.015	J	0.21	mg/Kg	1	10/07/2015 10:28	83224
Chromium	15	B	0.85	mg/Kg	1	10/07/2015 10:28	83224
Copper	23		1.3	mg/Kg	1	10/07/2015 10:28	83224
Lead	5.5		0.43	mg/Kg	1	10/07/2015 10:28	83224
Manganese	290		2.1	mg/Kg	1	10/09/2015 17:15	83224
Nickel	29	B	2.1	mg/Kg	1	10/07/2015 10:28	83224
Selenium	ND		1.3	mg/Kg	1	10/07/2015 10:28	83224
Silver	ND		1.3	mg/Kg	1	10/07/2015 10:28	83224
Thallium	ND		0.85	mg/Kg	1	10/09/2015 17:15	83224
Vanadium	12		2.1	mg/Kg	1	10/07/2015 10:28	83224
Zinc	51		2.1	mg/Kg	1	10/07/2015 10:28	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.044	mg/Kg	1	10/07/2015 16:41	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.75	mg/Kg	1	10/07/2015 10:32	83224
Arsenic	7.1		0.75	mg/Kg	1	10/07/2015 10:32	83224
Barium	12		7.5	mg/Kg	1	10/07/2015 10:32	83224
Beryllium	0.34		0.19	mg/Kg	1	10/07/2015 10:32	83224
Cadmium	ND		0.19	mg/Kg	1	10/07/2015 10:32	83224
Chromium	6.8	B	0.75	mg/Kg	1	10/07/2015 10:32	83224
Copper	10		1.1	mg/Kg	1	10/07/2015 10:32	83224
Lead	12		0.37	mg/Kg	1	10/07/2015 10:32	83224
Manganese	180		1.9	mg/Kg	1	10/09/2015 17:19	83224
Nickel	8.3	B	1.9	mg/Kg	1	10/07/2015 10:32	83224
Selenium	ND		1.1	mg/Kg	1	10/07/2015 10:32	83224
Silver	ND		1.1	mg/Kg	1	10/07/2015 10:32	83224
Thallium	ND		0.75	mg/Kg	1	10/09/2015 17:19	83224
Vanadium	11		1.9	mg/Kg	1	10/07/2015 10:32	83224
Zinc	24		1.9	mg/Kg	1	10/07/2015 10:32	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.017	J	0.039	mg/Kg	1	10/07/2015 16:46	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		1.0	mg/Kg	1	10/09/2015 17:45	83224
Arsenic	7.9		1.0	mg/Kg	1	10/09/2015 17:45	83224
Barium	18		10	mg/Kg	1	10/09/2015 17:45	83224
Beryllium	0.33		0.26	mg/Kg	1	10/09/2015 17:45	83224
Cadmium	0.12	J	0.26	mg/Kg	1	10/09/2015 17:45	83224
Chromium	16	B	1.0	mg/Kg	1	10/09/2015 17:45	83224
Copper	26		1.6	mg/Kg	1	10/09/2015 17:45	83224
Lead	13		0.52	mg/Kg	1	10/09/2015 17:45	83224
Manganese	690		2.6	mg/Kg	1	10/09/2015 17:45	83224
Nickel	26		2.6	mg/Kg	1	10/09/2015 17:45	83224
Selenium	ND		1.6	mg/Kg	1	10/09/2015 17:45	83224
Silver	0.30	J	1.6	mg/Kg	1	10/09/2015 17:45	83224
Thallium	ND		1.0	mg/Kg	1	10/09/2015 17:45	83224
Vanadium	11		2.6	mg/Kg	1	10/09/2015 17:45	83224
Zinc	50		2.6	mg/Kg	1	10/09/2015 17:45	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.043	mg/Kg	1	10/07/2015 16:52	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.87	mg/Kg	1	10/09/2015 17:49	83224
Arsenic	6.4		0.87	mg/Kg	1	10/09/2015 17:49	83224
Barium	14		8.7	mg/Kg	1	10/09/2015 17:49	83224
Beryllium	0.28		0.22	mg/Kg	1	10/09/2015 17:49	83224
Cadmium	0.071	J	0.22	mg/Kg	1	10/09/2015 17:49	83224
Chromium	8.4	B	0.87	mg/Kg	1	10/09/2015 17:49	83224
Copper	13		1.3	mg/Kg	1	10/09/2015 17:49	83224
Lead	21		0.44	mg/Kg	1	10/09/2015 17:49	83224
Manganese	190		2.2	mg/Kg	1	10/09/2015 17:49	83224
Nickel	7.6		2.2	mg/Kg	1	10/09/2015 17:49	83224
Selenium	0.76	J	1.3	mg/Kg	1	10/09/2015 17:49	83224
Silver	0.062	J	1.3	mg/Kg	1	10/09/2015 17:49	83224
Thallium	ND		0.87	mg/Kg	1	10/09/2015 17:49	83224
Vanadium	11		2.2	mg/Kg	1	10/09/2015 17:49	83224
Zinc	23		2.2	mg/Kg	1	10/09/2015 17:49	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.057		0.043	mg/Kg	1	10/07/2015 16:53	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507 **Project:** Barrington, RI site
Lab ID: P1467-19 **Collection Date:** 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.96	mg/Kg	1	10/09/2015 17:53	83224
Arsenic	5.5		0.96	mg/Kg	1	10/09/2015 17:53	83224
Barium	20		9.6	mg/Kg	1	10/09/2015 17:53	83224
Beryllium	0.40		0.24	mg/Kg	1	10/09/2015 17:53	83224
Cadmium	0.20	J	0.24	mg/Kg	1	10/09/2015 17:53	83224
Chromium	9.4	B	0.96	mg/Kg	1	10/09/2015 17:53	83224
Copper	17		1.4	mg/Kg	1	10/09/2015 17:53	83224
Lead	13		0.48	mg/Kg	1	10/09/2015 17:53	83224
Manganese	390		2.4	mg/Kg	1	10/09/2015 17:53	83224
Nickel	12		2.4	mg/Kg	1	10/09/2015 17:53	83224
Selenium	ND		1.4	mg/Kg	1	10/09/2015 17:53	83224
Silver	0.15	J	1.4	mg/Kg	1	10/09/2015 17:53	83224
Thallium	ND		0.96	mg/Kg	1	10/09/2015 17:53	83224
Vanadium	8.6		2.4	mg/Kg	1	10/09/2015 17:53	83224
Zinc	30		2.4	mg/Kg	1	10/09/2015 17:53	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.039	mg/Kg	1	10/07/2015 16:55	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.87	mg/Kg	1	10/09/2015 17:56	83224
Arsenic	4.6		0.87	mg/Kg	1	10/09/2015 17:56	83224
Barium	8.7	J	8.7	mg/Kg	1	10/09/2015 17:56	83224
Beryllium	0.31		0.22	mg/Kg	1	10/09/2015 17:56	83224
Cadmium	0.15	J	0.22	mg/Kg	1	10/09/2015 17:56	83224
Chromium	8.6	B	0.87	mg/Kg	1	10/09/2015 17:56	83224
Copper	12		1.3	mg/Kg	1	10/09/2015 17:56	83224
Lead	7.6		0.44	mg/Kg	1	10/09/2015 17:56	83224
Manganese	190		2.2	mg/Kg	1	10/09/2015 17:56	83224
Nickel	9.6		2.2	mg/Kg	1	10/09/2015 17:56	83224
Selenium	ND		1.3	mg/Kg	1	10/09/2015 17:56	83224
Silver	0.11	J	1.3	mg/Kg	1	10/09/2015 17:56	83224
Thallium	ND		0.87	mg/Kg	1	10/09/2015 17:56	83224
Vanadium	8.9		2.2	mg/Kg	1	10/09/2015 17:56	83224
Zinc	24		2.2	mg/Kg	1	10/09/2015 17:56	83224
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0035	J	0.037	mg/Kg	1	10/07/2015 16:57	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01 **Project:** Barrington, RI site
Lab ID: P1467-21 **Collection Date:** 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.93	mg/Kg	1	10/07/2015 8:41	83225
Arsenic	4.8		0.93	mg/Kg	1	10/07/2015 8:41	83225
Barium	11		9.3	mg/Kg	1	10/07/2015 8:41	83225
Beryllium	0.23	J	0.23	mg/Kg	1	10/07/2015 8:41	83225
Cadmium	ND		0.23	mg/Kg	1	10/07/2015 8:41	83225
Chromium	8.0	B	0.93	mg/Kg	1	10/07/2015 8:41	83225
Copper	9.7		1.4	mg/Kg	1	10/07/2015 8:41	83225
Lead	6.8		0.46	mg/Kg	1	10/07/2015 8:41	83225
Manganese	220		2.3	mg/Kg	1	10/09/2015 15:26	83225
Nickel	10		2.3	mg/Kg	1	10/07/2015 8:41	83225
Selenium	ND		1.4	mg/Kg	1	10/07/2015 8:41	83225
Silver	ND		1.4	mg/Kg	1	10/07/2015 8:41	83225
Thallium	0.23	J	0.93	mg/Kg	1	10/09/2015 15:26	83225
Vanadium	9.7		2.3	mg/Kg	1	10/07/2015 8:41	83225
Zinc	26		2.3	mg/Kg	1	10/07/2015 8:41	83225
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	0.0058	J	0.041	mg/Kg	1	10/07/2015 16:58	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/13/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709 **Project:** Barrington, RI site
Lab ID: P1467-22 **Collection Date:** 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 6010C -- Metals by ICP							**SW6010_S**
Antimony	ND		0.92	mg/Kg	1	10/07/2015 8:45	83225
Arsenic	8.2		0.92	mg/Kg	1	10/07/2015 8:45	83225
Barium	13		9.2	mg/Kg	1	10/07/2015 8:45	83225
Beryllium	0.31		0.23	mg/Kg	1	10/07/2015 8:45	83225
Cadmium	ND		0.23	mg/Kg	1	10/07/2015 8:45	83225
Chromium	17	B	0.92	mg/Kg	1	10/07/2015 8:45	83225
Copper	31		1.4	mg/Kg	1	10/07/2015 8:45	83225
Lead	12		0.46	mg/Kg	1	10/07/2015 8:45	83225
Manganese	370		2.3	mg/Kg	1	10/09/2015 15:29	83225
Nickel	25		2.3	mg/Kg	1	10/07/2015 8:45	83225
Selenium	ND		1.4	mg/Kg	1	10/07/2015 8:45	83225
Silver	ND		1.4	mg/Kg	1	10/07/2015 8:45	83225
Thallium	0.73	J	0.92	mg/Kg	1	10/09/2015 15:29	83225
Vanadium	14		2.3	mg/Kg	1	10/07/2015 8:45	83225
Zinc	61		2.3	mg/Kg	1	10/07/2015 8:45	83225
SW846 7471B -- Mercury by FIA							**SW7471**
Mercury	ND		0.040	mg/Kg	1	10/07/2015 17:00	83234

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **MB-83224** SampType: **MBLK** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **MB-83224** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 8:59** SeqNo: **2314174**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.38	1.0									
Arsenic	ND	0.41	1.0									
Barium	ND	0.031	10									
Beryllium	ND	0.0015	0.25									
Cadmium	ND	0.015	0.25									
Chromium	0.06321	0.019	1.0									J
Copper	ND	0.11	1.5									
Lead	ND	0.17	0.50									
Nickel	0.04351	0.043	2.5									J
Selenium	ND	0.64	1.5									
Silver	ND	0.064	1.5									
Vanadium	ND	0.060	2.5									
Zinc	ND	0.18	2.5									

Sample ID: **MB-83224** SampType: **MBLK** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA3_151009B**
Client ID: **MB-83224** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/09/15 15:45** SeqNo: **2315392**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.38	1.0									
Arsenic	ND	0.41	1.0									
Barium	ND	0.031	10									
Beryllium	ND	0.0015	0.25									
Cadmium	ND	0.015	0.25									
Chromium	0.03873	0.019	1.0									J
Copper	ND	0.11	1.5									
Lead	ND	0.17	0.50									
Manganese	ND	0.13	2.5									
Nickel	ND	0.043	2.5									
Selenium	ND	0.64	1.5									
Silver	ND	0.064	1.5									
Thallium	ND	0.22	1.0									
Vanadium	ND	0.060	2.5									
Zinc	ND	0.18	2.5									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S
SW846 6010C -- Metals by ICP

Sample ID: **MB-83225** SampType: **MBLK** TestCode: **SW6010_S** Prep Date: **10/06/15 13:00** Run ID: **OPTIMA2_151007A**
Client ID: **MB-83225** Batch ID: **83225** Units: **mg/Kg** Analysis Date: **10/07/15 8:30** SeqNo: **2314166**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.38	1.0									
Arsenic	ND	0.41	1.0									
Barium	ND	0.031	10									
Beryllium	ND	0.0015	0.25									
Cadmium	ND	0.015	0.25									
Chromium	0.04576	0.019	1.0									J
Copper	ND	0.11	1.5									
Lead	ND	0.17	0.50									
Nickel	ND	0.043	2.5									
Selenium	ND	0.64	1.5									
Silver	ND	0.064	1.5									
Vanadium	ND	0.060	2.5									
Zinc	ND	0.18	2.5									

Sample ID: **MB-83225** SampType: **MBLK** TestCode: **SW6010_S** Prep Date: **10/06/15 13:00** Run ID: **OPTIMA3_151009B**
Client ID: **MB-83225** Batch ID: **83225** Units: **mg/Kg** Analysis Date: **10/09/15 15:10** SeqNo: **2315383**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	0.4539	0.38	1.0									J
Arsenic	ND	0.41	1.0									
Barium	0.03665	0.031	10									J
Beryllium	ND	0.0015	0.25									
Cadmium	ND	0.015	0.25									
Chromium	0.02827	0.019	1.0									J
Copper	ND	0.11	1.5									
Lead	0.2056	0.17	0.50									J
Manganese	ND	0.13	2.5									
Nickel	ND	0.043	2.5									
Selenium	ND	0.64	1.5									
Silver	ND	0.064	1.5									
Thallium	ND	0.22	1.0									
Vanadium	ND	0.060	2.5									
Zinc	ND	0.18	2.5									

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **LCS-83224** SampType: **LCS** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **LCS-83224** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 9:03** SeqNo: **2314175**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	28.19	0.38	1.0	25.00	0	113	80	120	0			
Arsenic	27.21	0.41	1.0	25.00	0	109	80	120	0			
Barium	544.6	0.031	10	500.0	0	109	80	120	0			
Beryllium	13.07	0.0015	0.25	12.50	0	105	80	120	0			
Cadmium	13.51	0.015	0.25	12.50	0	108	80	120	0			
Chromium	52.81	0.019	1.0	50.00	0	106	80	120	0			B
Copper	68.62	0.11	1.5	62.50	0	110	80	120	0			
Lead	27.02	0.17	0.50	25.00	0	108	80	120	0			
Nickel	135.0	0.043	2.5	125.0	0	108	80	120	0			B
Selenium	26.84	0.64	1.5	25.00	0	107	80	120	0			
Silver	66.73	0.064	1.5	62.50	0	107	75	120	0			
Vanadium	131.6	0.060	2.5	125.0	0	105	80	120	0			
Zinc	135.8	0.18	2.5	125.0	0	109	80	120	0			

Sample ID: **LCS-83224** SampType: **LCS** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA3_151009B**
Client ID: **LCS-83224** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/09/15 15:49** SeqNo: **2315393**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	24.84	0.38	1.0	25.00	0	99.3	80	120	0			
Arsenic	24.12	0.41	1.0	25.00	0	96.5	80	120	0			
Barium	480.7	0.031	10	500.0	0	96.1	80	120	0			
Beryllium	11.69	0.0015	0.25	12.50	0	93.5	80	120	0			
Cadmium	11.98	0.015	0.25	12.50	0	95.8	80	120	0			
Chromium	49.69	0.019	1.0	50.00	0	99.4	80	120	0			B
Copper	59.84	0.11	1.5	62.50	0	95.8	80	120	0			
Lead	23.80	0.17	0.50	25.00	0	95.2	80	120	0			
Manganese	120.0	0.13	2.5	125.0	0	96.0	80	120	0			
Nickel	120.5	0.043	2.5	125.0	0	96.4	80	120	0			
Selenium	22.61	0.64	1.5	25.00	0	90.4	80	120	0			
Silver	59.16	0.064	1.5	62.50	0	94.7	75	120	0			
Thallium	24.41	0.22	1.0	25.00	0	97.6	80	120	0			
Vanadium	120.3	0.060	2.5	125.0	0	96.2	80	120	0			
Zinc	117.6	0.18	2.5	125.0	0	94.1	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **LCS-83225** SampType: **LCS** TestCode: **SW6010_S** Prep Date: **10/06/15 13:00** Run ID: **OPTIMA2_151007A**
Client ID: **LCS-83225** Batch ID: **83225** Units: **mg/Kg** Analysis Date: **10/07/15 8:34** SeqNo: **2314167**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	28.97	0.38	1.0	25.00	0	116	80	120	0			
Arsenic	27.78	0.41	1.0	25.00	0	111	80	120	0			
Barium	559.8	0.031	10	500.0	0	112	80	120	0			
Beryllium	13.47	0.0015	0.25	12.50	0	108	80	120	0			
Cadmium	14.04	0.015	0.25	12.50	0	112	80	120	0			
Chromium	54.88	0.019	1.0	50.00	0	110	80	120	0			B
Copper	71.68	0.11	1.5	62.50	0	115	80	120	0			
Lead	27.74	0.17	0.50	25.00	0	111	80	120	0			
Nickel	140.0	0.043	2.5	125.0	0	112	80	120	0			
Selenium	27.35	0.64	1.5	25.00	0	109	80	120	0			
Silver	69.27	0.064	1.5	62.50	0	111	75	120	0			
Vanadium	135.7	0.060	2.5	125.0	0	109	80	120	0			
Zinc	140.4	0.18	2.5	125.0	0	112	80	120	0			

Sample ID: **LCS-83225** SampType: **LCS** TestCode: **SW6010_S** Prep Date: **10/06/15 13:00** Run ID: **OPTIMA3_151009B**
Client ID: **LCS-83225** Batch ID: **83225** Units: **mg/Kg** Analysis Date: **10/09/15 15:14** SeqNo: **2315384**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	26.80	0.38	1.0	25.00	0	107	80	120	0			B
Arsenic	25.88	0.41	1.0	25.00	0	104	80	120	0			
Barium	515.7	0.031	10	500.0	0	103	80	120	0			B
Beryllium	12.54	0.0015	0.25	12.50	0	100	80	120	0			
Cadmium	12.76	0.015	0.25	12.50	0	102	80	120	0			
Chromium	52.37	0.019	1.0	50.00	0	105	80	120	0			B
Copper	64.07	0.11	1.5	62.50	0	103	80	120	0			
Lead	25.63	0.17	0.50	25.00	0	103	80	120	0			B
Manganese	128.7	0.13	2.5	125.0	0	103	80	120	0			
Nickel	127.5	0.043	2.5	125.0	0	102	80	120	0			
Selenium	24.67	0.64	1.5	25.00	0	98.7	80	120	0			
Silver	62.83	0.064	1.5	62.50	0	101	75	120	0			
Thallium	25.88	0.22	1.0	25.00	0	104	80	120	0			
Vanadium	128.7	0.060	2.5	125.0	0	103	80	120	0			
Zinc	125.0	0.18	2.5	125.0	0	100	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **P1467-07ADUP** SampType: **DUP** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **NOB-119-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 9:41** SeqNo: **2314185**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.35	0.92	0	0	0	0	0	0	0	20	
Arsenic	5.694	0.38	0.92	0	0	0	0	0	5.366	5.93	20	
Barium	22.49	0.029	9.2	0	0	0	0	0	22.26	1.04	20	
Beryllium	0.5592	0.0014	0.23	0	0	0	0	0	0.5552	0.729	20	
Cadmium	ND	0.014	0.23	0	0	0	0	0	0	0	20	
Chromium	9.324	0.018	0.92	0	0	0	0	0	8.581	8.3	20	B
Copper	11.51	0.10	1.4	0	0	0	0	0	10.64	7.89	20	
Lead	7.544	0.16	0.46	0	0	0	0	0	7.860	4.1	20	
Nickel	11.52	0.040	2.3	0	0	0	0	0	10.74	7.05	20	B
Selenium	ND	0.59	1.4	0	0	0	0	0	0	0	20	
Silver	ND	0.059	1.4	0	0	0	0	0	0	0	20	
Vanadium	12.85	0.055	2.3	0	0	0	0	0	12.61	1.83	20	
Zinc	27.69	0.17	2.3	0	0	0	0	0	26.02	6.21	20	

Sample ID: **P1467-07ADUP** SampType: **DUP** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA3_151009B**
Client ID: **NOB-119-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/09/15 16:26** SeqNo: **2315403**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	285.9	0.12	2.3	0	0	0	0	0	299.0	4.49	20	
Thallium	ND	0.20	0.92	0	0	0	0	0	0.1944	0	20	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **P1467-16ADUP** SampType: **DUP** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **NOB-109-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 10:36** SeqNo: **2314200**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	0.37	0.97	0	0	0	0	0	0	0	20	
Arsenic	6.137	0.40	0.97	0	0	0	0	0	7.126	14.9	20	
Barium	13.02	0.030	9.7	0	0	0	0	0	12.25	6.12	20	
Beryllium	0.3356	0.0015	0.24	0	0	0	0	0	0.3368	0.356	20	
Cadmium	ND	0.015	0.24	0	0	0	0	0	0	0	20	
Chromium	8.000	0.018	0.97	0	0	0	0	0	6.785	16.4	20	B
Copper	9.931	0.11	1.5	0	0	0	0	0	10.20	2.66	20	
Lead	10.74	0.16	0.48	0	0	0	0	0	12.14	12.2	20	
Nickel	8.687	0.042	2.4	0	0	0	0	0	8.335	4.13	20	B
Selenium	ND	0.62	1.5	0	0	0	0	0	0	0	20	
Silver	ND	0.062	1.5	0	0	0	0	0	0	0	20	
Vanadium	11.49	0.058	2.4	0	0	0	0	0	10.79	6.27	20	
Zinc	23.62	0.17	2.4	0	0	0	0	0	23.61	0.0549	20	

Sample ID: **P1467-16ADUP** SampType: **DUP** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA3_151009B**
Client ID: **NOB-109-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/09/15 17:23** SeqNo: **2315418**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	202.6	0.13	2.4	0	0	0	0	0	184.4	9.45	20	
Thallium	ND	0.21	0.97	0	0	0	0	0	0	0	20	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S
SW846 6010C -- Metals by ICP

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **NOB-119-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 9:44** SeqNo: **2314186**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	12.45	0.27	0.72	17.97	0	69.3	80	120	0			S
Arsenic	25.07	0.29	0.72	17.97	5.366	110	80	120	0			
Barium	406.3	0.022	7.2	359.3	22.26	107	80	120	0			
Beryllium	9.839	0.0011	0.18	8.984	0.5552	103	80	120	0			
Cadmium	9.569	0.011	0.18	8.984	0	107	80	120	0			
Chromium	46.04	0.014	0.72	35.93	8.581	104	80	120	0			B
Copper	63.62	0.079	1.1	44.92	10.64	118	80	120	0			
Lead	26.61	0.12	0.36	17.97	7.860	104	80	120	0			
Nickel	107.7	0.031	1.8	89.84	10.74	108	80	120	0			B
Selenium	19.03	0.46	1.1	17.97	0	106	80	120	0			
Silver	49.79	0.046	1.1	44.92	0	111	75	120	0			
Vanadium	105.9	0.043	1.8	89.84	12.61	104	80	120	0			
Zinc	123.3	0.13	1.8	89.84	26.02	108	80	120	0			

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA3_151009B**
Client ID: **NOB-119-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/09/15 16:30** SeqNo: **2315404**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	18.03	0.16	0.72	17.97	0.1944	99.3	80	120	0			

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **NOB-109-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 10:40** SeqNo: **2314201**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	19.45	0.36	0.94	23.55	0	82.6	80	120	0			
Arsenic	33.54	0.39	0.94	23.55	7.126	112	80	120	0			
Barium	531.4	0.029	9.4	471.0	12.25	110	80	120	0			
Beryllium	13.03	0.0014	0.24	11.77	0.3368	108	80	120	0			
Cadmium	12.90	0.014	0.24	11.77	0	110	80	120	0			
Chromium	58.19	0.018	0.94	47.10	6.785	109	80	120	0			B
Copper	81.79	0.10	1.4	58.87	10.20	122	80	120	0			S
Lead	36.89	0.16	0.47	23.55	12.14	105	80	120	0			
Nickel	138.9	0.041	2.4	117.7	8.335	111	80	120	0			B
Selenium	26.15	0.60	1.4	23.55	0	111	80	120	0			
Silver	66.83	0.060	1.4	58.87	0	114	75	120	0			
Vanadium	136.6	0.057	2.4	117.7	10.79	107	80	120	0			
Zinc	154.7	0.17	2.4	117.7	23.61	111	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA3_151009B**
Client ID: **NOB-109-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/09/15 17:26** SeqNo: **2315419**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Thallium	23.72	0.21	0.94	23.55	0	101	80	120	0			

Sample ID: **P1467-07ASD** SampType: **SD** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **NOB-119-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 9:48** SeqNo: **2314187**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	1.5	4.0	0	0	0	0	0	0	0	10	
Arsenic	5.848	1.6	4.0	0	0	0	0	0	5.366	8.6	10	
Barium	25.90	0.12	40	0	0	0	0	0	22.26	15.1	10	JR
Beryllium	0.6460	0.0060	1.0	0	0	0	0	0	0.5552	15.1	10	JR
Cadmium	ND	0.060	1.0	0	0	0	0	0	0	0	10	
Chromium	9.224	0.076	4.0	0	0	0	0	0	8.581	7.22	10	B
Copper	11.37	0.44	6.0	0	0	0	0	0	10.64	6.62	10	
Lead	8.457	0.68	2.0	0	0	0	0	0	7.860	7.31	10	
Nickel	12.07	0.17	10	0	0	0	0	0	10.74	11.7	10	BR
Selenium	ND	2.6	6.0	0	0	0	0	0	0	0	10	
Silver	ND	0.26	6.0	0	0	0	0	0	0	0	10	
Vanadium	13.69	0.24	10	0	0	0	0	0	12.61	8.19	10	
Zinc	27.90	0.72	10	0	0	0	0	0	26.02	6.98	10	

Sample ID: **P1467-07ASD** SampType: **SD** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA3_151009B**
Client ID: **NOB-119-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/09/15 16:34** SeqNo: **2315405**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	340.4	0.52	10	0	0	0	0	0	299.0	12.9	10	R
Thallium	ND	0.88	4.0	0	0	0	0	0	0.1944	0	10	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **P1467-16ASD** SampType: **SD** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **NOB-109-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 10:44** SeqNo: **2314202**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	1.4	3.7	0	0	0	0	0	0	0	10	
Arsenic	7.415	1.5	3.7	0	0	0	0	0	7.126	3.97	10	
Barium	13.90	0.12	37	0	0	0	0	0	12.25	12.6	10	JR
Beryllium	0.3770	0.0056	0.94	0	0	0	0	0	0.3368	11.3	10	JR
Cadmium	ND	0.056	0.94	0	0	0	0	0	0	0	10	
Chromium	6.999	0.071	3.7	0	0	0	0	0	6.785	3.1	10	B
Copper	10.09	0.41	5.6	0	0	0	0	0	10.20	1.1	10	
Lead	12.66	0.64	1.9	0	0	0	0	0	12.14	4.23	10	
Nickel	9.033	0.16	9.4	0	0	0	0	0	8.335	8.04	10	BJ
Selenium	ND	2.4	5.6	0	0	0	0	0	0	0	10	
Silver	ND	0.24	5.6	0	0	0	0	0	0	0	10	
Vanadium	10.84	0.22	9.4	0	0	0	0	0	10.79	0.431	10	
Zinc	23.89	0.67	9.4	0	0	0	0	0	23.61	1.2	10	

Sample ID: **P1467-16ASD** SampType: **SD** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA3_151009B**
Client ID: **NOB-109-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/09/15 17:30** SeqNo: **2315420**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	202.0	0.49	9.4	0	0	0	0	0	184.4	9.11	10	
Thallium	ND	0.82	3.7	0	0	0	0	0	0	0	10	

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW6010_S

SW846 6010C -- Metals by ICP

Sample ID: **P1467-22ASD** SampType: **SD** TestCode: **SW6010_S** Prep Date: **10/06/15 13:00** Run ID: **OPTIMA2_151007A**
Client ID: **NOB-111-0709** Batch ID: **83225** Units: **mg/Kg** Analysis Date: **10/07/15 8:49** SeqNo: **2314171**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	ND	1.8	4.6	0	0	0	0	0	0	0	10	
Arsenic	7.953	1.9	4.6	0	0	0	0	0	8.237	3.51	10	
Barium	13.09	0.14	46	0	0	0	0	0	12.77	2.49	10	J
Beryllium	0.3119	0.0069	1.2	0	0	0	0	0	0.3080	1.27	10	J
Cadmium	ND	0.069	1.2	0	0	0	0	0	0	0	10	
Chromium	16.82	0.088	4.6	0	0	0	0	0	16.84	0.126	10	B
Copper	29.49	0.51	6.9	0	0	0	0	0	30.57	3.6	10	
Lead	12.52	0.78	2.3	0	0	0	0	0	12.20	2.59	10	
Nickel	25.73	0.20	12	0	0	0	0	0	25.19	2.12	10	
Selenium	ND	3.0	6.9	0	0	0	0	0	0	0	10	
Silver	ND	0.30	6.9	0	0	0	0	0	0	0	10	
Vanadium	14.33	0.28	12	0	0	0	0	0	14.46	0.868	10	
Zinc	61.95	0.83	12	0	0	0	0	0	61.34	1.0	10	

Sample ID: **P1467-22ASD** SampType: **SD** TestCode: **SW6010_S** Prep Date: **10/06/15 13:00** Run ID: **OPTIMA3_151009B**
Client ID: **NOB-111-0709** Batch ID: **83225** Units: **mg/Kg** Analysis Date: **10/09/15 15:33** SeqNo: **2315389**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Manganese	409.9	0.60	12	0	0	0	0	0	370.3	10.2	10	R
Thallium	ND	1.0	4.6	0	0	0	0	0	0.7278	0	10	

Sample ID: **P1467-07APDS** SampType: **PDS** TestCode: **SW6010_S** Prep Date: **10/05/15 15:22** Run ID: **OPTIMA2_151007A**
Client ID: **NOB-119-0002** Batch ID: **83224** Units: **mg/Kg** Analysis Date: **10/07/15 9:52** SeqNo: **2314188**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Antimony	21.18	0.30	0.80	19.99	0	106	75	125	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7471

SW846 7471B -- Mercury by FIA

Sample ID: **MB-83233**	SampType: **MBLK**	TestCode: **SW7471**	Prep Date: **10/06/15 12:58**	Run ID: **FIMS2_151007A**
Client ID: **MB-83233**	Batch ID: **83233**	Units: **mg/Kg**	Analysis Date: **10/07/15 16:18**	SeqNo: **2314521**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0021	0.033									

Sample ID: **MB-83234**	SampType: **MBLK**	TestCode: **SW7471**	Prep Date: **10/06/15 11:00**	Run ID: **FIMS2_151006A**
Client ID: **MB-83234**	Batch ID: **83234**	Units: **mg/Kg**	Analysis Date: **10/06/15 13:50**	SeqNo: **2313370**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.0021	0.033									

Sample ID: **LCS-83233**	SampType: **LCS**	TestCode: **SW7471**	Prep Date: **10/06/15 12:58**	Run ID: **FIMS2_151007A**
Client ID: **LCS-83233**	Batch ID: **83233**	Units: **mg/Kg**	Analysis Date: **10/07/15 16:20**	SeqNo: **2314522**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.7377	0.0021	0.033	0.7580	0	97.3	80	120	0			

Sample ID: **LCS-83234**	SampType: **LCS**	TestCode: **SW7471**	Prep Date: **10/06/15 11:00**	Run ID: **FIMS2_151006A**
Client ID: **LCS-83234**	Batch ID: **83234**	Units: **mg/Kg**	Analysis Date: **10/06/15 13:52**	SeqNo: **2313371**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.7721	0.0021	0.033	0.7580	0	102	80	120	0			

Sample ID: **P1467-07ADUP**	SampType: **DUP**	TestCode: **SW7471**	Prep Date: **10/06/15 12:58**	Run ID: **FIMS2_151007A**
Client ID: **NOB-119-0002**	Batch ID: **83234**	Units: **mg/Kg**	Analysis Date: **10/07/15 16:26**	SeqNo: **2314290**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.008846	0.0024	0.037	0	0	0	0	0	0.007762	13.1	20	J

Sample ID: **P1467-16ADUP**	SampType: **DUP**	TestCode: **SW7471**	Prep Date: **10/06/15 12:58**	Run ID: **FIMS2_151007A**
Client ID: **NOB-109-0002**	Batch ID: **83234**	Units: **mg/Kg**	Analysis Date: **10/07/15 16:48**	SeqNo: **2314303**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.1375	0.0026	0.042	0	0	0	0	0	0.01744	155	20	R

Sample ID: **P1467-07AMS**	SampType: **MS**	TestCode: **SW7471**	Prep Date: **10/06/15 12:58**	Run ID: **FIMS2_151007A**
Client ID: **NOB-119-0002**	Batch ID: **83234**	Units: **mg/Kg**	Analysis Date: **10/07/15 16:28**	SeqNo: **2314291**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.8434	0.0024	0.038	0.8638	0.007762	96.7	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

m15.09.29.0942

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7471

SW846 7471B -- Mercury by FIA

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW7471** Prep Date: **10/06/15 12:58** Run ID: **FIMS2_151007A**

Client ID: **NOB-109-0002** Batch ID: **83234** Units: **mg/Kg** Analysis Date: **10/07/15 16:50** SeqNo: **2314304**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.8184	0.0024	0.037	0.8568	0.01744	93.5	80	120	0			

Qualifiers: ND - Not Detected at the MDL; J - Analyte detected below quanititation limits; S - Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; MDL - Method Detection Limit; RL - Reporting Limit; B - Analyte detected in the associated Method Blank

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0002 **Project:** Barrington, RI site
Lab ID: P1467-01 **Collection Date:** 09/30/15 8:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.0	mg/Kg	1	10/05/2015 11:48	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-124-0709 **Project:** Barrington, RI site
Lab ID: P1467-02 **Collection Date:** 09/30/15 8:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.1	mg/Kg	1	10/05/2015 11:53	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-0002 **Project:** Barrington, RI site
Lab ID: P1467-03 **Collection Date:** 09/30/15 9:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/05/2015 11:57	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-112-1214 **Project:** Barrington, RI site
Lab ID: P1467-04 **Collection Date:** 09/30/15 9:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.0	mg/Kg	1	10/05/2015 12:02	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0002 **Project:** Barrington, RI site
Lab ID: P1467-05 **Collection Date:** 09/30/15 9:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/05/2015 12:20	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-120-0810 **Project:** Barrington, RI site
Lab ID: P1467-06 **Collection Date:** 09/30/15 9:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.5	mg/Kg	1	10/05/2015 12:24	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0002 **Project:** Barrington, RI site
Lab ID: P1467-07 **Collection Date:** 09/30/15 9:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.3	mg/Kg	1	10/05/2015 12:29	83201

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-119-0507 **Project:** Barrington, RI site
Lab ID: P1467-08 **Collection Date:** 09/30/15 10:25

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.0	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-0002
Lab ID: P1467-09
Project: Barrington, RI site
Collection Date: 09/30/15 10:45

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.6	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-122-1315 **Project:** Barrington, RI site
Lab ID: P1467-10 **Collection Date:** 09/30/15 11:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		5.1	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-02
Lab ID: P1467-11
Project: Barrington, RI site
Collection Date: 09/30/15 10:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0002 **Project:** Barrington, RI site
Lab ID: P1467-12 **Collection Date:** 09/30/15 11:15

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		5.1	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-123-0507
Lab ID: P1467-13
Project: Barrington, RI site
Collection Date: 09/30/15 11:20

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-0002
Lab ID: P1467-14
Project: Barrington, RI site
Collection Date: 09/30/15 11:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.7	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-108-1012
Lab ID: P1467-15
Project: Barrington, RI site
Collection Date: 09/30/15 11:55

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.7	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0002 **Project:** Barrington, RI site
Lab ID: P1467-16 **Collection Date:** 09/30/15 12:50

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-109-0810 **Project:** Barrington, RI site
Lab ID: P1467-17 **Collection Date:** 09/30/15 13:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.4	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0002 **Project:** Barrington, RI site
Lab ID: P1467-18 **Collection Date:** 09/30/15 13:30

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.5	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-110-0507
Lab ID: P1467-19
Project: Barrington, RI site
Collection Date: 09/30/15 13:40

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.1	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0002 **Project:** Barrington, RI site
Lab ID: P1467-20 **Collection Date:** 09/30/15 14:00

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.1	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: DUP-01
Lab ID: P1467-21
Project: Barrington, RI site
Collection Date: 09/30/15 14:05

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.0	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

Eurofins Spectrum Analytical, Inc. -- ESA-RI

10/08/2015

Client: Nobis Engineering, Inc
Client Sample ID: NOB-111-0709 **Project:** Barrington, RI site
Lab ID: P1467-22 **Collection Date:** 09/30/15 14:10

Analyses	Result	Qual	RL	Units	DF	Date Analyzed	Batch ID
SW846 7196A -- CR+ by Colorimetric Method							**SW7196_S**
Chromium, Hexavalent	ND		4.6	mg/Kg	1	10/06/2015 16:00	83211

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quanititation limits
B - Analyte detected in the associated Method Blank
DF - Dilution Factor
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7196_S

SW846 7196A -- CR+ by Colorimetric Method

Sample ID: **MB-83201** SampType: **MBLK** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **MB-83201** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 11:00** SeqNo: **2313941**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	4.0	4.0									

Sample ID: **MB-83211** SampType: **MBLK** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **MB-83211** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 16:00** SeqNo: **2314205**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	4.0	4.0									

Sample ID: **LCS-83201** SampType: **LCS** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **LCS-83201** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 11:04** SeqNo: **2313943**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	18.82	4.0	4.0	20.00	0	94.1	80	120	0			

Sample ID: **LCS-83211** SampType: **LCS** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **LCS-83211** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 16:00** SeqNo: **2314206**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	18.40	4.0	4.0	20.00	0	92.0	80	120	0			

Sample ID: **LCSi-83201** SampType: **LCSi** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **LCSi-83201** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 11:08** SeqNo: **2313944**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	294.8	40	40	322.0	0	91.6	80	120	0			

Sample ID: **LCSi-83211** SampType: **LCSi** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **LCSi-83211** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 16:00** SeqNo: **2314207**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	302.0	40	40	322.0	0	93.8	80	120	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7196_S
SW846 7196A -- CR+ by Colorimetric Method

Sample ID: **P1467-07ADUP** SampType: **DUP** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **NOB-119-0002** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 12:33** SeqNo: **2313966**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	4.1	4.1	0	0	0	0	0	0	0	20	

Sample ID: **P1467-16ADUP** SampType: **DUP** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **NOB-109-0002** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 16:00** SeqNo: **2314223**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	ND	4.4	4.4	0	0	0	0	0	0	0	20	

Sample ID: **P1467-07AMS** SampType: **MS** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **NOB-119-0002** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 12:37** SeqNo: **2313967**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	13.89	4.1	4.1	20.45	0	67.9	75	125	0			S

Sample ID: **P1467-16AMS** SampType: **MS** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **NOB-109-0002** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 16:00** SeqNo: **2314224**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	17.24	4.4	4.4	21.85	0	78.9	75	125	0			

Sample ID: **P1467-07AMSD** SampType: **MSD** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **NOB-119-0002** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 12:42** SeqNo: **2313968**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	14.77	3.9	3.9	19.70	0	75.0	75	125	13.89	6.17	35	

Sample ID: **P1467-16AMSD** SampType: **MSD** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **NOB-109-0002** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 16:00** SeqNo: **2314225**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	17.96	4.4	4.4	21.85	0	82.2	75	125	17.24	4.1	35	

Sample ID: **P1467-07AMSI** SampType: **MSi** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **NOB-119-0002** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 12:46** SeqNo: **2313969**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	272.3	41	41	329.3	0	82.7	30	150	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank
J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

CLIENT: Nobis Engineering, Inc
Work Order: P1467
Project: Barrington, RI site

ANALYTICAL QC SUMMARY REPORT

SW7196_S
SW846 7196A -- CR+ by Colorimetric Method

Sample ID: **P1467-07AMSID** SampType: **MSi** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **NOB-119-0002** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 12:51** SeqNo: **2313970**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	277.4	43	43	342.5	0	81.0	30	150	0			

Sample ID: **P1467-16AMSI** SampType: **MSi** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **NOB-109-0002** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 16:00** SeqNo: **2314226**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	287.6	44	44	351.8	0	81.7	30	150	0			

Sample ID: **P1467-16AMSID** SampType: **MSi** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **NOB-109-0002** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 16:00** SeqNo: **2314227**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	294.8	44	44	351.8	0	83.8	30	150	287.6			

Sample ID: **P1467-07APDS** SampType: **PDS** TestCode: **SW7196_S** Prep Date: **10/02/15 15:00** Run ID: **SPEC2_151005A**
Client ID: **NOB-119-0002** Batch ID: **83201** Units: **mg/Kg** Analysis Date: **10/05/15 12:55** SeqNo: **2313971**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	21.40	4.3	4.3	21.27	0	101	85	115	0			

Sample ID: **P1467-16APDS** SampType: **PDS** TestCode: **SW7196_S** Prep Date: **10/05/15 8:36** Run ID: **SPEC2_151006A**
Client ID: **NOB-109-0002** Batch ID: **83211** Units: **mg/Kg** Analysis Date: **10/06/15 17:30** SeqNo: **2314228**

Analyte	Result	MDL	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chromium, Hexavalent	21.53	4.4	4.4	21.85	0	98.5	85	115	0			

Qualifiers: ND - Not Detected at the MDL; S - Recovery outside accepted recovery limits; MDL - Method Detection Limit; B - Analyte detected in the associated Method Blank; J - Analyte detected below quanititation limits; R - RPD outside accepted recovery limits; RL - Reporting Limit

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- [x] Final Report
- [ ] Re-Issued Report
- [ ] Revised Report

Report Date:
13-Oct-15 16:44

Laboratory Report

Eurofins Spectrum Analytical, Inc.
646 Camp Ave.
North Kingstown, RI 02852
Attn: Edward Lawler

Project: Barrington, RI Site
Project #: P1467

Laboratory ID	Client Sample ID	Matrix	Date Sampled	Date Received
SC13159-01	NOB-124-0002	Soil	30-Sep-15 08:20	02-Oct-15 18:30
SC13159-02	NOB-124-0709	Soil	30-Sep-15 08:30	02-Oct-15 18:30
SC13159-03	NOB-112-0002	Soil	30-Sep-15 09:00	02-Oct-15 18:30
SC13159-04	NOB-112-1214	Soil	30-Sep-15 09:10	02-Oct-15 18:30
SC13159-05	NOB-120-0002	Soil	30-Sep-15 09:25	02-Oct-15 18:30
SC13159-06	NOB-120-0810	Soil	30-Sep-15 09:30	02-Oct-15 18:30
SC13159-07	NOB-119-0002	Soil	30-Sep-15 09:50	02-Oct-15 18:30
SC13159-08	NOB-119-0507	Soil	30-Sep-15 10:25	02-Oct-15 18:30
SC13159-09	NOB-122-0002	Soil	30-Sep-15 10:45	02-Oct-15 18:30
SC13159-10	NOB-122-1315	Soil	30-Sep-15 11:00	02-Oct-15 18:30
SC13159-11	DUP-02	Soil	30-Sep-15 10:50	02-Oct-15 18:30
SC13159-12	NOB-123-0002	Soil	30-Sep-15 11:15	02-Oct-15 18:30
SC13159-13	NOB-123-0507	Soil	30-Sep-15 11:20	02-Oct-15 18:30
SC13159-14	NOB-108-0002	Soil	30-Sep-15 11:50	02-Oct-15 18:30
SC13159-15	NOB-108-1012	Soil	30-Sep-15 11:55	02-Oct-15 18:30
SC13159-16	NOB-109-0002	Soil	30-Sep-15 12:50	02-Oct-15 18:30
SC13159-17	NOB-109-0810	Soil	30-Sep-15 13:10	02-Oct-15 18:30
SC13159-18	NOB-110-0002	Soil	30-Sep-15 13:30	02-Oct-15 18:30
SC13159-19	NOB-110-0507	Soil	30-Sep-15 13:40	02-Oct-15 18:30
SC13159-20	NOB-111-0002	Soil	30-Sep-15 14:00	02-Oct-15 18:30
SC13159-21	DUP-01	Soil	30-Sep-15 14:05	02-Oct-15 18:30
SC13159-22	NOB-111-0709	Soil	30-Sep-15 14:10	02-Oct-15 18:30

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

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00098
USDA # S-51435

Authorized by:

June O'Connor
Laboratory Director

Eurofins Spectrum Analytical holds certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.
Please note that this report contains 14 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

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

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

CASE NARRATIVE:

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

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

The samples were received 0.1 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group.

There is no relevant protocol-specific QC and/or performance standards non-conformances to report.

Sample Acceptance Check Form

Client:	Eurofins Spectrum Analytical, Inc. - RI
Project:	Barrington, RI Site / P1467
Work Order:	SC13159
Sample(s) received on:	10/2/2015

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

	Yes	No	N/A
Were custody seals present?	☐	☑	☐
Were custody seals intact?	☐	☐	☑
Were samples received at a temperature of ≤ 6°C?	☑	☐	☐
Were samples refrigerated upon transfer to laboratory representative?	☑	☐	☐
Were sample containers received intact?	☑	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☑	☐	☐
Were samples accompanied by a Chain of Custody document?	☑	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☐	☑	☐
Did sample container labels agree with Chain of Custody document?	☑	☐	☐
Were samples received within method-specific holding times?	☑	☐	☐

Summary of Hits

Lab ID: **Client ID:**

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method

No hits detected.

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

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-124-0002 SC13159-01	P1467	Soil	30-Sep-15 08:20	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	93.3		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.460	U	mg/kg dry	0.460	0.407	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-124-0709 SC13159-02	P1467	Soil	30-Sep-15 08:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	97.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.462	U	mg/kg dry	0.462	0.409	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-112-0002 SC13159-03	P1467	Soil	30-Sep-15 09:00	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	91.7		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.472	U	mg/kg dry	0.472	0.418	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-112-1214 SC13159-04	P1467	Soil	30-Sep-15 09:10	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	96.7		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.448	U	mg/kg dry	0.448	0.396	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-120-0002 SC13159-05	P1467	Soil	30-Sep-15 09:25	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	90.4		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.479	U	mg/kg dry	0.479	0.424	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-120-0810 SC13159-06	P1467	Soil	30-Sep-15 09:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	90.2		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.533	U	mg/kg dry	0.533	0.472	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-119-0002 SC13159-07	P1467	Soil	30-Sep-15 09:50	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	93.7		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.426	U	mg/kg dry	0.426	0.377	1	SW846 9012B	10-Oct-15	10-Oct-15	rlt	1519288	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-119-0507 SC13159-08	P1467	Soil	30-Sep-15 10:25	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	95.2		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.392	U	mg/kg dry	0.392	0.347	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-122-0002 SC13159-09	P1467	Soil	30-Sep-15 10:45	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	88.9		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.480	U	mg/kg dry	0.480	0.425	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-122-1315 SC13159-10	P1467	Soil	30-Sep-15 11:00	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	80.4		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.494	U	mg/kg dry	0.494	0.437	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519422	X

Sample Identification
DUP-02
SC13159-11

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 10:50	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	89.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.549	U	mg/kg dry	0.549	0.486	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-123-0002
SC13159-12

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 11:15	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	78.6		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.549	U	mg/kg dry	0.549	0.486	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-123-0507
SC13159-13

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 11:20	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	86.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.576	U	mg/kg dry	0.576	0.509	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-108-0002
SC13159-14

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 11:50	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	78.9		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.506	U	mg/kg dry	0.506	0.448	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-108-1012
SC13159-15

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 11:55	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	83.0		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.468	U	mg/kg dry	0.468	0.414	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-109-0002
SC13159-16

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 12:50	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	91.3		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518782	
57-12-5	Cyanide (total)	< 0.450	U	mg/kg dry	0.450	0.398	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-109-0810
SC13159-17

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 13:10	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	89.0		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518781	
57-12-5	Cyanide (total)	< 0.451	U	mg/kg dry	0.451	0.399	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-110-0002
SC13159-18

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 13:30	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	94.3		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518781	
57-12-5	Cyanide (total)	< 0.489	U	mg/kg dry	0.489	0.433	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-110-0507
SC13159-19

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 13:40	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	94.5		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518781	
57-12-5	Cyanide (total)	< 0.452	U	mg/kg dry	0.452	0.400	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification
NOB-111-0002
SC13159-20

Client Project #	Matrix	Collection Date/Time	Received
P1467	Soil	30-Sep-15 14:00	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	96.7		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518781	
57-12-5	Cyanide (total)	< 0.481	U	mg/kg dry	0.481	0.426	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519412	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
DUP-01 SC13159-21	P1467	Soil	30-Sep-15 14:05	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	96.4		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518781	
57-12-5	Cyanide (total)	< 0.492	U	mg/kg dry	0.492	0.436	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519422	X

Sample Identification	Client Project #	Matrix	Collection Date/Time	Received
NOB-111-0709 SC13159-22	P1467	Soil	30-Sep-15 14:10	02-Oct-15

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
General Chemistry Parameters													
	% Solids	90.1		%			1	SM2540 G Mod.	05-Oct-15	05-Oct-15	DT	1518781	
57-12-5	Cyanide (total)	< 0.549	U	mg/kg dry	0.549	0.486	1	SW846 9012B	13-Oct-15	13-Oct-15	rlt	1519422	X

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1518781 - General Preparation										
Duplicate (1518781-DUP1)			**Source: SC13159-17**			Prepared & Analyzed: 05-Oct-15				
% Solids	**89.3**		%			89.0			0.3	5
Duplicate (1518781-DUP2)			**Source: SC13159-18**			Prepared & Analyzed: 05-Oct-15				
% Solids	**94.5**		%			94.3			0.2	5
Batch 1519288 - General Preparation										
Blank (1519288-BLK1)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
Blank (1519288-BLK2)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
LCS (1519288-BS1)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**17.9**		mg/kg wet	0.500	20.0		90	90-110		
LCS (1519288-BS2)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**19.7**		mg/kg wet	0.500	20.0		98	90-110		
Calibration Blank (1519288-CCB1)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519288-CCB2)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519288-CCB3)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519288-CCB4)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519288-CCB5)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Check (1519288-CCV1)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**32.9**		mg/kg wet	0.500	30.0		110	90-110		
Calibration Check (1519288-CCV2)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**31.4**		mg/kg wet	0.500	30.0		105	90-110		
Calibration Check (1519288-CCV3)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**32.1**		mg/kg wet	0.500	30.0		107	90-110		
Calibration Check (1519288-CCV4)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**30.9**		mg/kg wet	0.500	30.0		103	90-110		
Calibration Check (1519288-CCV5)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**31.9**		mg/kg wet	0.500	30.0		106	90-110		
Duplicate (1519288-DUP1)			**Source: SC13159-07**			Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	< 0.435	U	mg/kg dry	0.435		BRL				35
Matrix Spike (1519288-MS1)			**Source: SC13159-07**			Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**7.69**		mg/kg dry	0.408	8.16	BRL	94	90-110		
Matrix Spike Dup (1519288-MSD1)			**Source: SC13159-07**			Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**7.75**		mg/kg dry	0.429	8.58	BRL	90	90-110	0.8	35
Reference (1519288-SRM1)						Prepared & Analyzed: 10-Oct-15				
Cyanide (total)	**93.6**		mg/kg wet	1.74	117		80	36.75-135		
Batch 1519412 - General Preparation										
Blank (1519412-BLK1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
Blank (1519412-BLK2)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
LCS (1519412-BS1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**20.4**		mg/kg wet	0.500	20.0		102	90-110		
LCS (1519412-BS2)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**20.9**		mg/kg wet	0.500	20.0		105	90-110		

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1519412 - General Preparation										
Calibration Blank (1519412-CCB1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519412-CCB2)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519412-CCB3)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Check (1519412-CCV1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**30.9**		mg/kg wet	0.500	30.0		103	90-110		
Calibration Check (1519412-CCV2)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**32.3**		mg/kg wet	0.500	30.0		108	90-110		
Calibration Check (1519412-CCV3)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**32.2**		mg/kg wet	0.500	30.0		107	90-110		
Duplicate (1519412-DUP1)			**Source: SC13159-16**			Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	< 0.488	U	mg/kg dry	0.488		BRL				35
Matrix Spike (1519412-MS1)			**Source: SC13159-16**			Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**10.2**		mg/kg dry	0.502	10.0	BRL	101	90-110		
Matrix Spike Dup (1519412-MSD1)			**Source: SC13159-16**			Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**9.85**		mg/kg dry	0.497	9.95	BRL	99	90-110	3	35
Reference (1519412-SRM1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**94.6**		mg/kg wet	1.42	117		81	36.75-135		
Batch 1519422 - General Preparation										
Blank (1519422-BLK1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
Blank (1519422-BLK2)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	< 0.500	U	mg/kg wet	0.500						
LCS (1519422-BS1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**20.7**		mg/kg wet	0.500	20.0		103	90-110		
LCS (1519422-BS2)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**20.8**		mg/kg wet	0.500	20.0		104	90-110		
Calibration Blank (1519422-CCB1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519422-CCB2)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519422-CCB3)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519422-CCB4)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Blank (1519422-CCB5)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**0.00**	U	mg/kg wet							
Calibration Check (1519422-CCV1)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**30.9**		mg/kg wet	0.500	30.0		103	90-110		
Calibration Check (1519422-CCV2)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**32.3**		mg/kg wet	0.500	30.0		108	90-110		
Calibration Check (1519422-CCV3)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**32.2**		mg/kg wet	0.500	30.0		107	90-110		
Calibration Check (1519422-CCV4)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**31.6**		mg/kg wet	0.500	30.0		105	90-110		
Calibration Check (1519422-CCV5)						Prepared & Analyzed: 13-Oct-15				
Cyanide (total)	**31.8**		mg/kg wet	0.500	30.0		106	90-110		
Reference (1519422-SRM1)						Prepared & Analyzed: 13-Oct-15				

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
Batch 1519422 - General Preparation										
Reference (1519422-SRM1)					Prepared & Analyzed: 13-Oct-15					
Cyanide (total)	**94.9**		mg/kg wet	1.19	117		81	36.75-135		

Notes and Definitions

U	Analyte included in the analysis, but not detected at or above the MDL.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference

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

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

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

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

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

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

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

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

Validated by:
June O'Connor
Rebecca Merz

Sc 13159

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1467
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/13/2015
FAX Due Date : 10/8/2015
Report To : Edward A Lawler
Purchase Order : P1467
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_S										
NOB-124-0002	09/30/2015 08:20	1	Soil		P1467-01B	X										13159 -01
NOB-124-0709	09/30/2015 08:30	1	Soil		P1467-02B	X										-02
NOB-112-0002	09/30/2015 09:00	1	Soil		P1467-03B	X										-03
NOB-112-1214	09/30/2015 09:10	1	Soil		P1467-04B	X										-04
NOB-120-0002	09/30/2015 09:25	1	Soil		P1467-05B	X										-05
NOB-120-0810	09/30/2015 09:30	1	Soil		P1467-06B	X										-06

1) SW9012_S, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1 | -1 | 0.1 | 01
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/2/15 11:10	Received by:	[illegible]	10/2/15 12:40
Relinquished by:	[illegible]	10/2/15 13:05	Received by:	[illegible]	10/2/15 18:30

10/02/2015
Page 1 of 4

[X] REFRIG.

SPECTRUM ANALYTICAL, INC.

CHAIN-OF-CUSTODY RECORD

SC13159

WorkOrder : P1467
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/13/2015
FAX Due Date : 10/8/2015
Report To : Edward A Lawler
Purchase Order : P1467
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_S										
NOB-119-0002	09/30/2015 09:50	3	Soil	X	P1467-07B	X										13159 -07
NOB-119-0507	09/30/2015 10:25	1	Soil		P1467-08B	X										-08
NOB-122-0002	09/30/2015 10:45	1	Soil		P1467-09B	X										-09
NOB-122-1315	09/30/2015 11:00	1	Soil		P1467-10B	X										-10
DUP-02	09/30/2015 10:50	1	Soil		P1467-11B	X										-11
NOB-123-0002	09/30/2015 11:15	1	Soil		P1467-12B	X										-12

1) SW9012_S, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1 -7 | 0.1 | 01
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/2/15 11:10	**Received by:**	David Roe	10/2/15 12:40
Relinquished by:	David Roe	10/2/15 13:15	**Received by:**	[illegible]	10/2/15 18:30

[X] REFRIG.

646 Camp Ave * North Kingstown * RI * 028524008 * 401-732-3400 * 401-732-3499
www.spectrum-analytical.com

SC 13159

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

WorkOrder : P1467
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/13/2015
FAX Due Date : 10/8/2015
Report To : Edward A Lawler
Purchase Order : P1467
EDD Types : **Please generate a Little PEL EDD**

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012_S										
NOB-123-0507	09/30/2015 11:20	1	Soil		P1467-13B	X										13159 - 13
NOB-108-0002	09/30/2015 11:50	1	Soil		P1467-14B	X										- 14
NOB-108-1012	09/30/2015 11:55	1	Soil		P1467-15B	X										- 15
NOB-109-0002	09/30/2015 12:50	3 ~~1~~	Soil 10/5/15	X	P1467-16B	X										- 16
NOB-109-0810	09/30/2015 13:10	1	Soil		P1467-17B	X										- 17
NOB-110-0002	09/30/2015 13:30	1	Soil		P1467-18B	X										- 18

1) SW9012_S, TOTAL CYANIDE

per client req run ms/msd 2 10/5/15

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1 | -1 | 0.1 | 0.1
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/02/15 11:10	**Received by:**	David Dee	10/2/15 12:40
Relinquished by:	David Dee	10/2/15 13:05	**Received by:**	[illegible]	10/2/15 18:30

10/02/2015
Page 3 of 4

[X] REFRIG.

Sc 13159

CHAIN-OF-CUSTODY RECORD

SPECTRUM ANALYTICAL, INC.

Subcontractor:
Eurofins Spectrum Analytical, Inc. - MA
11 Almgren Drive
Agawam, Massachusetts 01001

Phone: (413) 789-9018

EQuISFacilityCode: N/A

WorkOrder : P1467
Project: Barrington, RI site
Report Type : LEVEL 4
Due Date : 10/13/2015
FAX Due Date : 10/8/2015
Report To : Edward A Lawler
Purchase Order : P1467
EDD Types : **Please generate a Little PEL EDD**

= number of containers

Requested Test

Client Sample ID	Collection Date	#	Matrix	DUP/MS/MSD	Mitkem Sample ID	SW9012 S										
NOB-110-0507	09/30/2015 13:40	1	Soil		P1467-19B	X										13159 -19
NOB-111-0002	09/30/2015 14:00	1	Soil		P1467-20A	X										-20
DUP-01	09/30/2015 14:05	1	Soil		P1467-21B	X										-21
NOB-111-0709	09/30/2015 14:10	1	Soil		P1467-22B	X										-22

1) SW9012_S, TOTAL CYANIDE

Use 'Client Sample IDs' when reporting data. If needed, truncate 'Client Sample IDs' to fit on reports. Use full 'Client Sample ID' when generating EDD.

Comments:

1.1 | -1 | 0.1 | 0)
10/2/15

		Date/Time			Date/Time
Relinquished by:	Edward A Lawler	10/02/15 11:10	**Received by:**	David Dec	10/2/15 12:40
Relinquished by:	David Dec	10/2/15 13:05	**Received by:**	[illegible]	10/2/15 18:30

[X] REFRIG.

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www.spectrum-analytical.com

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-01A	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	PMoist	/					L2
P1467-01A	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-01A	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW7196_S	/					L2
P1467-01A	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW7471	/					L2
P1467-01A	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW8081_S	/					L2
P1467-01A	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW8082_S	/					L2
P1467-01A	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-01A	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-01B	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-01C	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-01D	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	GRO_S	/					VOA
P1467-01D	NOB-124-0002	09/30/2015 08:20	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-02A	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	PMoist	/					L2
P1467-02A	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-02A	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW7196_S	/					L2
P1467-02A	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW7471	/					L2
P1467-02A	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW8081_S	/					L2
P1467-02A	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW8082_S	/					L2
P1467-02A	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-02A	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-02B	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-02C	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-02D	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	GRO_S	/					VOA
P1467-02D	NOB-124-0709	09/30/2015 08:30	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-03A	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	PMoist	/					L2
P1467-03A	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-03A	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW7196_S	/					L2
P1467-03A	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW7471	/					L2
P1467-03A	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW8081_S	/					L2
P1467-03A	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW8082_S	/					L2
P1467-03A	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-03A	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-03B	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-03C	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-03D	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	GRO_S	/					VOA
P1467-03D	NOB-112-0002	09/30/2015 09:00	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-04A	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	PMoist	/					L2
P1467-04A	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-04A	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW7196_S	/					L2
P1467-04A	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW7471	/					L2
P1467-04A	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW8081_S	/					L2
P1467-04A	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW8082_S	/					L2

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HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-04A	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-04A	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-04B	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-04C	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-04D	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	GRO_S	/					VOA
P1467-04D	NOB-112-1214	09/30/2015 09:10	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-05A	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	PMoist	/					L2
P1467-05A	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-05A	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW7196_S	/					L2
P1467-05A	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW7471	/					L2
P1467-05A	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW8081_S	/					L2
P1467-05A	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW8082_S	/					L2
P1467-05A	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-05A	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-05B	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-05C	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-05D	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	GRO_S	/					VOA
P1467-05D	NOB-120-0002	09/30/2015 09:25	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-06A	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	PMoist	/					L2
P1467-06A	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-06A	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW7196_S	/					L2
P1467-06A	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW7471	/					L2
P1467-06A	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW8081_S	/					L2
P1467-06A	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW8082_S	/					L2
P1467-06A	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-06A	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-06B	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-06C	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-06D	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	GRO_S	/					VOA
P1467-06D	NOB-120-0810	09/30/2015 09:30	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-07A	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	PMoist	/			Y		L2
P1467-07A	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn			Y	Y	L2
P1467-07A	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW7196_S	/			Y		L2
P1467-07A	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW7471	/			Y		L2
P1467-07A	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW8081_S	/			Y		L2
P1467-07A	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW8082_S	/			Y		L2
P1467-07A	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW8270_S	/ Special SEL			Y	Y	L2
P1467-07A	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO			Y		L2
P1467-07B	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW9012_S	/ SPECTRUM--			Y		L2
P1467-07C	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW8260_LOW_S	/			Y	Y	VOA
P1467-07D	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	GRO_S	/			Y		VOA

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-07D	NOB-119-0002	09/30/2015 09:50	10/01/2015	Soil	SW8260_MED_S	/		Y	Y	Y	VOA
P1467-08A	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	PMoist	/					L2
P1467-08A	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-08A	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW7196_S	/					L2
P1467-08A	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW7471	/					L2
P1467-08A	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW8081_S	/					L2
P1467-08A	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW8082_S	/					L2
P1467-08A	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-08A	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-08B	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-08C	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-08D	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	GRO_S	/					VOA
P1467-08D	NOB-119-0507	09/30/2015 10:25	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-09A	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	PMoist	/					L2
P1467-09A	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-09A	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW7196_S	/					L2
P1467-09A	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW7471	/					L2
P1467-09A	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW8081_S	/					L2
P1467-09A	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW8082_S	/					L2
P1467-09A	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-09A	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-09B	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-09C	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-09D	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	GRO_S	/					VOA
P1467-09D	NOB-122-0002	09/30/2015 10:45	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-10A	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	PMoist	/					L2
P1467-10A	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-10A	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW7196_S	/					L2
P1467-10A	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW7471	/					L2
P1467-10A	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW8081_S	/					L2
P1467-10A	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW8082_S	/					L2
P1467-10A	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-10A	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-10B	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-10C	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-10D	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	GRO_S	/					VOA
P1467-10D	NOB-122-1315	09/30/2015 11:00	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-11A	DUP-02	09/30/2015 10:50	10/01/2015	Soil	PMoist	/					L2
P1467-11A	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-11A	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW7196_S	/					L2
P1467-11A	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW7471	/					L2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-11A	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW8081_S	/					L2
P1467-11A	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW8082_S	/					L2
P1467-11A	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-11A	DUP-02	09/30/2015 10:50	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-11B	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-11C	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-11D	DUP-02	09/30/2015 10:50	10/01/2015	Soil	GRO_S	/					VOA
P1467-11D	DUP-02	09/30/2015 10:50	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-12A	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	PMoist	/					L2
P1467-12A	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-12A	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW7196_S	/					L2
P1467-12A	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW7471	/					L2
P1467-12A	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW8081_S	/					L2
P1467-12A	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW8082_S	/					L2
P1467-12A	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-12A	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-12B	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-12C	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-12D	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	GRO_S	/					VOA
P1467-12D	NOB-123-0002	09/30/2015 11:15	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-13A	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	PMoist	/					L2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-13A	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-13A	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW7196_S	/					L2
P1467-13A	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW7471	/					L2
P1467-13A	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW8081_S	/					L2
P1467-13A	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW8082_S	/					L2
P1467-13A	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-13A	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-13B	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-13C	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-13D	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	GRO_S	/					VOA
P1467-13D	NOB-123-0507	09/30/2015 11:20	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-14A	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	PMoist	/					L2
P1467-14A	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-14A	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW7196_S	/					L2
P1467-14A	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW7471	/					L2
P1467-14A	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW8081_S	/					L2
P1467-14A	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW8082_S	/					L2
P1467-14A	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-14A	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-14B	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-14C	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-14D	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	GRO_S	/					VOA
P1467-14D	NOB-108-0002	09/30/2015 11:50	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-15A	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	PMoist	/					L2
P1467-15A	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-15A	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW7196_S	/					L2
P1467-15A	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW7471	/					L2
P1467-15A	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW8081_S	/					L2
P1467-15A	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW8082_S	/					L2
P1467-15A	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-15A	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-15B	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-15C	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-15D	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	GRO_S	/					VOA
P1467-15D	NOB-108-1012	09/30/2015 11:55	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-16A	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	PMoist	/			Y		L2
P1467-16A	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn			Y	Y	L2
P1467-16A	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW7196_S	/					L2
P1467-16A	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW7471	/			Y		L2
P1467-16A	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW8081_S	/			Y		L2
P1467-16A	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW8082_S	/			Y		L2
P1467-16A	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW8270_S	/ Special SEL			Y	Y	L2

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Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-16A	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO			Y		L2
P1467-16B	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-16C	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW8260_LOW_S	/			Y	Y	VOA
P1467-16D	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	GRO_S	/			Y		VOA
P1467-16D	NOB-109-0002	09/30/2015 12:50	10/01/2015	Soil	SW8260_MED_S	/		Y	Y	Y	VOA
P1467-17A	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	PMoist	/					L2
P1467-17A	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-17A	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW7196_S	/					L2
P1467-17A	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW7471	/					L2
P1467-17A	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW8081_S	/					L2
P1467-17A	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW8082_S	/					L2
P1467-17A	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-17A	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-17B	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-17C	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-17D	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	GRO_S	/					VOA
P1467-17D	NOB-109-0810	09/30/2015 13:10	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-18A	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	PMoist	/					L2
P1467-18A	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-18A	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW7196_S	/					L2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-18A	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW7471	/					L2
P1467-18A	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW8081_S	/					L2
P1467-18A	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW8082_S	/					L2
P1467-18A	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-18A	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-18B	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-18C	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-18D	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	GRO_S	/					VOA
P1467-18D	NOB-110-0002	09/30/2015 13:30	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-19A	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	PMoist	/					L2
P1467-19A	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-19A	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW7196_S	/					L2
P1467-19A	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW7471	/					L2
P1467-19A	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW8081_S	/					L2
P1467-19A	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW8082_S	/					L2
P1467-19A	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-19A	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-19B	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-19C	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-19D	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	GRO_S	/					VOA
P1467-19D	NOB-110-0507	09/30/2015 13:40	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-20A	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	PMoist	/					L2
P1467-20A	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-20A	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW7471	/					L2
P1467-20A	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW8081_S	/					L2
P1467-20A	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW8082_S	/					L2
P1467-20A	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-20A	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-20A	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-20B	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW7196_S	/					L2
P1467-20C	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-20D	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	GRO_S	/					VOA
P1467-20D	NOB-111-0002	09/30/2015 14:00	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-21A	DUP-01	09/30/2015 14:05	10/01/2015	Soil	PMoist	/					L2
P1467-21A	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-21A	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW7196_S	/					L2
P1467-21A	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW7471	/					L2
P1467-21A	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW8081_S	/					L2
P1467-21A	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW8082_S	/					L2
P1467-21A	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-21A	DUP-01	09/30/2015 14:05	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-21B	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

Eurofins Spectrum Analytical, Inc. -- ESA-RI

WorkOrder: P1467

Client ID: NOBIS
Project: Barrington, RI site
WO Name: Barrington, RI site
Location: BARRINGTON,
Comments: N/A

Case:
SDG:
PO: 15-NH-80108-002

HC Due: 10/13/15
Fax Due: 10/08/15
Fax Report: ☑

Report Level: LEVEL 4
Special Program:
EDD: EQUIIS_3_NOBIS

Lab Samp ID	Client Sample ID	Collection Date	Date Recv'd	Matrix	Test Code	Samp / Lab Test Comments	HF	HT	MS	SEL	Storage
P1467-21C	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-21D	DUP-01	09/30/2015 14:05	10/01/2015	Soil	GRO_S	/					VOA
P1467-21D	DUP-01	09/30/2015 14:05	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-22A	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	PMoist	/					L2
P1467-22A	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW6010_S	/ Sb,As,Ba,Be,Cd,Cr,Cu,Pb,Mn,Ni,Se,Ag,Tl,V, Zn				Y	L2
P1467-22A	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW7196_S	/					L2
P1467-22A	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW7471	/					L2
P1467-22A	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW8081_S	/					L2
P1467-22A	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW8082_S	/					L2
P1467-22A	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW8270_S	/ Special SEL				Y	L2
P1467-22A	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	TPH_S	/ Extractable TPH- DRO					L2
P1467-22B	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW9012_S	/ SPECTRUM--					L2
P1467-22C	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-22D	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	GRO_S	/					VOA
P1467-22D	NOB-111-0709	09/30/2015 14:10	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA
P1467-23A	TRIP BLANK-03	09/30/2015 16:00	10/01/2015	Soil	SW8260_LOW_S	/				Y	VOA
P1467-23B	TRIP BLANK-03	09/30/2015 16:00	10/01/2015	Soil	SW8260_MED_S	/		Y		Y	VOA

HF = Fraction logged in but all tests have been placed on hold

HT = Test logged in but has been placed on hold

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 3

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering, 585 Middlesex St, Lowell, MA
Telephone #: 978 683 0891
Project Mgr. T. Costa

Invoice To: Same
P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= ICE

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

List preservative code below: 11/9 | 12 | 11/12 | 12 | 12 | 12 | 12

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

P1467

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	TPH-GRO/DRO	Pest./PCB	Metals (RCI)	Hex Cr.	Cyanide	
01	NOB-124-0002	9/30/15	0820	G	SO	4	2			X	X	X	X	X	X	X	
02	NOB-124-0709	9/30/15	0830							X	X	X	X	X	X	X	
03	NOB-112-0002	9/30/15	0900							X	X	X	X	X	X	X	
04	NOB-112-1214	9/30/15	0910							X	X	X	X	X	X	X	
05	NOB-120-0002	9/30/15	0925							X	X	X	X	X	X	X	
06	NOB-120-0810	9/30/15	0930							X	X	X	X	X	X	X	
07	NOB-119-0002	9/30/15	0950			12	6			X	X	X	X	X	X	X	MS/MSD
08	NOB-119-0507	9/30/15	1025			4	2			X	X	X	X	X	X	X	
09	NOB-122-0002	9/30/15	1045							X	X	X	X	X	X	X	
10	NOB-122-1315	9/30/15	1100							X	X	X	X	X	X	X	

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	10/1/15	0945	2.5°, 3.0°
				2.0°C

☒ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Revised Feb 2013

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering, 585 Middlesex St, Lowell, MA 01851
Telephone #: 978-683-0881
Project Mgr. T. Costa

Invoice To: Same
P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Lab Id: (P1467)	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	TPH-GRO/DRO	Pest/PCB	Metals (RI)	Hex Cr.	Cyanide		
11	DUP-02	9/30/15	1050			4	2			X	X	X	X	X	X	X		
12	NOB-123-0002	9/30/15	1115			↓	↓			X	X	X	X	X	X	X		
13	NOB-123-0507	9/30/15	1120							X	X	X	X	X	X	X		
14	NOB-108-0002	9/30/15	1150							X	X	X	X	X	X	X		
15	NOB-108-1012	9/30/15	1155							X	X	X	X	X	X	X		
16	NOB-109-0002	9/30/15	1250			12	6			X	X	X	X	X	X	X		MS/MSD
17	NOB-109-0810	9/30/15	1310			4	2			X	X	X	X	X	X	X		
18	NOB-110-0002	9/30/15	1330							X	X	X	X	X	X	X		
19	NOB-110-0507	9/30/15	1340							X	X	X	X	X	X	X		
20	NOB-111-0002	9/30/15	1400							X	X	X	X	X	X	X		

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	10/1/15	0945	2.5°, 3.0°
				2.0°

☒ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

P1467

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☒ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering Inc
585 Middlesex St
Lowell, MA 01851

Telephone #: 978-683-0591
Project Mgr. T. Costa

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= Ice

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

P1467

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCs	SVOCs	TPH-GRO-DRO	Pest./PCB	Metals (RI)	Hex. Cr.	Cyanide	
						Containers:				Analyses:							
										List preservative code below:							
										11/9	12	11/12	12	12	12	12	
21	Dup-01	9/30/15	1405	~~S~~G	SO	4	2			X	X	X	X	X	X	X	
22	NOB-111-0709	9/30/15	1410	G	SO	4	2			X	X	X	X	X	X	X	
23	Trip Blank-03	9/30/15	1600	G	SO	3	—			X							Trip Blank

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	10/1/15	0945	2.5°-3.0°
				2.0°C

☒ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

Revised Feb 2013

Eurofins Spectrum Analytical, Inc. -- ESA-RI

Received By: WJL	Page 01 of 01
Reviewed By: KP	Log-in Date 10/01/2015
Work Order: P1467	Client Name: Nobis Engineering, Inc
Project Name/Event: Barrington, RI site	

Remarks: (1/2) Please see associated sample/extract transfer logbook pages submitted with this data package.

1. Custody Seal(s) — Present / Absent
   Intact / Broken
2. Custody Seal Nos. — N/A
3. Traffic Reports/ Chain of Custody Records (TR/COCs) or Packing Lists — Present / Absent
4. Airbill — AirBill / Sticker
   Present / Absent
5. Airbill No. — Drop Off N/A
6. Sample Tags — Present / Absent
   Sample Tag Numbers — Listed / Not Listed on Chain-of-Custody
7. Sample Condition — Intact / Broken / Leaking
8. Cooler Temperature Indicator Bottle — Present / Absent
9. Cooler Temperature — 3.0 °C
10. Does information on TR/COCs and sample tags agree? — Yes / No
11. Date Received at Laboratory — 10/01/2015
12. Time Received — 09:45

Sample Transfer	
Fraction (1) TVOA/VOA	Fraction (2) SVOA/PEST/ARO
Area #	Area #
By	By
On	On

Lab Sample ID	Preservation (pH) HNO3	H2SO4	HCl	NaOH	H3PO4	VOA Matrix	Soil HeadSpace or Air Bubble > or equal to 1/4"
P1467-01						F/M	
P1467-02						F/M	
P1467-03						F/M	
P1467-04						F/M	
P1467-05						F/M	
P1467-06						F/M	
P1467-07						F/M	
P1467-08						F/M	
P1467-09						F/M	
P1467-10						F/M	
P1467-11						F/M	
P1467-12						F/M	
P1467-13						F/M	
P1467-14						F/M	
P1467-15						F/M	
P1467-16						F/M	
P1467-17						F/M	
P1467-18						F/M	
P1467-19						F/M	
P1467-20						F/M	
P1467-21						F/M	
P1467-22						F/M	
P1467-23						F/M	

IR Temp Gun ID:MT-74

CoolantCondition: ICE

Preservative Name/Lot No:

VOA Matrix Key:

US = Unpreserved Soil	A= Air
UA = Unpreserved Aqueous	H = HCl
M = MeOH	E = Encore
N = NaHSO4	F = Freeze

See Sample Condition Notification/Corrective Action Form Yes / No

Rad OK Yes / No

Last Page of Data Report

APPENDIX D

Nobis
Engineering a Sustainable Future

October 16, 2015
Nobis File No. 80108

Mr. James Byrne
EPA-New England Region I
5 Post Office Square
Suite 100, Mailcode OSRR07-4
Boston, MA 02109-3912

Re: Contract No.: EP-S1-06-03
Task Order No. 0108-SI-BZ-0100
Case No. 0153S, Laboratory Report Nos.: P1453, P1454, P1456, P1457, P1465, P1467
Eurofins Spectrum Analytical, North Kingstown, Rhode Island
Palmer Pointe Site
Barrington, Rhode Island

Tier 1 Modified Organic and Inorganic Data Review

VOCs, SVOCs, Pesticides, PCBs, GRO, ETPH, Metals, Hexavalent Chromium, and Cyanide:

P1453: 12/Soil Samples: NOB-101-0002, NOB-101-0810, NOB-115-0002, NOB-115-1012, NOB-114-0002, NOB-114-0810, NOB-116-0002, NOB-116-1113, NOB-117-0002, NOB-117-0507, NOB-118-0002, and NOB-118-1012
1/Trip Blank (VOC only): Trip Blank-02

P1456: 17/Soil Samples: NOB-105-0002, NOB-105-0709, NOB-104-0002, NOB-104-0709, NOB-103-0002, NOB-103-1315, NOB-102-0002, NOB-102-0709, NOB-113-0002, NOB-113-1214, NOB-121-0002, NOB-121-1214, NOB-106-0002, NOB-106-1214, NOB-107-0002, NOB-107-1416, and FD-03
1/Field Duplicate: (NOB-106-0002/FD-03)
1/Trip Blank (VOC only): Trip Blank-01

P1467: 22/Soil Samples: NOB-124-0002, NOB-124-0709, NOB-112-0002, NOB-112-1214, NOB-120-0002, NOB-120-0810, NOB-119-0002, NOB-119-0507, NOB-122-0002, NOB-122-1315, NOB-123-0002, NOB-123-0507, NOB-108-0002, NOB-108-1012, NOB-109-0002, NOB-109-0812, NOB-110-0002, NOB-110-0507, NOB-111-0002, NOB-111-07-9, and DUP-02, DUP-01
2/Field Duplicates: (NOB-111-0002/DUP-01); (NOB-122-0002/DUP-02
1/Trip Blank (VOC only): Trip Blank-03

VOCs, SVOCs, Pesticides, PCBs, TPH-GRO, TPH-DRO, Metals (T/D), EDB/DBCP, and Cyanide:

P1454: 1/GW Sample: WELL-2
1/Trip Blank (VOC only): Trip Blank-2

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P1457: 2/GW Samples: WELL-1 and DUP-01-GW
1/Field Duplicate: (WELL-1/DUP-01-GW)
1/Trip Blank (VOC only): Trip Blank-1

P1465: 3/GW Samples: NOB-113-GW, NOB-121-GW, and NOB-105-GW
1/Trip Blank (VOC only): Trip Blank-3

Dear Mr. Byrne:

Nobis Engineering, Inc. performed a Tier 1 Modified data review on the organic and inorganic analytical data for the samples listed above. The samples were collected by Nobis at the Palmer Pointe Site located in Barrington, Rhode Island. The samples were analyzed for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides, polychlorinated biphenyls (PCBs), gasoline range organics (GRO), extractable total petroleum hydrocarbons (ETPH), metals, hexavalent chromium, and cyanide as indicated above. Additionally, water samples were analyzed for ethylene dibromide (EDB) and dibromochloropropane (DBCP) using a low level method. The laboratory performed testing according to EPA SW-846 Methods and to Nobis technical specification RAC2-083.

The Tier Modified data review was performed in accordance with the EPA New England Environmental Data Review Supplement for Regional Data Review Elements and Superfund Specific Guidance/Procedures (April 2013); USEPA National Functional Guidelines for Inorganic Superfund Data Review (August 2014); USEPA National Functional Guidelines for Superfund Organic Methods Data Review (August 2014) and the Field Task Work Plan (FTWP) and Quality Assurance Project Plan (QAPP) for the Targeted Brownfields Assessment (TBA) for the Palmer Pointe Site (September 2015).

The data were evaluated based on the following parameters:

*	•	Overall Evaluation of Data and Potential Usability Issues
*	•	Data Completeness
*	•	Preservation and Technical Holding Times
	•	Blanks
	•	Laboratory Control Samples (LCS)
	•	Laboratory Duplicates
	•	Field Duplicates
	•	Matrix Spike Analysis
*	•	Surrogate Compounds
NA	•	Performance Evaluation Sample Results
*	•	Reported Quantitation Limits

* All criteria were met for this parameter.
NA – Not applicable.

Overall Evaluation of Data and Potential Usability Issues

The objectives of the investigation activities at the site are to assess the extent of contaminant impact to soil and groundwater. Soil and groundwater data will be compared to RIDEM Standards to evaluate the potential risk of contaminants to human health and the environment

The data meet the project quality criteria and can be used without restriction except as summarized below. The attachments provide details and supporting documentation.

VOCs:
Results were qualified for matrix spike recovery exceedances and trip blank contamination.

SVOCs:
Results were qualified for laboratory control sample recovery and matrix spike recovery exceedances.

Pesticides and PCBs:
Pesticide results were qualified for matrix spike recovery exceedances and concentration differences between two columns exceeded 40 percent. Two endrin aldehyde results were rejected due to very low matrix spike recoveries in samples NOB-119-0002 and NOB-109-0002, indicating matrix interference.

GRO and ETPH:
ETPH results were qualified for matrix spike recovery exceedances.

Metals and Cyanide:
Metals results were qualified for laboratory blank contamination, matrix spike recovery exceedances, serial dilution criteria failures, laboratory duplicate and field duplicate imprecision. Hexavalent chromium results were qualified due to matrix spike recovery exceedances.

Please contact Gail DeRuzzo at (978) 703-6021 or gderuzzo@nobiseng.com should you have any questions or comments regarding this information.

Sincerely,

NOBIS ENGINEERING, INC.

Gail DeRuzzo
Lead Chemist

Tables: Data Summary Tables – Tier 1 Mod Data Review
Data Qualification Actions Table

Attachments: Data Review Checklist
COCs

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-101-00002		NOB-101-0810		NOB-115-0002		NOB-115-1012		NOB-114-0002		NOB-114-0810		NOB-116-0002		NOB-116-1113		NOB-117-0002	
					Laboraory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***5.0***	***U***	***3.3***	***U***	***4.4***	***U***	***3.9***	***U***	***3.4***	***U***	***4.6***	***U***	***3.4***	***U***	***3.8***	***U***	***3.6***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-101-00002		NOB-101-0810		NOB-115-0002		NOB-115-1012		NOB-114-0002		NOB-114-0810		NOB-116-0002		NOB-116-1113		NOB-117-0002	
					Laboraory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	10	U	6.7	U	8.9	U	7.7	U	6.9	U	9.1	U	6.8	U	7.5	U	7.3	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	5.0	U	3.3	U	4.4	U	3.9	U	3.4	U	4.6	U	3.4	U	3.8	U	3.6	U
Semivolatile Organic Compounds																							
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	360	U	370	U	75	J	370	U	350	U	340	U	120	J	370	U	370	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	360	U	370	U	370	U	370	U	350	U	340	U	110	J	370	U	370	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-101-00002		NOB-101-0810		NOB-115-0002		NOB-115-1012		NOB-114-0002		NOB-114-0810		NOB-116-0002		NOB-116-1113		NOB-117-0002	
					Laboraory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	92	J	370	U	94	J	370	U	350	U	340	U	160	J	370	U	370	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	150	J	750	U	750	U	760	U	720	U	690	U	750	U	740	U	100	J
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	86	J	370	U	110	J	370	U	350	U	340	U	140	J	370	U	370	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	170	J	130	J	120	J	190	J	130	J	340	U	370	U	110	J	140	J
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	120	J	370	U	160	J	370	U	350	U	340	U	190	J	370	U	77	J
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	730	U	750	U	750	U	760	U	720	U	690	U	750	U	740	U	760	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	360	U	370	U	160	J	370	U	350	U	340	U	370	U	370	U	370	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	360	U	370	U	370	U	370	U	350	U	340	U	370	U	370	U	370	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	120	J	370	U	190	J	370	U	350	U	340	U	200	J	370	U	76	J
Pesticides/PCBs																							
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	3.4	J	3.7	U	18		3.7	U	2.0	J	3.5	U	3.7	U	3.7	U	3.8	U
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	16		3.7	U	46		3.7	U	16		3.5	U	7.5		3.7	U	4.4	
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	6.8		3.7	U	15		3.7	U	4.0		3.5	U	2.8	J	3.7	U	2.7	J
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	2.8	J	1.9	U	15		1.9	U	2.0	J	1.8	U	1.9	U	1.9	U	1.9	U
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	1.0	J	1.9	U	3.8	U	1.9	U	1.0	J	1.8	U	1.9	U	1.9	U	1.9	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	3.5	U	3.7	U	7.4	U	3.7	U	3.6	U	3.5	U	3.7	U	3.7	U	3.8	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	1.0	J	1.9	U	3.9		1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

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Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-101-00002		NOB-101-0810		NOB-115-0002		NOB-115-1012		NOB-114-0002		NOB-114-0810		NOB-116-0002		NOB-116-1113		NOB-117-0002	
					Laboraory ID	P1453-01D		P1453-02D		P1453-03D		P1453-04D		P1453-05D		P1453-06D		P1453-07D		P1453-08D		P1453-09D	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/29/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	1.8	U	1.9	U	3.8	U	1.9	U	1.9	U	1.8	U	1.9	U	1.9	U	1.9	U
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	18	U	19	U	38	U	19	U	19	U	18	U	19	U	19	U	19	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	180	U	190	U	380	U	190	U	190	U	180	U	190	U	190	U	190	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	35	U	37	U	37	U	37	U	36	U	35	U	37	U	37	U	38	U
Total Petroleum Hydrocarbons																							
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2800	U	2400	U	1800	U	2100	U	2000	U	2200	U	2100	U	2500	U	2900	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C3(	mg/Kg	NE	NE	22		28		7.8	U	10		9.9		7.4	U	33		7.7	U	15	
Metals and Cyanide																							
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.59	J	1.4	J	0.57	J	1.2	J	0.77	J	1.6	J	0.59	J	1.3	J	0.82	J
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	6.6		**7.5**		**7.4**		**9.5**		**9.4**		**11**		6.8		**9.0**		**12**	
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	14	J	38	J	16	J	16	J	20	J	25	J	45	J	17	J	43	J
Beryllium	7440-41-7	SW6010	mg/Kg	0.4	NE	0.28		0.27		0.36		0.33		**0.44**		**0.41**		**0.41**		0.34		**0.52**	
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.054	J	0.24	U	0.064	J	0.26	U	0.077	J	0.14	J	0.11	J	0.029	J	0.70	
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	4.7		8.7		5.7		9.7		6.3		17		9.0		9.8		7.5	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	8.7		16		13		30		11		51		11		25		15	
Lead	7439-92-1	SW6010	mg/Kg	150	NE	24		11		25		30		35		20		86		10		92	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	130		150		160		**500**		100		**2500**		100		310		160	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	4.2		8.2		4.7		19		4.3		27		3.7		16		5.8	
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	1.4	U	0.62	J	1.3	U	1.6	U	1.1	U	1.2	J	1.4	U	1.4	U	0.64	J
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.4	U	1.4	U	1.3	U	1.6	U	1.1	U	1.4	U	1.4	U	1.4	U	1.3	U
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	0.85	J	1.4		1.1		0.91	J	1.2		0.94	U	0.84	J	1.1		1.6	
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	8.6		8.6		11		9.3		14		11		12		9.1		15	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	22		25		32		51		24		63		39		42		160	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.3	U	4.5	U	4.5	U	4.5	U	4.4	U	4.2	U	4.5	U	4.4	U	4.6	U
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.098		0.0033	J	0.071		0.041	U	0.14		0.039	U	0.082		0.038	U	0.092	
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.474	U	0.471	U	0.559	U	0.432	U	0.498	U	0.504	U	0.537	U	0.533	U	0.555	U

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure Criteria.

[2] RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA Leachability Criteria.

BOLD - Reporting Limit exceeds Table 1 Regulatory Limit

Bold /Shaded - Result exceeds Table 1 Regulatory Limit

BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit

Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-117-0507		NOB-118-0002		NOB-118-1012		TRIP BLANK-02		NOB-105 0709		NOB-104 0002		NOB-104 0709		NOB-103 0002		NOB-103 1315	
					Laboraory ID	P1453-10D		P1453-11D		P1453-12D		P1453-13A		P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***3.3***	***U***	***3.7***	***U***	***3.0***	***U***	***5.0***	***U***	***3.9***	***U***	***4.1***	***U***	***3.7***	***U***	***3.4***	***U***	***3.9***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	3.3	U	3.7	U	4.6		5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	3.3	U	3.7	U	3.0	U	17		3.9	U	4.1	U	3.7	U	3.6		3.9	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-117-0507		NOB-118-0002		NOB-118-1012		TRIP BLANK-02		NOB-105 0709		NOB-104 0002		NOB-104 0709		NOB-103 0002		NOB-103 1315	
					Laboraory ID	P1453-10D		P1453-11D		P1453-12D		P1453-13A		P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	6.7	U	7.3	U	5.9	U	10	U	7.8	U	8.2	U	7.3	U	6.9	U	7.9	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	UJ	3.9	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	3.3	U	3.7	U	3.0	U	5.0	U	3.9	U	4.1	U	3.7	U	3.4	U	3.9	U
Semivolatile Organic Compounds																							
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	350	U	340	U	350	U			360	U	**440**	U	330	U	340	U	**420**	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-117-0507		NOB-118-0002		NOB-118-1012		TRIP BLANK-02		NOB-105 0709		NOB-104 0002		NOB-104 0709		NOB-103 0002		NOB-103 1315	
					Laboraory ID	P1453-10D		P1453-11D		P1453-12D		P1453-13A		P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	350	U	340	U	350	U			360	U	**440**	U	330	U	340	U	**420**	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	350	U	340	U	350	U			360	U	**440**	U	330	U	340	U	**420**	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	84	J	130	J	170	J			200	J	160	J	140	J	130	J	100	J
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	350	U	340	U	350	U			360	U	**440**	U	330	U	340	U	**420**	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	720	U	690	U	720	U			740	U	900	U	670	U	680	U	850	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	350	U	340	U	350	U			360	U	440	U	330	U	340	U	420	U
Pesticides/PCBs																							
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	3.5	U	110		14				3.8	U	4.4	U	3.4	U	3.5	U	4.3	U
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	3.5	U	39		3.6	J			3.8	U	37		3.4	U	12		4.3	U
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	3.5	U	35	U	7.1	U			3.8	U	31		3.4	U	8.9		4.3	U
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	1.8	U	18	U	3.7	U			1.9	U	2.3	U	1.7	U	1.8	U	2.2	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	1.8	U	18	U	3.7	U			1.9	U	2.3	U	1.7	U	1.8	U	2.2	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	1.8	U	270		37				1.9	U	8.6		1.7	U	2.7		2.2	U
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	1.8	U	18	U	3.7	U			1.9	U	1.4	J	1.7	U	1.0	J	2.2	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	1.8	U	18	U	3.7	U			1.9	U	2.3	U	1.7	U	1.8	U	2.2	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	3.5	U	**150**		19				3.8	U	4.4	U	3.4	U	3.5	U	4.3	U
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	1.8	U	18	U	3.7	U			1.9	U	2.3	U	1.7	U	1.8	U	2.2	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	3.5	U	35	U	7.1	U			3.8	U	4.4	U	3.4	U	3.5	U	4.3	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	3.5	U	35	U	7.1	U			3.8	U	4.4	U	3.4	U	3.5	U	4.3	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	3.5	U	35	U	7.1	U			3.8	U	5.2		3.4	U	3.5	U	4.3	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	3.5	U	35	U	7.1	U			3.8	U	4.4	U	3.4	U	3.5	U	4.3	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	3.5	U	35	U	7.1	U			3.8	U	4.4	U	3.4	U	3.5	U	4.3	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	1.8	U	18	U	3.7	U			1.9	U	2.3	U	1.7	U	1.8	U	2.2	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	1.8	U	160		20				1.9	U	4.8		1.7	U	2.2		2.2	U
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	1.8	U	18	U	3.7	U			1.9	U	2.3	U	1.7	U	1.8	U	2.2	U

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DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-117-0507		NOB-118-0002		NOB-118-1012		TRIP BLANK-02		NOB-105 0709		NOB-104 0002		NOB-104 0709		NOB-103 0002		NOB-103 1315	
					Laboraory ID	P1453-10D		P1453-11D		P1453-12D		P1453-13A		P1456-01D		P1456-02D		P1456-03D		P1456-04D		P1456-05D	
					Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	1.8	U	43		4.2				1.9	U	1.2	J	1.7	U	1.8	U	2.2	U
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	18	U	180	U	37	U			19	U	23	U	17	U	18	U	22	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	180	U	1800	U	370	U			190	U	230	U	170	U	180	U	220	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U			37	U	44	U	34	U	35	U	43	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U			37	U	44	U	34	U	35	U	43	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U			37	U	44	U	34	U	35	U	43	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U			37	U	44	U	34	U	35	U	43	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U			37	U	44	U	34	U	35	U	43	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U			37	U	44	U	34	U	35	U	43	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U			37	U	44	U	34	U	35	U	43	U
Total Petroleum Hydrocarbons																							
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2400	U	2000	U	2700	U			2400	U	3100	U	2300	U	2100	U	3100	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C3(	mg/Kg	NE	NE	8.5		26		12				20		22		11		13		13	
Metals and Cyanide																							
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.76	J	0.94	J	0.87	J			1.4	J	0.68	J	0.59	J	0.78	J	1.7	J
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	5.9		**9.4**		**7.0**				**11**		5.5		3.7		4.9		**8.7**	
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	14	J	28	J	26	J			21	J	12	J	10	J	11	J	44	J
Beryllium	7440-41-7	SW6010	mg/Kg	0.4	NE	0.33		**0.53**		**0.42**				0.22	J	**0.40**		0.26		0.35		**0.71**	
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.079	J	0.12	J	0.031	J			0.26	U	0.23	U	0.23	U	0.26	U	0.27	U
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	5.6		7.4		14				11		5.4		3.3		5.1		12	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	8.3		12		13				14		5.1		5.2		6.9		14	
Lead	7439-92-1	SW6010	mg/Kg	150	NE	6.6		36		13				18		11		4.0		7.8		9.8	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	300		180		310				170		98		120		190		330	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	8.5		5.1		9.8				14	J	4.5	J	4.6	J	6.5	J	12	J
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	1.5	U	1.5	U	1.4	U			1.6	U	1.4	U	1.4	U	1.6	U	0.70	J
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.5	U	1.5	U	1.4	U			1.6	U	1.4	U	1.4	U	1.6	U	1.6	U
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	0.73	J	1.6		1.3				0.98	J	1.4		0.52	J	0.96	J	1.9	
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	8.4		15		11				8.4		12		4.6		8.2		18	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	62		28		28				31		16		14		18		35	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.3	U	4.2	U	4.3	U			4.6	UJ	5.4	UJ	4.1	UJ	4.2	UJ	5.2	UJ
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.0063	J	0.056		0.013	J			0.0030	J	0.023	J	0.039	U	0.013	J	0.0034	J
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.524	U	0.479	U	0.513	U			0.517	U	0.557	U	0.593	U	0.532	U	0.575	U

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure Criteria.

[2] RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA Leachability Criteria.

BOLD - Reporting Limit exceeds Table 1 Regulatory Limit

Bold /Shaded - Result exceeds Table 1 Regulatory Limit

BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit

Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-102 0002		NOB-102 0709		TRIP BLANK		NOB-113 0002		NOB-113 1214		NOB-121 0002		NOB-121 1214		NOB-106 0002		NOB-106 1214	
					Laboraory ID	P1456-06D		P1456-07D		P1456-08A		P1456-09D		P1456-10D		P1456-11D		P1456-12D		P1456-13D		P1456-14D	
					Sample Collection Date	09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***5.6***	***U***	***3.7***	***U***	***5.0***	***U***	***4.2***	***U***	***3.5***	***U***	***3.8***	***U***	***4.2***	***U***	***4.0***	***U***	***4.7***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	3.9	J	4.0	U	4.7	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-102 0002		NOB-102 0709		TRIP BLANK		NOB-113 0002		NOB-113 1214		NOB-121 0002		NOB-121 1214		NOB-106 0002		NOB-106 1214	
					Laboraory ID	P1456-06D		P1456-07D		P1456-08A		P1456-09D		P1456-10D		P1456-11D		P1456-12D		P1456-13D		P1456-14D	
					Sample Collection Date	09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	11	U	7.5	U	10	U	8.4	U	7.0	U	7.5	U	8.4	U	8.0	U	9.4	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	5.6	U	3.7	U	5.0	U	4.2	U	3.5	U	3.8	U	4.2	U	4.0	U	4.7	U
Semivolatile Organic Compounds																							
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-102 0002		NOB-102 0709		TRIP BLANK		NOB-113 0002		NOB-113 1214		NOB-121 0002		NOB-121 1214		NOB-106 0002		NOB-106 1214	
					Laboraory ID	P1456-06D		P1456-07D		P1456-08A		P1456-09D		P1456-10D		P1456-11D		P1456-12D		P1456-13D		P1456-14D	
					Sample Collection Date	09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	140	J	110	J			130	J	140	J	190	J	190	J	180	J	180	J
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	820	U	710	U			760	U	700	U	750	U	820	U	730	U	790	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	400	U	350	U			370	U	340	U	370	U	400	U	360	U	390	U
Pesticides/PCBs																							
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	4.2	U	3.6	U			4.9		3.5	U	62		4.0	U	3.6	U	3.9	U
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	14		3.6	U			16		3.5	U	22	J	4.0	U	15		3.9	U
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	16		3.6	U			11		3.5	U	37	U	4.0	U	12		3.9	U
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	2.1	U	1.9	U			1.9	U	1.8	U	19	U	2.1	U	1.8	U	2.0	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	2.1	U	1.9	U			1.9	U	1.8	U	19	U	2.1	U	1.8	U	2.0	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	3.2		1.9	U			3.6		1.8	U	130	J	4.7		4.7		2.0	U
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	2.1	U	1.9	U			1.9	U	1.8	U	19	U	2.1	U	1.8	U	2.0	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	2.1	U	1.9	U			1.4	J	1.8	U	19	U	2.1	U	1.8	U	2.0	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	4.2	U	3.6	U			2.0	J	3.5	U	**97**		3.5	J	3.6	U	3.9	U
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	2.1	U	1.9	U			1.9	U	1.8	U	19	U	2.1	U	1.8	U	2.0	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	4.2	U	3.6	U			3.7	U	3.5	U	37	U	4.0	U	3.6	U	3.9	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	4.2	U	3.6	U			3.7	U	3.5	U	37	U	4.0	U	3.6	U	3.9	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	2.1	J	3.6	U			3.7	U	3.5	U	37	U	4.0	U	2.3	J	3.9	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	4.2	U	3.6	U			3.7	U	3.5	U	37	U	4.0	U	3.6	U	3.9	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	4.2	U	3.6	U			3.7	U	3.5	U	37	U	4.0	U	3.6	U	3.9	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	2.1	U	1.9	U			1.9	U	1.8	U	19	U	2.1	U	1.8	U	2.0	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	1.9	J	1.9	U			2.1		1.8	U	85		4.3		3.4		2.0	U
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	2.1	U	1.9	U			1.9	U	1.8	U	19	U	2.1	U	1.8	U	2.0	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-102 0002		NOB-102 0709		TRIP BLANK		NOB-113 0002		NOB-113 1214		NOB-121 0002		NOB-121 1214		NOB-106 0002		NOB-106 1214	
					Laboraory ID	P1456-06D		P1456-07D		P1456-08A		P1456-09D		P1456-10D		P1456-11D		P1456-12D		P1456-13D		P1456-14D	
					Sample Collection Date	09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/28/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	2.1	U	1.9	U			1.9	U	1.8	U	15	J	2.1	U	1.8	U	2.0	U
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	21	U	19	U			19	U	18	U	190	U	21	U	18	U	20	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	210	U	190	U			190	U	180	U	1900	U	210	U	180	U	200	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	41	U	35	U			37	U	35	U	37	U	40	U	36	U	39	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	41	U	35	U			37	U	35	U	37	U	40	U	36	U	39	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	41	U	35	U			37	U	35	U	37	U	40	U	36	U	39	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	41	U	35	U			37	U	35	U	37	U	40	U	36	U	39	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	41	U	35	U			37	U	35	U	37	U	40	U	36	U	39	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	41	U	35	U			37	U	35	U	37	U	40	U	36	U	39	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	41	U	35	U			37	U	35	U	37	U	40	U	36	U	39	U
Total Petroleum Hydrocarbons																							
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2800	U	2000	U			2600	U	2000	U	2000	U	2800	U	2100	U	2300	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C3(	mg/Kg	NE	NE	20		12				35		15		19		14		17		21	
Metals and Cyanide																							
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.77	J	1.1	J			0.83	J	2.2	J	0.87	J	1.0	J	0.69	J	1.5	J
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	**8.2**		6.6				**11**		**13**		**7.5**		6.7		5.2		**11**	
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	15	J	20	J			20	J	20	J	19	J	18	J	9.6	J	15	J
Beryllium	7440-41-7	SW6010	mg/Kg	0.4	NE	**0.40**		0.38				**0.47**		0.32		**0.44**		0.20	J	0.29		0.26	
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.023	J	0.23	U			0.036	J	0.14	J	0.074	J	0.22	U	0.24	U	0.017	J
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	5.9		6.0				6.4		13		6.9		9.7		5.0		12	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	9.3		12				9.0		30		9.0		12		7.4		27	
Lead	7439-92-1	SW6010	mg/Kg	150	NE	13		6.9				35		15		16		9.3		7.5		15	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	280		210				120		**450**		170		160		140		220	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	7.4	J	8.3	J			5.2	J	35	J	6.6	J	9.6	J	5.7	J	18	J
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	1.3	U	1.4	U			1.6	U	1.5	U	0.59	J	1.3	U	1.5	U	1.5	U
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.3	U	1.4	U			1.6	U	1.5	U	1.2	U	1.3	U	1.5	U	1.5	U
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	1.1		1.1				1.4		1.3		1.3		0.67	J	0.66	J	0.88	J
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	11		8.0				13		11		12		6.6		8.0		9.2	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	23		25				24		72		26		25		17		44	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	5.1	UJ	4.4	UJ			4.5	UJ	4.3	UJ	4.2	UJ	4.9	UJ	4.3	UJ	4.5	UJ
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.020	J	0.041	U			0.12		0.0031	J	0.030	J	0.0039	J	0.015	J	0.041	U
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.525	U	0.535	U			0.550	U	0.522	U	0.575	U	0.528	U	0.596	U	0.437	U

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure Criteria.

[2] RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA Leachability Criteria.

BOLD - Reporting Limit exceeds Table 1 Regulatory Limit

Bold /Shaded - Result exceeds Table 1 Regulatory Limit

BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit

Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	FD-03		NOB-107 0002		NOB-107 1416		NOB-105 0002		NOB-124-0002		NOB-124-0709		NOB-112-0002		NOB-112-1214		NOB-120-0002	
					Laboraory ID	P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	CAS #	Method	Report Units	RIDEM Residential Direct Exposure Criteria[1]	RIDEM GA Leachability Criteria[2]																		
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***3.7***	***U***	***4.0***	***U***	***4.3***	***U***	***4.5***	***U***	***3.7***	***U***	***3.3***	***U***	***4.0***	***U***	***4.4***	***U***	***4.1***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	3.0	J	4.1	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	FD-03		NOB-107 0002		NOB-107 1416		NOB-105 0002		NOB-124-0002		NOB-124-0709		NOB-112-0002		NOB-112-1214		NOB-120-0002	
					Laboraory ID	P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	7.5	U	7.9	U	8.6	U	9.1	U	7.5	U	6.5	U	8.1	U	8.8	U	8.1	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	3.7	U	4.0	U	4.3	U	4.5	U	3.7	U	3.3	U	4.0	U	4.4	U	4.1	U
Semivolatile Organic Compounds																							
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	FD-03		NOB-107 0002		NOB-107 1416		NOB-105 0002		NOB-124-0002		NOB-124-0709		NOB-112-0002		NOB-112-1214		NOB-120-0002	
					Laboraory ID	P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	720	U	720	U	730	U	740	U	710	U	670	U	180	J	680	U	740	U
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	360	U	360	U	74	J	370	U	350	U	330	U	370	U	340	U	360	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	100	J	200	J	110	J	140	J	280	J	390		310	J	530		250	J
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	720	U	720	U	730	U	740	U	710	U	670	U	740	U	680	U	740	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	360	U	360	U	360	U	370	U	350	U	330	U	370	U	340	U	360	U
Pesticides/PCBs																							
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	14		52		3.6	U	33		3.6	U	3.4	U	8.3		3.4	U	3.7	U
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	10		37		3.6	U	30		3.6	U	3.4	U	4.6		3.4	U	3.7	U
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	4.7		12		1.9	U	7.5		1.8	U	1.8	U	1.9	U	1.8	U	3.0	J
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	1.8	U	1.8	U	1.9	U	1.2	J	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.2	J	1.8	U	1.9	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	5.8	
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	2.6	J	7.4		3.6	U	4.4		3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	3.6	U	3.6	U	3.6	U	3.7	U	3.6	U	3.4	U	3.6	U	3.4	U	3.7	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	3.9		8.3		1.9	U	5.7		1.8	U	1.8	U	1.9	U	1.8	U	1.7	J
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	1.8	U	1.8	U	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	FD-03		NOB-107 0002		NOB-107 1416		NOB-105 0002		NOB-124-0002		NOB-124-0709		NOB-112-0002		NOB-112-1214		NOB-120-0002	
					Laboraory ID	P1456-15D		P1456-16D		P1456-17D		P1456-18D		P1467-01D		P1467-02D		P1467-03D		P1467-04D		P1467-05D	
					Sample Collection Date	09/28/2015		09/28/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	1.8	U	1.2	J	1.9	U	1.9	U	1.8	U	1.8	U	1.9	U	1.8	U	1.9	U
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	18	U	18	U	19	U	19	U	18	U	18	U	19	U	18	U	19	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	180	U	180	U	190	U	190	U	180	U	180	U	190	U	180	U	190	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	35	U	35	U	36	U	37	U	36	U	34	U	36	U	34	U	37	U
Total Petroleum Hydrocarbons																							
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2200	U	2100	U	2500	U	2900	U	1900	U	1900	U	2300	U	2300	U	2300	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C3	mg/Kg	NE	NE	25		27		12		24		7.5	U	7.2	U	9.4		7.5		7.8	U
Metals and Cyanide																							
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.57	J	0.72	J	2.0	J	0.79	J	0.90	U	0.89	U	1.1	U	0.77	U	0.83	U
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	5.9		**7.1**		**11**		6.2		0.90	U	5.1		**9.5**		**8.0**		6.3	
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	9.3	J	15	J	9.3	J	11	J	13	J	25	J	19		15		14	
Beryllium	7440-41-7	SW6010	mg/Kg	0.4	NE	0.32		0.39		**0.44**		0.33		0.16	J	**0.49**		**0.45**		0.26		**0.42**	
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.24	U	0.025	J	0.28		0.24	U	0.026	J	0.22	U	0.27	U	0.19	U	0.21	U
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	5.1		6.0		22		5.9		2.6		8.6		8.3		7.2		7.7	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	6.8		9.2		49		7.0		6.4		15		19		23		12	
Lead	7439-92-1	SW6010	mg/Kg	150	NE	8.6		19		38		9.5		5.2		9.0		24		7.5		8.4	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	120		150		310		160		83		**400**		160		320		250	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	5.6	J	6.0	J	37	J	5.5	J	3.5		13		8.1		12		11	
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	1.5	U	1.3	U	1.4	U	1.4	U	4.0		1.3	U	1.6	U	1.1	U	1.2	U
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.5	U	1.3	U	1.4	U	1.4	U	0.56	J	1.3	U	1.6	U	1.1	U	1.2	U
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	1.2		1.2		0.53	J	1.0		0.25	J	0.89	U	1.1	U	0.77	U	0.83	U
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	8.7		11		14		8.9		4.8		11		16		8.3		12	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	17		21		95		19		12		33		26		29		25	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.3	UJ	4.3	UJ	4.4	UJ	4.4	UJ	4.0	UJ	4.1	UJ	4.3	UJ	4.0	UJ	4.3	UJ
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.016	J	0.028	J	0.041	U	0.024	J	0.0055	J	0.040	U	0.046	J	0.039	U	0.011	J
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.494	U	0.509	U	0.545	U	0.547	U	0.460	U	0.462	U	0.472	U	0.448	U	0.479	U

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure Criteria.

[2] RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA Leachability Criteria.

BOLD - Reporting Limit exceeds Table 1 Regulatory Limit

Bold /Shaded - Result exceeds Table 1 Regulatory Limit

BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit

Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-120-0810		NOB-119-0002		NOB-119-0507		NOB-122-0002		NOB-122-1315		DUP-02		NOB-123-0002		NOB-123-0507		NOB-108-0002	
					Laboraory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***4.3***	***U***	***3.4***	***U***	***3.9***	***U***	***4.4***	***U***	***3.9***	***U***	***4.8***	***U***	***4.1***	***U***	***3.6***	***U***	***3.6***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	14	
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	48	
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-120-0810		NOB-119-0002		NOB-119-0507		NOB-122-0002		NOB-122-1315		DUP-02		NOB-123-0002		NOB-123-0507		NOB-108-0002	
					Laboraory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	8.6	U	6.8	U	7.7	U	8.9	U	7.8	U	9.7	U	8.2	U	7.2	U	7.2	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	4.3	U	3.4	U	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	4.3	U	3.4	UJ	3.9	U	4.4	U	3.9	U	4.8	U	4.1	U	3.6	U	3.6	U
Semivolatile Organic Compounds																							
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	370	U	350	U	340	U	370	U	**420**	U	370	U	**420**	U	370	U	400	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-120-0810		NOB-119-0002		NOB-119-0507		NOB-122-0002		NOB-122-1315		DUP-02		NOB-123-0002		NOB-123-0507		NOB-108-0002	
					Laboraory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	750	U	180	J	82	J	750	U	860	U	180	J	210	J	740	U	140	J
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	370	U	350	U	340	U	370	U	450		370	U	420	U	370	U	400	U
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	370	U	350	U	340	U	370	U	**420**	U	370	U	**420**	U	370	U	400	U
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	370	U	350	U	340	U	370	U	**420**	U	370	U	**420**	U	370	U	400	U
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	360	J	510		510		540		320	J	600		480		410		460	
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	370	U	350	U	340	U	370	U	**420**	U	370	U	**420**	U	370	U	400	U
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	750	U	710	U	700	U	750	U	860	U	750	U	850	U	740	U	810	U
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	370	U	350	U	340	U	370	U	420	U	370	U	420	U	370	U	400	U
Pesticides/PCBs																							
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	3.7	U	3.5	U	3.5	U	2.2	J	4.2	U	3.1	J	16		3.7	U	4.0	U
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	3.7	U	3.5	UJ	3.5	U	3.7	U	4.2	U	3.8	U	10		3.7	U	2.9	J
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	3.7	U	3.5	U	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	1.9	U	1.8	U	1.8	U	1.9	U	2.2	U	1.9	U	3.3	J	1.9	U	2.0	U
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	1.9	U	1.8	UJ	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	1.9	U	1.8	UJ	1.8	U	5.0	J	2.2	U	6.0	J	55		1.9	U	1.5	J
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	1.9	U	1.8	U	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	1.9	U	1.8	U	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	3.7	U	3.5	UJ	3.5	U	5.0		4.2	U	4.8		38		3.7	U	4.0	U
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	1.9	U	1.8	U	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	3.7	U	3.5	U	3.5	U	3.7	U	4.2	U	3.8	U	4.2	J	3.7	U	4.0	U
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	3.7	U	3.5	UJ	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	3.7	U	3.5	UJ	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	3.7	U	3.5	R	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	3.7	U	3.5	UJ	3.5	U	3.7	U	4.2	U	3.8	U	8.2	U	3.7	U	4.0	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	1.9	U	1.8	UJ	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	1.9	U	1.8	UJ	1.8	U	2.5		2.2	U	3.1		29		1.9	U	2.0	U
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	1.9	U	1.8	UJ	1.8	U	1.9	U	2.2	U	1.9	U	4.2	U	1.9	U	2.0	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-120-0810		NOB-119-0002		NOB-119-0507		NOB-122-0002		NOB-122-1315		DUP-02		NOB-123-0002		NOB-123-0507		NOB-108-0002	
					Laboraory ID	P1467-06D		P1467-07D		P1467-08D		P1467-09D		P1467-10D		P1467-11D		P1467-12D		P1467-13D		P1467-14D	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	1.9	U	1.8	UJ	1.8	U	1.9	U	2.2	U	1.9	U	5.2		1.9	U	2.0	U
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	19	U	18	U	18	U	19	U	22	U	19	U	42	U	19	U	20	U
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	190	U	180	U	180	U	190	U	220	U	190	U	420	U	190	U	200	U
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	37	U	35	U	35	U	37	U	42	U	38	U	41	U	37	U	40	U
Total Petroleum Hydrocarbons																							
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2200	U	2500	U	2100	U	2200	U	2700	U	2300	U	2800	U	2400	U	2300	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C3(	mg/Kg	NE	NE	7.8	U	7.4	U	7.2	U	8.0	U	8.9	U	9.0		9.5		7.9	U	10	
Metals and Cyanide																							
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.88	U	0.80	U	0.88	U	0.97	U	0.91	U	1.0	U	1.1	U	0.87	U	1.1	U
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	**11**		5.4		5.9		6.6		5.0		**7.0**		5.6		6.6		1.1	U
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	31		22		25		13		30		14		30		21		11	
Beryllium	7440-41-7	SW6010	mg/Kg	0.4	NE	**0.46**		**0.56**		**0.40**		0.29		0.31		0.31		0.37		0.26		0.10	J
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.22	U	0.20	U	0.22	U	0.24	U	0.15	J	0.26	U	0.28	U	0.22	U	0.034	J
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	9.6		8.6		11		6.8		6.4		7.5		5.5		8.9		2.3	
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	17		11		12		8.3		23		9.1		9.3		18		4.6	
Lead	7439-92-1	SW6010	mg/Kg	150	NE	13		7.9		8.8		5.1		9.9		5.9		20		13		9.2	
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	250		300		340		170		290		180		140		**500**		43	
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	11		11		11		8.5		21		9.6		5.1		17		2.2	J
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	0.67	J	1.2	U	1.3	U	1.4	U	1.4	U	1.6	U	1.7	U	1.3	U	4.9	
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.3	U	1.2	U	1.3	U	1.4	U	1.4	U	1.6	U	1.7	U	1.3	U	0.78	J
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	0.44	J	0.19	J	0.64	J	0.97	U	1.1		1.0	U	1.1	U	0.87	U	0.46	J
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	11		13		9.7		9.5		9.0		10		11		8.6		4.8	
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	33		26		29		21		110		23		20		40		8.6	
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.5	UJ	4.3	UJ	4.0	UJ	4.6	UJ	5.1	UJ	4.4	UJ	5.1	UJ	4.4	UJ	4.7	UJ
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.041	U	0.0078	J	0.039	U	0.0080	J	0.046	U	0.0094	J	0.033	J	0.039	U	0.015	J
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.533	U	0.426	U	0.392	U	0.480	U	0.494	U	0.549	U	0.549	U	0.576	U	0.506	U

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure Criteria.

[2] RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA Leachability Criteria.

BOLD - Reporting Limit exceeds Table 1 Regulatory Limit

Bold /Shaded - Result exceeds Table 1 Regulatory Limit

BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit

Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-108-1012		NOB-109-0002		NOB-109-0810		NOB-110-0002		NOB-110-0507		NOB-111-0002		DUP-01		NOB-111-0709		TRIP BLANK-03	
					Laboraory ID	P1467-15D		P1467-16D		P1467-17D		P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
Volatile Organic Compounds																							
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/Kg	2,200	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/Kg	540,000	11,000	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/Kg	1,300	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/Kg	3,600	100	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1-Dichloroethane	75-34-3	SW8260	ug/Kg	920,000	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1-Dichloroethene	75-35-4	SW8260	ug/Kg	200	700	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,1-Dichloropropene	563-58-6	SW8260	ug/Kg	NE	NE	2.8	U	3.8	UJ	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/Kg	NE	NE	2.8	U	3.8	UJ	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/Kg	NE	NE	2.8	U	3.8	UJ	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/Kg	500	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2-Dibromoethane	106-93-4	SW8260	ug/Kg	10	0.5	***2.8***	***U***	***3.8***	***U***	***4.6***	***U***	***3.7***	***U***	***3.9***	***U***	***3.7***	***U***	***3.5***	***U***	***4.3***	***U***	***5.0***	***U***
1,2-Dichlorobenzene	95-50-1	SW8260	ug/Kg	NE	NE	2.8	U	3.8	UJ	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2-Dichloroethane	107-06-2	SW8260	ug/Kg	900	100	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,2-Dichloropropane	78-87-5	SW8260	ug/Kg	1,900	100	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,3-Dichloropropane	142-28-9	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
2,2-Dichloropropane	594-20-7	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
2-Butanone	78-93-3	SW8260	ug/Kg	10,000,000	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
2-Chlorotoluene	95-49-8	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
2-Hexanone	591-78-6	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
4-Chlorotoluene	106-43-4	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
4-Isopropyltoluene	99-87-6	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/Kg	1,200,000	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Acetone	67-64-1	SW8260	ug/Kg	7,800,000	NE	3.6		3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Benzene	71-43-2	SW8260	ug/Kg	2,500	200	2.8	U	3.8	UJ	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromobenzene	108-86-1	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromochloromethane	74-97-5	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromodichloromethane	75-27-4	SW8260	ug/Kg	10,000	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromoform	75-25-2	SW8260	ug/Kg	81,000	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Bromomethane	74-83-9	SW8260	ug/Kg	800	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Carbon disulfide	75-15-0	SW8260	ug/Kg	NE	NE	2.8	U	3.8	UJ	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Carbon tetrachloride	56-23-5	SW8260	ug/Kg	1,500	400	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Chlorobenzene	108-90-7	SW8260	ug/Kg	210,000	3,200	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Chloroethane	75-00-3	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Chloroform	67-66-3	SW8260	ug/Kg	1,200	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Chloromethane	74-87-3	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/Kg	630,000	1,700	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Dibromochloromethane	124-48-1	SW8260	ug/Kg	7,600	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Dibromomethane	74-95-3	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Diethyl ether	60-29-7	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Ethylbenzene	100-41-4	SW8260	ug/Kg	71,000	27,000	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Hexachlorobutadiene	87-68-3	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Isopropylbenzene	98-82-8	SW8260	ug/Kg	27,000	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
m,p-Xylene	179601-23-1	SW8260	ug/Kg	110,000	540,000	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/Kg	390,000	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Methylene chloride	75-09-2	SW8260	ug/Kg	45,000	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	18	
n-Butylbenzene	104-51-8	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-108-1012		NOB-109-0002		NOB-109-0810		NOB-110-0002		NOB-110-0507		NOB-111-0002		DUP-01		NOB-111-0709		TRIP BLANK-03	
					Laboraory ID	P1467-15D		P1467-16D		P1467-17D		P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A	
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																		
n-Propylbenzene	103-65-1	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Naphthalene	91-20-3	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
o-Xylene	95-47-6	SW8260	ug/Kg	110,000	540,000	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
sec-Butylbenzene	135-98-8	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Styrene	100-42-5	SW8260	ug/Kg	13,000	2,900	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
tert-Butylbenzene	98-06-6	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Tetrachloroethene	127-18-4	SW8260	ug/Kg	12,000	100	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Tetrahydrofuran	109-99-9	SW8260	ug/Kg	NE	NE	5.7	U	7.7	U	9.2	U	7.3	U	7.8	U	7.3	U	7.0	U	8.5	U	10	U
Toluene	108-88-3	SW8260	ug/Kg	190,000	32,000	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/Kg	1,100,000	3,300	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Trichloroethene	79-01-6	SW8260	ug/Kg	13,000	200	2.8	U	3.8	UJ	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Trichlorofluoromethane	75-69-4	SW8260	ug/Kg	NE	NE	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Vinyl chloride	75-01-4	SW8260	ug/Kg	20	300	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Xylene (Total)	1330-20-7	SW8260	ug/Kg	110,000	540,000	2.8	U	3.8	U	4.6	U	3.7	U	3.9	U	3.7	U	3.5	U	4.3	U	5.0	U
Semivolatile Organic Compounds																							
1,1´-Biphenyl	92-52-4	SW8270	ug/Kg	800	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/Kg	96,000	140,000	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
1,2-Dichlorobenzene	95-50-1	SW8270	ug/Kg	510,000	41,000	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
1,3-Dichlorobenzene	541-73-1	SW8270	ug/Kg	430,000	41,000	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
1,4-Dichlorobenzene	106-46-7	SW8270	ug/Kg	27,000	41,000	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/Kg	330,000	NE	780	U	710	U	730	U	790	U	710	U	690	U	680	U	760	U		
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/Kg	58,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2,4-Dichlorophenol	120-83-2	SW8270	ug/Kg	30,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2,4-Dimethylphenol	105-67-9	SW8270	ug/Kg	1,400,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2,4-Dinitrophenol	51-28-5	SW8270	ug/Kg	160,000	NE	780	U	710	U	730	U	790	U	710	U	690	U	680	U	760	U		
2,4-Dinitrotoluene	121-14-2	SW8270	ug/Kg	900	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2,6-Dinitrotoluene	606-20-2	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2-Chloronaphthalene	91-58-7	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2-Chlorophenol	95-57-8	SW8270	ug/Kg	50,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2-Methylnaphthalene	91-57-6	SW8270	ug/Kg	123,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2-Methylphenol	95-48-7	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
2-Nitroaniline	88-74-4	SW8270	ug/Kg	NE	NE	780	U	710	U	730	U	790	U	710	U	690	U	680	U	760	U		
2-Nitrophenol	88-75-5	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/Kg	1,400	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
3-Nitroaniline	99-09-2	SW8270	ug/Kg	NE	NE	780	U	710	U	730	U	790	U	710	U	690	U	680	U	760	U		
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/Kg	NE	NE	780	U	710	U	730	U	790	U	710	U	690	U	680	U	760	U		
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
4-Chloroaniline	106-47-8	SW8270	ug/Kg	310,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
4-Methylphenol	106-44-5	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
4-Nitroaniline	100-01-6	SW8270	ug/Kg	NE	NE	780	U	710	U	730	U	790	U	710	U	690	U	680	U	760	U		
4-Nitrophenol	100-02-7	SW8270	ug/Kg	NE	NE	780	U	710	U	730	U	790	U	710	U	690	U	680	U	760	U		
Acenaphthene	83-32-9	SW8270	ug/Kg	43,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
Acenaphthylene	208-96-8	SW8270	ug/Kg	23,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
Acetophenone	98-86-2	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
Aniline	62-53-3	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
Anthracene	120-12-7	SW8270	ug/Kg	35,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
Azobenzene	103-33-3	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
Benzidine	92-87-5	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
Benzo(a)anthracene	56-55-3	SW8270	ug/Kg	900	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		
Benzo(a)pyrene	50-32-8	SW8270	ug/Kg	400	240,000	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U		

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-108-1012		NOB-109-0002		NOB-109-0810		NOB-110-0002		NOB-110-0507		NOB-111-0002		DUP-01		NOB-111-0709		TRIP BLANK-03
					Laboraory ID	P1467-15D		P1467-16D		P1467-17D		P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																	
Benzo(b)fluoranthene	205-99-2	SW8270	ug/Kg	900	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/Kg	800	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Benzo(k)fluoranthene	207-08-9	SW8270	ug/Kg	900	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Benzoic acid	65-85-0	SW8270	ug/Kg	NE	NE	780	U	130	J	130	J	790	U	89	J	110	J	680	U	110	J	
Benzyl alcohol	100-51-6	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/Kg	600	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/Kg	9,100	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/Kg	46,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Butylbenzylphthalate	85-68-7	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Carbazole	86-74-8	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Chrysene	218-01-9	SW8270	ug/Kg	400	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Di-n-butylphthalate	84-74-2	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Di-n-octylphthalate	117-84-0	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/Kg	400	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Dibenzofuran	132-64-9	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Diethylphthalate	84-66-2	SW8270	ug/Kg	340,000	120,000	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Dimethylphthalate	131-11-3	SW8270	ug/Kg	1,900,000	NE	350	J	290	J	320	J	260	J	320	J	370		280	J	360	J	
Fluoranthene	206-44-0	SW8270	ug/Kg	20,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Fluorene	86-73-7	SW8270	ug/Kg	28,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Hexachlorobenzene	118-74-1	SW8270	ug/Kg	400	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Hexachlorobutadiene	87-68-3	SW8270	ug/Kg	8,200	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Hexachloroethane	67-72-1	SW8270	ug/Kg	46,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/Kg	900	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Isophorone	78-59-1	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
N-Nitrosodimethylamine	62-75-9	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Naphthalene	91-20-3	SW8270	ug/Kg	54,000	800	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Nitrobenzene	98-95-3	SW8270	ug/Kg	NE	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Pentachlorophenol	87-86-5	SW8270	ug/Kg	5,300	7,100	780	U	710	U	730	U	790	U	710	U	690	U	680	U	760	U	
Phenanthrene	85-01-8	SW8270	ug/Kg	40,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Phenol	108-95-2	SW8270	ug/Kg	6,000,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Pyrene	129-00-0	SW8270	ug/Kg	13,000	NE	390	U	350	U	360	U	390	U	350	U	340	U	330	U	380	U	
Pesticides/PCBs																						
4,4´-DDD	72-54-8	SW8081	ug/Kg	NE	NE	3.9	U	2.4	J	3.7	U	8.4		3.5	U	3.9		2.6	J	3.7	U	
4,4´-DDE	72-55-9	SW8081	ug/Kg	NE	NE	3.9	U	7.0	J	3.7	U	17		3.5	U	3.6		3.3	J	3.7	U	
4,4´-DDT	50-29-3	SW8081	ug/Kg	NE	NE	3.9	U	4.6	J	3.7	U	15		3.5	U	3.5		2.7	J	3.7	U	
Aldrin	309-00-2	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.9	U	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
alpha-BHC	319-84-6	SW8081	ug/Kg	NE	NE	2.0	U	1.8	UJ	1.9	U	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
alpha-Chlordane	5103-71-9	SW8081	ug/Kg	500	1,400	2.0	U	2.3	J	1.9	U	19	J	1.8	U	8.5	J	7.8	J	1.9	U	
beta-BHC	319-85-7	SW8081	ug/Kg	NE	NE	2.0	U	1.8	UJ	1.9	U	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
delta-BHC	319-86-8	SW8081	ug/Kg	NE	NE	2.0	U	1.8	UJ	1.9	U	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
Dieldrin	60-57-1	SW8081	ug/Kg	40	NE	3.9	U	3.5	UJ	3.7	U	2.2	J	3.5	U	3.4	U	3.4	U	3.7	U	
Endosulfan I	959-98-8	SW8081	ug/Kg	NE	NE	2.0	U	1.8	U	1.9	U	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
Endosulfan II	33213-65-9	SW8081	ug/Kg	NE	NE	3.9	U	3.5	U	3.7	U	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
Endosulfan sulfate	1031-07-8	SW8081	ug/Kg	NE	NE	3.9	U	3.5	UJ	3.7	U	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
Endrin	72-20-8	SW8081	ug/Kg	NE	NE	3.9	U	3.5	UJ	3.7	U	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
Endrin aldehyde	7421-93-4	SW8081	ug/Kg	NE	NE	3.9	U	3.5	R	3.7	U	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
Endrin ketone	53494-70-5	SW8081	ug/Kg	NE	NE	3.9	U	3.5	UJ	3.7	U	3.8	U	3.5	U	3.4	U	3.4	U	3.7	U	
gamma-BHC (Lindane)	58-89-9	SW8081	ug/Kg	NE	NE	2.0	U	1.8	UJ	1.9	U	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	
gamma-Chlordane	5103-74-2	SW8081	ug/Kg	500	1,400	2.0	U	1.2	J	1.9	U	9.3		1.8	U	4.8		4.5		1.9	U	
Heptachlor	76-44-8	SW8081	ug/Kg	NE	NE	2.0	U	1.8	UJ	1.9	U	2.0	U	1.8	U	1.8	U	1.8	U	1.9	U	

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Soil Results
Palmer Pointe Site
Barrington, Rhode Island

					Sample ID	NOB-108-1012		NOB-109-0002		NOB-109-0810		NOB-110-0002		NOB-110-0507		NOB-111-0002		DUP-01		NOB-111-0709		TRIP BLANK-03
					Laboraory ID	P1467-15D		P1467-16D		P1467-17D		P1467-18D		P1467-19D		P1467-20D		P1467-21D		P1467-22D		P1467-23A
					Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM Residential Direct Exposure Criteria[1]**	**RIDEM GA Leachability Criteria[2]**																	
Heptachlor epoxide	1024-57-3	SW8081	ug/Kg	NE	NE	2.0	U	1.8	UJ	1.9	U	2.1	J	1.8	U	0.98	J	1.3	J	1.9	U	
Methoxychlor	72-43-5	SW8081	ug/Kg	NE	NE	20	U	18	UJ	19	U	20	U	18	U	18	U	18	U	19	U	
Toxaphene	8001-35-2	SW8081	ug/Kg	NE	NE	200	U	180	U	190	U	200	U	180	U	180	U	180	U	190	U	
Aroclor-1016	12674-11-2	SW8082	ug/Kg	10,000	10,000	39	U	35	U	37	U	38	U	35	U	34	U	34	U	37	U	
Aroclor-1221	11104-28-2	SW8082	ug/Kg	10,000	10,000	39	U	35	U	37	U	38	U	35	U	34	U	34	U	37	U	
Aroclor-1232	11141-16-5	SW8082	ug/Kg	10,000	10,000	39	U	35	U	37	U	38	U	35	U	34	U	34	U	37	U	
Aroclor-1242	53469-21-9	SW8082	ug/Kg	10,000	10,000	39	U	35	U	37	U	38	U	35	U	34	U	34	U	37	U	
Aroclor-1248	12672-29-6	SW8082	ug/Kg	10,000	10,000	39	U	35	U	37	U	38	U	35	U	34	U	34	U	37	U	
Aroclor-1254	11097-69-1	SW8082	ug/Kg	10,000	10,000	39	U	35	U	37	U	38	U	35	U	34	U	34	U	37	U	
Aroclor-1260	11096-82-5	SW8082	ug/Kg	10,000	10,000	39	U	35	U	37	U	38	U	35	U	34	U	34	U	37	U	
Total Petroleum Hydrocarbons																						
Gasoline Range Organics	8888-88-88	GRO	ug/Kg	NE	NE	2600	U	2200	U	2200	U	2600	U	2700	U	1900	U	2000	U	2200	U	
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C3(	mg/Kg	NE	NE	8.2	U	9.0	J	7.7	U	9.3		7.4	U	7.3	U	7.2	U	8.0	U	
Metals and Cyanide																						
Antimony	7440-36-0	SW6010	mg/Kg	10	NE	0.85	U	0.75	U	1.0	U	0.87	U	0.96	U	0.87	U	0.93	U	0.92	U	
Arsenic	7440-38-2	SW6010	mg/Kg	7	NE	**10**		**7.1**		**7.9**		6.4		5.5		4.6		4.8		**8.2**		
Barium	7440-39-3	SW6010	mg/Kg	5,500	NE	10		12		18		14		20		8.7	J	11		13		
Beryllium	7440-41-7	SW6010	mg/Kg	0.4	NE	0.16	J	0.34		0.33		0.28		**0.40**		0.31		0.23	J	0.31		
Cadmium	7440-43-9	SW6010	mg/Kg	39	NE	0.015	J	0.19	U	0.12	J	0.071	J	0.20	J	0.15	J	0.23	U	0.23	U	
Chromium	7440-47-3	SW6010	mg/Kg	1,400	NE	15		6.8		16		8.4		9.4		8.6		8.0		17		
Copper	7440-50-8	SW6010	mg/Kg	3,100	NE	23		10		26		13		17		12		9.7		31		
Lead	7439-92-1	SW6010	mg/Kg	150	NE	5.5		12		13		21		13		7.6		6.8		12		
Manganese	7439-96-5	SW6010	mg/Kg	390	NE	290		180		**690**		190		**390**		190		220		370		
Nickel	7440-02-0	SW6010	mg/Kg	1,000	NE	29		8.3		26		7.6		12		9.6		10		25		
Selenium	7782-49-2	SW6010	mg/Kg	390	NE	1.3	U	1.1	U	1.6	U	0.76	J	1.4	U	1.3	U	1.4	U	1.4	U	
Silver	7440-22-4	SW6010	mg/Kg	200	NE	1.3	U	1.1	U	0.30	J	0.062	J	0.15	J	0.11	J	1.4	U	1.4	U	
Thallium	7440-28-0	SW6010	mg/Kg	5.5	NE	0.85	U	0.75	U	1.0	U	0.87	U	0.96	U	0.87	U	0.23	J	0.73	J	
Vanadium	7440-62-2	SW6010	mg/Kg	550	NE	12		11		11		11		8.6		8.9		9.7		14		
Zinc	7440-66-6	SW6010	mg/Kg	6,000	NE	51		24		50		23		30		24		26		61		
Chromium, Hexavalent	18540-29-9	SW7196	mg/Kg	390	NE	4.7	UJ	4.4	UJ	4.4	UJ	4.5	UJ	4.1	UJ	4.1	UJ	4.0	UJ	4.6	UJ	
Mercury	7439-97-6	SW7471	mg/Kg	23	NE	0.044	U	0.017	J	0.043	U	0.057	J	0.039	U	0.0035	J	0.0058	J	0.040	U	
Cyanide	57-12-5	SW9012	mg/Kg	200	NE	0.468	U	0.450	U	0.451	U	0.489	U	0.452	U	0.481	U	0.492	U	0.549	U	

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 1, Residential Direct Exposure Criteria.

[2] RIDEM Remediation Regulations, DEM-DSR-01-93, February 2004, Table 2, GA Leachability Criteria.

BOLD - Reporting Limit exceeds Table 1 Regulatory Limit

Bold /Shaded - Result exceeds Table 1 Regulatory Limit

BOLD Italics - Reporting Limit exceeds Table 2 Regulatory Limit

Bold Italics /Shaded - Result exceeds Table 2 Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated; J-estimated; R-rejected

DATA SUMMARY TABLE
Groundwater Results
Palmer Pointe
Barrington, Rhode Island

				Sample ID	WELL-2		TRIP BLANK-02		WELL-2-F		WELL-1		DUP-01-GW		TRIP BLANK		WELL-1-F		DUP-01-GW-F		NOB-113-GW		NOB-121-GW	
				Laboraory ID	P1454-01F		P1454-02A		P1454-03A		P1457-01E		P1457-02E		P1457-03A		P1457-04A		P1457-05A		P1465-01E		P1465-02E	
				Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**																				
Volatile Organic Compounds																								
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1,1-Trichloroethane	71-55-6	SW8260	ug/L	200	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1,2-Trichloroethane	79-00-5	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1-Dichloroethane	75-34-3	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1-Dichloroethene	75-35-4	SW8260	ug/L	7	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,1-Dichloropropene	563-58-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2,3-Trichloropropane	96-18-4	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/L	0.2	**5.0**	U	**5.0**	U			**5.0**	U	**5.0**	U	**5.0**	U					**5.0**	U	**5.0**	U
1,2-Dibromoethane	106-93-4	SW8260	ug/L	0.05	**5.0**	U	**5.0**	U			**5.0**	U	**5.0**	U	**5.0**	U					**5.0**	U	**5.0**	U
1,2-Dichlorobenzene	95-50-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2-Dichloroethane	107-06-2	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2-Dichloropropane	78-87-5	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,3-Dichlorobenzene	541-73-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,3-Dichloropropane	142-28-9	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,4-Dichlorobenzene	106-46-7	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
2,2-Dichloropropane	594-20-7	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
2-Butanone	78-93-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
2-Chlorotoluene	95-49-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
2-Hexanone	591-78-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
4-Chlorotoluene	106-43-4	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
4-Isopropyltoluene	99-87-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
4-Methyl-2-pentanone	108-10-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Acetone	67-64-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Benzene	71-43-2	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromobenzene	108-86-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromochloromethane	74-97-5	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromodichloromethane	75-27-4	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromoform	75-25-2	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Bromomethane	74-83-9	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Carbon disulfide	75-15-0	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Carbon tetrachloride	56-23-5	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Chlorobenzene	108-90-7	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Chloroethane	75-00-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Chloroform	67-66-3	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Chloromethane	74-87-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/L	70	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Dibromochloromethane	124-48-1	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Dibromomethane	74-95-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Dichlorodifluoromethane	75-71-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Diethyl ether	60-29-7	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Ethylbenzene	100-41-4	SW8260	ug/L	700	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Hexachlorobutadiene	87-68-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Isopropylbenzene	98-82-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
m,p-Xylene	179601-23-1	SW8260	ug/L	10,000	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Methyl tert-butyl ether	1634-04-4	SW8260	ug/L	40	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Methylene chloride	75-09-2	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
n-Butylbenzene	104-51-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
n-Propylbenzene	103-65-1	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Naphthalene	91-20-3	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U

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DATA SUMMARY TABLE
Groundwater Results
Palmer Pointe
Barrington, Rhode Island

				Sample ID	WELL-2		TRIP BLANK-02		WELL-2-F		WELL-1		DUP-01-GW		TRIP BLANK		WELL-1-F		DUP-01-GW-F		NOB-113-GW		NOB-121-GW	
				Laboraory ID	P1454-01F		P1454-02A		P1454-03A		P1457-01E		P1457-02E		P1457-03A		P1457-04A		P1457-05A		P1465-01E		P1465-02E	
				Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**																				
o-Xylene	95-47-6	SW8260	ug/L	10,000	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
sec-Butylbenzene	135-98-8	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Styrene	100-42-5	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
tert-Butylbenzene	98-06-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Tetrachloroethene	127-18-4	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Tetrahydrofuran	109-99-9	SW8260	ug/L	NE	10	U	10	U			10	U	10	U	10	U					10	U	10	U
Toluene	108-88-3	SW8260	ug/L	1	**5.0**	U	**5.0**	U			**5.0**	U	**5.0**	U	**5.0**	U					**5.0**	U	**5.0**	U
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/L	100	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Trichloroethene	79-01-6	SW8260	ug/L	5	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Trichlorofluoromethane	75-69-4	SW8260	ug/L	NE	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
Vinyl chloride	75-01-4	SW8260	ug/L	2	**5.0**	U	**5.0**	U			**5.0**	U	**5.0**	U	**5.0**	U					**5.0**	U	**5.0**	U
Xylene (Total)	1330-20-7	SW8260	ug/L	10,000	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U					5.0	U	5.0	U
1,2-Dibromo-3-chloropropane	96-12-8	SW8011	ug/L	0.2	0.021	U					0.021	U	0.020	U							0.020	U	0.021	U
1,2-Dibromoethane	106-93-4	SW8011	ug/L	0.05	0.021	U					0.021	U	0.020	U							0.020	U	0.021	U
Semivolatile Organic Compounds																								
1,1´-Biphenyl	92-52-4	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/L	70	10	U					10	U	10	U							10	U	10	U
1,2-Dichlorobenzene	95-50-1	SW8270	ug/L	600	10	U					10	U	10	U							10	U	10	U
1,3-Dichlorobenzene	541-73-1	SW8270	ug/L	600	10	U					10	U	10	U							10	U	10	U
1,4-Dichlorobenzene	106-46-7	SW8270	ug/L	75	10	U					10	U	10	U							10	U	10	U
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2,4-Dichlorophenol	120-83-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2,4-Dimethylphenol	105-67-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2,4-Dinitrophenol	51-28-5	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
2,4-Dinitrotoluene	121-14-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2,6-Dinitrotoluene	606-20-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Chloronaphthalene	91-58-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Chlorophenol	95-57-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Methylnaphthalene	91-57-6	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Methylphenol	95-48-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
2-Nitroaniline	88-74-4	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
2-Nitrophenol	88-75-5	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
3-Nitroaniline	99-09-2	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Chloroaniline	106-47-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Methylphenol	106-44-5	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
4-Nitroaniline	100-01-6	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
4-Nitrophenol	100-02-7	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
Acenaphthene	83-32-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Acenaphthylene	208-96-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Acetophenone	98-86-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Aniline	62-53-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Anthracene	120-12-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Azobenzene	103-33-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzidine	92-87-5	SW8270	ug/L	NE	10	UJ					10	U	10	U							10	U	10	U
Benzo(a)anthracene	56-55-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzo(a)pyrene	50-32-8	SW8270	ug/L	0.2	**10**	U					**10**	U	**10**	U							**10**	U	**10**	U
Benzo(b)fluoranthene	205-99-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U

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DATA SUMMARY TABLE
Groundwater Results
Palmer Pointe
Barrington, Rhode Island

				Sample ID	WELL-2		TRIP BLANK-02		WELL-2-F		WELL-1		DUP-01-GW		TRIP BLANK		WELL-1-F		DUP-01-GW-F		NOB-113-GW		NOB-121-GW	
				Laboraory ID	P1454-01F		P1454-02A		P1454-03A		P1457-01E		P1457-02E		P1457-03A		P1457-04A		P1457-05A		P1465-01E		P1465-02E	
				Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**																				
Benzo(k)fluoranthene	207-08-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Benzoic acid	65-85-0	SW8270	ug/L	NE	20	U					20	U	20	U							20	U	20	U
Benzyl alcohol	100-51-6	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/L	6	2.5	J					4.4	J	**10**	U							**10**	U	1.6	J
Butylbenzylphthalate	85-68-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Carbazole	86-74-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Chrysene	218-01-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Di-n-butylphthalate	84-74-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Di-n-octylphthalate	117-84-0	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Dibenzofuran	132-64-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Diethylphthalate	84-66-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Dimethylphthalate	131-11-3	SW8270	ug/L	NE	2.1	J					2.7	J	1.9	J							1.6	J	3.2	J
Fluoranthene	206-44-0	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Fluorene	86-73-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Hexachlorobenzene	118-74-1	SW8270	ug/L	1	**10**	U					**10**	U	**10**	U							**10**	U	**10**	U
Hexachlorobutadiene	87-68-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Hexachloroethane	67-72-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Isophorone	78-59-1	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
N-Nitrosodimethylamine	62-75-9	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Naphthalene	91-20-3	SW8270	ug/L	20	10	U					10	U	10	U							10	U	10	U
Nitrobenzene	98-95-3	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Pentachlorophenol	87-86-5	SW8270	ug/L	1	**20**	U					**20**	U	**20**	U							**20**	UJ	**20**	UJ
Phenanthrene	85-01-8	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Phenol	108-95-2	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Pyrene	129-00-0	SW8270	ug/L	NE	10	U					10	U	10	U							10	U	10	U
Pesticides/PCBs																								
4,4´-DDD	72-54-8	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
4,4´-DDE	72-55-9	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
4,4´-DDT	50-29-3	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Aldrin	309-00-2	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
alpha-BHC	319-84-6	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
alpha-Chlordane	5103-71-9	SW8081	ug/L	2	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
beta-BHC	319-85-7	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
delta-BHC	319-86-8	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Dieldrin	60-57-1	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endosulfan I	959-98-8	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Endosulfan II	33213-65-9	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endosulfan sulfate	1031-07-8	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endrin	72-20-8	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endrin aldehyde	7421-93-4	SW8081	ug/L	NE	0.10	U					0.10	U	0.10	U							0.10	U	0.10	U
Endrin ketone	53494-70-5	SW8081	ug/L	NE	0.10	UJ					0.10	U	0.10	U							0.10	U	0.10	U
gamma-BHC (Lindane)	58-89-9	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
gamma-Chlordane	5103-74-2	SW8081	ug/L	2	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Heptachlor	76-44-8	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Heptachlor epoxide	1024-57-3	SW8081	ug/L	NE	0.050	U					0.050	U	0.050	U							0.050	U	0.050	U
Methoxychlor	72-43-5	SW8081	ug/L	NE	0.50	U					0.50	U	0.50	U							0.50	U	0.50	U
Toxaphene	8001-35-2	SW8081	ug/L	NE	5.0	U					5.0	U	5.0	U							5.0	U	5.0	U
Aroclor-1016	12674-11-2	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U

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Palmer Pointe
Barrington, Rhode Island

				Sample ID	WELL-2		TRIP BLANK-02		WELL-2-F		WELL-1		DUP-01-GW		TRIP BLANK		WELL-1-F		DUP-01-GW-F		NOB-113-GW		NOB-121-GW	
				Laboraory ID	P1454-01F		P1454-02A		P1454-03A		P1457-01E		P1457-02E		P1457-03A		P1457-04A		P1457-05A		P1465-01E		P1465-02E	
				Sample Collection Date	09/29/2015		09/29/2015		09/29/2015		09/28/2015		09/28/2015		09/29/2015		09/28/2015		09/28/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**																				
Aroclor-1221	11104-28-2	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1232	11141-16-5	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1242	53469-21-9	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1248	12672-29-6	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1254	11097-69-1	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Aroclor-1260	11096-82-5	SW8082	ug/L	0.5	**1.0**	U					**1.0**	U	**1.0**	U							**1.0**	U	**1.0**	U
Total Petroleum Hydrocarbons																								
Gasoline Range Organics	8888-88-88	GRO	ug/L	NE	100	U					100	U	100	U							100	U	100	U
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/L	NE	0.20	U					0.20	U	0.20	U							0.20	U	0.20	U
Metals and Cyanide																								
Antimony	7440-36-0	SW6020	ug/L	6	2.0	U			2.0	U	2.0	U	2.0	U			2.0	U	2.0	U	2.0	U	2.0	U
Arsenic	7440-38-2	SW6020	ug/L	NE	0.23	J			0.22	J	0.24	J	2.0	U			2.0	U	2.0	U	0.53	J	0.31	J
Barium	7440-39-3	SW6020	ug/L	2,000	8.0	J			8.1	J	8.6	J	8.2	J			7.8	J	7.8	J	62		17	
Beryllium	7440-41-7	SW6020	ug/L	4	1.0	U			1.0	U	1.0	U	1.0	U			1.0	U	1.0	U	1.0	U	1.0	U
Cadmium	7440-43-9	SW6020	ug/L	5	0.77	J			0.63	J	1.0	U	1.0	U			1.0	U	1.0	U	1.0	U	1.0	U
Chromium	7440-47-3	SW6020	ug/L	100	2.0	U			3.4		2.0	U	2.0	U			2.0	U	2.0	U	0.48	J	0.78	J
Copper	7440-50-8	SW6020	ug/L	NE	1.1	J			1.0	J	1.8	J	1.4	J			0.47	J	0.32	J	1.3	J	1.1	J
Lead	7439-92-1	SW6020	ug/L	15	0.19	J			1.0	U	1.2		0.76	J			1.0	U	1.0	U	0.43	J	0.28	J
Manganese	7439-96-5	SW6020	ug/L	NE	4500				3500		570		550				540		540		340		67	
Nickel	7440-02-0	SW6020	ug/L	100	9.5				11		0.87	J	0.79	J			0.51	J	0.59	J	2.5		2.5	
Selenium	7782-49-2	SW6020	ug/L	50	5.0	U			5.0	U	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U	5.0	U
Silver	7440-22-4	SW6020	ug/L	NE	1.0	U			1.0	U	1.0	U	1.0	U			1.0	U	1.0	U	1.0	U	1.0	U
Thallium	7440-28-0	SW6020	ug/L	2	0.38	J			1.0	U	1.0	U	0.14	J			1.0	U	1.0	U	1.0	U	1.0	U
Vanadium	7440-62-2	SW6020	ug/L	NE	5.0	U			5.0	U	5.0	U	5.0	U			5.0	U	5.0	U	5.0	U	5.0	U
Zinc	7440-66-6	SW6020	ug/L	NE	24				22		14	J	9.4	J			4.0		2.0		6.1		4.7	
Mercury	7439-97-6	SW7470	ug/L	2	0.20	U			0.20	U	0.20	U	0.20	U			0.20	U	0.20	U	0.20	U	0.20	U
Cyanide	57-12-5	SW9012	ug/L	200	5	U					5	U	5	U							5	U	5	U

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 3, GA Groundwater Objectives.
BOLD - Reporting Limit exceeds Regulatory Limit
Bold /Shaded - Result exceeds Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

DATA SUMMARY TABLE
Groundwater Results
Palmer Pointe
Barrington, Rhode Island

				Sample ID	NOB-105-GW		TRIP BLANK-03		NOB-113-GW-F		NOB-121-GW-F		NOB-105-GW-F	
				Laboraory ID	P1465-03E		P1465-04A		P1465-05A		P1465-06A		P1465-07A	
				Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**										
Volatile Organic Compounds														
1,1,1,2-Tetrachloroethane	630-20-6	SW8260	ug/L	NE	5.0	U	5.0	U						
1,1,1-Trichloroethane	71-55-6	SW8260	ug/L	200	5.0	U	5.0	U						
1,1,2,2-Tetrachloroethane	79-34-5	SW8260	ug/L	NE	5.0	U	5.0	U						
1,1,2-Trichloroethane	79-00-5	SW8260	ug/L	5	5.0	U	5.0	U						
1,1-Dichloroethane	75-34-3	SW8260	ug/L	5	5.0	U	5.0	U						
1,1-Dichloroethene	75-35-4	SW8260	ug/L	7	5.0	U	5.0	U						
1,1-Dichloropropene	563-58-6	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2,3-Trichlorobenzene	87-61-6	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2,3-Trichloropropane	96-18-4	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2,4-Trichlorobenzene	120-82-1	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2,4-Trimethylbenzene	95-63-6	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2-Dibromo-3-chloropropane	96-12-8	SW8260	ug/L	0.2	**5.0**	U	**5.0**	U						
1,2-Dibromoethane	106-93-4	SW8260	ug/L	0.05	**5.0**	U	**5.0**	U						
1,2-Dichlorobenzene	95-50-1	SW8260	ug/L	NE	5.0	U	5.0	U						
1,2-Dichloroethane	107-06-2	SW8260	ug/L	5	5.0	U	5.0	U						
1,2-Dichloropropane	78-87-5	SW8260	ug/L	5	5.0	U	5.0	U						
1,3,5-Trimethylbenzene	108-67-8	SW8260	ug/L	NE	5.0	U	5.0	U						
1,3-Dichlorobenzene	541-73-1	SW8260	ug/L	NE	5.0	U	5.0	U						
1,3-Dichloropropane	142-28-9	SW8260	ug/L	NE	5.0	U	5.0	U						
1,4-Dichlorobenzene	106-46-7	SW8260	ug/L	NE	5.0	U	5.0	U						
2,2-Dichloropropane	594-20-7	SW8260	ug/L	NE	5.0	U	5.0	U						
2-Butanone	78-93-3	SW8260	ug/L	NE	5.0	U	5.0	U						
2-Chlorotoluene	95-49-8	SW8260	ug/L	NE	5.0	U	5.0	U						
2-Hexanone	591-78-6	SW8260	ug/L	NE	5.0	U	5.0	U						
4-Chlorotoluene	106-43-4	SW8260	ug/L	NE	5.0	U	5.0	U						
4-Isopropyltoluene	99-87-6	SW8260	ug/L	NE	5.0	U	5.0	U						
4-Methyl-2-pentanone	108-10-1	SW8260	ug/L	NE	5.0	U	5.0	U						
Acetone	67-64-1	SW8260	ug/L	NE	5.0	U	5.0	U						
Benzene	71-43-2	SW8260	ug/L	5	5.0	U	5.0	U						
Bromobenzene	108-86-1	SW8260	ug/L	NE	5.0	U	5.0	U						
Bromochloromethane	74-97-5	SW8260	ug/L	NE	5.0	U	5.0	U						
Bromodichloromethane	75-27-4	SW8260	ug/L	100	5.0	U	5.0	U						
Bromoform	75-25-2	SW8260	ug/L	100	5.0	U	5.0	U						
Bromomethane	74-83-9	SW8260	ug/L	NE	5.0	U	5.0	U						
Carbon disulfide	75-15-0	SW8260	ug/L	NE	5.0	U	5.0	U						
Carbon tetrachloride	56-23-5	SW8260	ug/L	5	5.0	U	5.0	U						
Chlorobenzene	108-90-7	SW8260	ug/L	100	5.0	U	5.0	U						
Chloroethane	75-00-3	SW8260	ug/L	NE	5.0	U	5.0	U						
Chloroform	67-66-3	SW8260	ug/L	100	5.0	U	5.0	U						
Chloromethane	74-87-3	SW8260	ug/L	NE	5.0	U	5.0	U						
cis-1,2-Dichloroethene	156-59-2	SW8260	ug/L	70	5.0	U	5.0	U						
cis-1,3-Dichloropropene	10061-01-5	SW8260	ug/L	NE	5.0	U	5.0	U						
Dibromochloromethane	124-48-1	SW8260	ug/L	100	5.0	U	5.0	U						
Dibromomethane	74-95-3	SW8260	ug/L	NE	5.0	U	5.0	U						
Dichlorodifluoromethane	75-71-8	SW8260	ug/L	NE	5.0	U	5.0	U						
Diethyl ether	60-29-7	SW8260	ug/L	NE	5.0	U	5.0	U						
Ethylbenzene	100-41-4	SW8260	ug/L	700	5.0	U	5.0	U						
Hexachlorobutadiene	87-68-3	SW8260	ug/L	NE	5.0	U	5.0	U						
Isopropylbenzene	98-82-8	SW8260	ug/L	NE	5.0	U	5.0	U						
m,p-Xylene	179601-23-1	SW8260	ug/L	10,000	5.0	U	5.0	U						
Methyl tert-butyl ether	1634-04-4	SW8260	ug/L	40	5.0	U	5.0	U						
Methylene chloride	75-09-2	SW8260	ug/L	5	5.0	U	5.0	U						
n-Butylbenzene	104-51-8	SW8260	ug/L	NE	5.0	U	5.0	U						
n-Propylbenzene	103-65-1	SW8260	ug/L	NE	5.0	U	5.0	U						
Naphthalene	91-20-3	SW8260	ug/L	NE	5.0	U	5.0	U						

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DATA SUMMARY TABLE
Groundwater Results
Palmer Pointe
Barrington, Rhode Island

				Sample ID	NOB-105-GW		TRIP BLANK-03		NOB-113-GW-F		NOB-121-GW-F		NOB-105-GW-F	
				Laboraory ID	P1465-03E		P1465-04A		P1465-05A		P1465-06A		P1465-07A	
				Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**										
o-Xylene	95-47-6	SW8260	ug/L	10,000	5.0	U	5.0	U						
sec-Butylbenzene	135-98-8	SW8260	ug/L	NE	5.0	U	5.0	U						
Styrene	100-42-5	SW8260	ug/L	NE	5.0	U	5.0	U						
tert-Butylbenzene	98-06-6	SW8260	ug/L	NE	5.0	U	5.0	U						
Tetrachloroethene	127-18-4	SW8260	ug/L	NE	5.0	U	5.0	U						
Tetrahydrofuran	109-99-9	SW8260	ug/L	NE	10	U	10	U						
Toluene	108-88-3	SW8260	ug/L	1	**5.0**	U	**5.0**	U						
trans-1,2-Dichloroethene	156-60-5	SW8260	ug/L	100	5.0	U	5.0	U						
trans-1,3-Dichloropropene	10061-02-6	SW8260	ug/L	NE	5.0	U	5.0	U						
Trichloroethene	79-01-6	SW8260	ug/L	5	5.0	U	5.0	U						
Trichlorofluoromethane	75-69-4	SW8260	ug/L	NE	5.0	U	5.0	U						
Vinyl chloride	75-01-4	SW8260	ug/L	2	**5.0**	U	**5.0**	U						
Xylene (Total)	1330-20-7	SW8260	ug/L	10,000	5.0	U	5.0	U						
1,2-Dibromo-3-chloropropane	96-12-8	SW8011	ug/L	0.2	0.020	U								
1,2-Dibromoethane	106-93-4	SW8011	ug/L	0.05	0.020	U								
Semivolatile Organic Compounds														
1,1´-Biphenyl	92-52-4	SW8270	ug/L	NE	10	U								
1,2,4-Trichlorobenzene	120-82-1	SW8270	ug/L	70	10	U								
1,2-Dichlorobenzene	95-50-1	SW8270	ug/L	600	10	U								
1,3-Dichlorobenzene	541-73-1	SW8270	ug/L	600	10	U								
1,4-Dichlorobenzene	106-46-7	SW8270	ug/L	75	10	U								
2,4,5-Trichlorophenol	95-95-4	SW8270	ug/L	NE	20	U								
2,4,6-Trichlorophenol	88-06-2	SW8270	ug/L	NE	10	U								
2,4-Dichlorophenol	120-83-2	SW8270	ug/L	NE	10	U								
2,4-Dimethylphenol	105-67-9	SW8270	ug/L	NE	10	U								
2,4-Dinitrophenol	51-28-5	SW8270	ug/L	NE	20	U								
2,4-Dinitrotoluene	121-14-2	SW8270	ug/L	NE	10	U								
2,6-Dinitrotoluene	606-20-2	SW8270	ug/L	NE	10	U								
2-Chloronaphthalene	91-58-7	SW8270	ug/L	NE	10	U								
2-Chlorophenol	95-57-8	SW8270	ug/L	NE	10	U								
2-Methylnaphthalene	91-57-6	SW8270	ug/L	NE	10	U								
2-Methylphenol	95-48-7	SW8270	ug/L	NE	10	U								
2-Nitroaniline	88-74-4	SW8270	ug/L	NE	20	U								
2-Nitrophenol	88-75-5	SW8270	ug/L	NE	10	U								
3,3´-Dichlorobenzidine	91-94-1	SW8270	ug/L	NE	10	U								
3-Methylphenol + 4-Methylphenol	111-11-1	SW8270	ug/L	NE	10	U								
3-Nitroaniline	99-09-2	SW8270	ug/L	NE	20	U								
4,6-Dinitro-2-methylphenol	534-52-1	SW8270	ug/L	NE	20	U								
4-Bromophenyl-phenylether	101-55-3	SW8270	ug/L	NE	10	U								
4-Chloro-3-methylphenol	59-50-7	SW8270	ug/L	NE	10	U								
4-Chloroaniline	106-47-8	SW8270	ug/L	NE	10	U								
4-Chlorophenyl-phenylether	7005-72-3	SW8270	ug/L	NE	10	U								
4-Methylphenol	106-44-5	SW8270	ug/L	NE	10	U								
4-Nitroaniline	100-01-6	SW8270	ug/L	NE	20	U								
4-Nitrophenol	100-02-7	SW8270	ug/L	NE	20	U								
Acenaphthene	83-32-9	SW8270	ug/L	NE	10	U								
Acenaphthylene	208-96-8	SW8270	ug/L	NE	10	U								
Acetophenone	98-86-2	SW8270	ug/L	NE	10	U								
Aniline	62-53-3	SW8270	ug/L	NE	10	U								
Anthracene	120-12-7	SW8270	ug/L	NE	10	U								
Azobenzene	103-33-3	SW8270	ug/L	NE	10	U								
Benzidine	92-87-5	SW8270	ug/L	NE	10	U								
Benzo(a)anthracene	56-55-3	SW8270	ug/L	NE	10	U								
Benzo(a)pyrene	50-32-8	SW8270	ug/L	0.2	**10**	U								
Benzo(b)fluoranthene	205-99-2	SW8270	ug/L	NE	10	U								
Benzo(g,h,i)perylene	191-24-2	SW8270	ug/L	NE	10	U								

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DATA SUMMARY TABLE
Groundwater Results
Palmer Pointe
Barrington, Rhode Island

				Sample ID	NOB-105-GW		TRIP BLANK-03	NOB-113-GW-F	NOB-121-GW-F	NOB-105-GW-F
				Laboraory ID	P1465-03E		P1465-04A	P1465-05A	P1465-06A	P1465-07A
				Sample Collection Date	09/30/2015		09/30/2015	09/30/2015	09/30/2015	09/30/2015
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**						
Benzo(k)fluoranthene	207-08-9	SW8270	ug/L	NE	10	U				
Benzoic acid	65-85-0	SW8270	ug/L	NE	20	U				
Benzyl alcohol	100-51-6	SW8270	ug/L	NE	10	U				
Bis(2-chloroethoxy)methane	111-91-1	SW8270	ug/L	NE	10	U				
Bis(2-chloroethyl)ether	111-44-4	SW8270	ug/L	NE	10	U				
Bis(2-chloroisopropyl)ether	39638-32-9	SW8270	ug/L	NE	10	U				
Bis(2-ethylhexyl)phthalate	117-81-7	SW8270	ug/L	6	**10**	U				
Butylbenzylphthalate	85-68-7	SW8270	ug/L	NE	10	U				
Carbazole	86-74-8	SW8270	ug/L	NE	10	U				
Chrysene	218-01-9	SW8270	ug/L	NE	10	U				
Di-n-butylphthalate	84-74-2	SW8270	ug/L	NE	10	U				
Di-n-octylphthalate	117-84-0	SW8270	ug/L	NE	10	U				
Dibenzo(a,h)anthracene	53-70-3	SW8270	ug/L	NE	10	U				
Dibenzofuran	132-64-9	SW8270	ug/L	NE	10	U				
Diethylphthalate	84-66-2	SW8270	ug/L	NE	10	U				
Dimethylphthalate	131-11-3	SW8270	ug/L	NE	1.6	J				
Fluoranthene	206-44-0	SW8270	ug/L	NE	10	U				
Fluorene	86-73-7	SW8270	ug/L	NE	10	U				
Hexachlorobenzene	118-74-1	SW8270	ug/L	1	**10**	U				
Hexachlorobutadiene	87-68-3	SW8270	ug/L	NE	10	U				
Hexachlorocyclopentadiene	77-47-4	SW8270	ug/L	NE	10	U				
Hexachloroethane	67-72-1	SW8270	ug/L	NE	10	U				
Indeno(1,2,3-cd)pyrene	193-39-5	SW8270	ug/L	NE	10	U				
Isophorone	78-59-1	SW8270	ug/L	NE	10	U				
N-Nitroso-di-n-propylamine	621-64-7	SW8270	ug/L	NE	10	U				
N-Nitrosodimethylamine	62-75-9	SW8270	ug/L	NE	10	U				
N-Nitrosodiphenylamine	86-30-6	SW8270	ug/L	NE	10	U				
Naphthalene	91-20-3	SW8270	ug/L	20	10	U				
Nitrobenzene	98-95-3	SW8270	ug/L	NE	10	U				
Pentachlorophenol	87-86-5	SW8270	ug/L	1	**20**	UJ				
Phenanthrene	85-01-8	SW8270	ug/L	NE	10	U				
Phenol	108-95-2	SW8270	ug/L	NE	10	U				
Pyrene	129-00-0	SW8270	ug/L	NE	10	U				
Pesticides/PCBs										
4,4´-DDD	72-54-8	SW8081	ug/L	NE	0.10	U				
4,4´-DDE	72-55-9	SW8081	ug/L	NE	0.10	U				
4,4´-DDT	50-29-3	SW8081	ug/L	NE	0.10	U				
Aldrin	309-00-2	SW8081	ug/L	NE	0.050	U				
alpha-BHC	319-84-6	SW8081	ug/L	NE	0.050	U				
alpha-Chlordane	5103-71-9	SW8081	ug/L	2	0.050	U				
beta-BHC	319-85-7	SW8081	ug/L	NE	0.050	U				
delta-BHC	319-86-8	SW8081	ug/L	NE	0.050	U				
Dieldrin	60-57-1	SW8081	ug/L	NE	0.10	U				
Endosulfan I	959-98-8	SW8081	ug/L	NE	0.050	U				
Endosulfan II	33213-65-9	SW8081	ug/L	NE	0.10	U				
Endosulfan sulfate	1031-07-8	SW8081	ug/L	NE	0.10	U				
Endrin	72-20-8	SW8081	ug/L	NE	0.10	U				
Endrin aldehyde	7421-93-4	SW8081	ug/L	NE	0.10	U				
Endrin ketone	53494-70-5	SW8081	ug/L	NE	0.10	U				
gamma-BHC (Lindane)	58-89-9	SW8081	ug/L	NE	0.050	U				
gamma-Chlordane	5103-74-2	SW8081	ug/L	2	0.050	U				
Heptachlor	76-44-8	SW8081	ug/L	NE	0.050	U				
Heptachlor epoxide	1024-57-3	SW8081	ug/L	NE	0.050	U				
Methoxychlor	72-43-5	SW8081	ug/L	NE	0.50	U				
Toxaphene	8001-35-2	SW8081	ug/L	NE	5.0	U				
Aroclor-1016	12674-11-2	SW8082	ug/L	0.5	**1.0**	U				

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Palmer Pointe
Barrington, Rhode Island

				Sample ID	NOB-105-GW		TRIP BLANK-03		NOB-113-GW-F		NOB-121-GW-F		NOB-105-GW-F	
				Laboraory ID	P1465-03E		P1465-04A		P1465-05A		P1465-06A		P1465-07A	
				Sample Collection Date	09/30/2015		09/30/2015		09/30/2015		09/30/2015		09/30/2015	
Parameter	**CAS #**	**Method**	**Report Units**	**RIDEM GA Groundwater Objectives[1]**										
Aroclor-1221	11104-28-2	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1232	11141-16-5	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1242	53469-21-9	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1248	12672-29-6	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1254	11097-69-1	SW8082	ug/L	0.5	**1.0**	U								
Aroclor-1260	11096-82-5	SW8082	ug/L	0.5	**1.0**	U								
Total Petroleum Hydrocarbons														
Gasoline Range Organics	8888-88-88	GRO	ug/L	NE	100	U								
Extractable Total Petroleum Hydrocarbon	ETPH	TPH (C9-C36)	mg/L	NE	0.20	U								
Metals and Cyanide														
Antimony	7440-36-0	SW6020	ug/L	6	2.0	U			2.0	U	2.0	U	2.0	U
Arsenic	7440-38-2	SW6020	ug/L	NE	0.40	J			0.74	J	0.61	J	0.34	J
Barium	7440-39-3	SW6020	ug/L	2,000	21				63		16		21	
Beryllium	7440-41-7	SW6020	ug/L	4	1.0	U			1.0	U	1.0	U	1.0	U
Cadmium	7440-43-9	SW6020	ug/L	5	0.17	J			1.0	U	1.0	U	0.17	J
Chromium	7440-47-3	SW6020	ug/L	100	0.54	J			0.87	J	0.53	J	0.38	J
Copper	7440-50-8	SW6020	ug/L	NE	3.1				2.2		1.6	J	3.2	
Lead	7439-92-1	SW6020	ug/L	15	0.44	J			0.64	J	0.20	J	0.20	J
Manganese	7439-96-5	SW6020	ug/L	NE	950				350		72		1200	
Nickel	7440-02-0	SW6020	ug/L	100	7.5				2.9		2.9		7.2	
Selenium	7782-49-2	SW6020	ug/L	50	5.0	U			5.0	U	5.0	U	5.0	U
Silver	7440-22-4	SW6020	ug/L	NE	1.0	U			1.0	U	1.0	U	1.0	U
Thallium	7440-28-0	SW6020	ug/L	2	1.0	U			1.0	U	1.0	U	1.0	U
Vanadium	7440-62-2	SW6020	ug/L	NE	5.0	U			5.0	U	5.0	U	5.0	U
Zinc	7440-66-6	SW6020	ug/L	NE	9.9				5.9		5.5		9.2	
Mercury	7439-97-6	SW7470	ug/L	2	0.20	U			0.20	U	0.20	U	0.20	U
Cyanide	57-12-5	SW9012	ug/L	200	5	U								

[1] State of Rhode Island and Providence Plantations Department of Environmental Management (RIDEM) Rules and Regulations for the Investigation and Remediation of Hazardous Material Releases (Remediation Regulations), DEM-DSR-01-93, February 2004, Table 3, GA Groundwater Objectives.
BOLD - Reporting Limit exceeds Regulatory Limit
Bold /Shaded - Result exceeds Regulatory Limit

U-not detected; UJ-not detected, reporting limit estimated;J-estimated; R-rejected

Data Review Qualification Actions

Case: 0153S

SDG: P1453, P1454, P1456, P1457, P1465, P1467

SDG	Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
SOILS						
P1453	Pest	alpha-chlordane	NOB-101-0-2, NOB-114-0-2	compound quantitation	J lab P flag data	difference in concentration between 2 columns is >40%
P1453	Metals	Barium, Beryllium, Chromium	All in SDG	Lab Blank	Remove B flag	All results > RL
P1453	Metals	Antimony	All in SDG	Matrix Spike	J/UJ	low % recovery
P1453	Metals	Barium	All in SDG	Serial dilution	J/UJ	criteria not met
P1456	VOCs	1,1,1-Trichloroethane, 1,1-dichloroethane, 1,1-dichloropropene, 1,2,4-trichlorobenzene, 4-isopropyltoluene, n-butylbenzene, trichloroethene	NOB-103-0-2	Matrix Spike	J/UJ	low % recovery
P1456	Pest	alpha-chlordane and heptachlor epoxide	NOB-121-0-2	compound quantitation	J lab P flag data	difference in concentration between 2 columns is >40%
P1456	Metals	Barium, Beryllium, Chromium	All in SDG	Lab Blank	Remove B flag	All results > RL or > blank value
P1456	Metals	Antimony	All in SDG	Matrix Spike	J/UJ	low % recovery
P1456	Metals	Barium and Nickel	All in SDG	Serial dilution	J/UJ	criteria not met
P1456	Hex. Cr	Hexavalent chromium	All in SDG	Matrix Spike	J/UJ	low % recovery
P1467	VOCs	Methylene chloride	NOB-119-0-2, DUP-02, NOB-109-0-2, DUP-01	Trip Blank	ND at RL	TB 18 ug/kg
P1467	VOCs	1,2,3-Trichlorobenzene, 1,2,4-trichlorobenzene, 1,2-dichlorobenzene, 1,3-dichlorobenzene, 1,4-dichlorobenzene, 4-chlorotoluene, 4-isopropyltoluene, hexachlorobutadiene, m,p-xylene, n-butylbenzene, sec-butylbenzene, trichloroethene, xylene	NOB-119-0-2	Matrix Spike	J/UJ	low % recovery
P1467	VOCs	1,1-dichloropropene, 1,2,4-trichlorobenzene, benzene, carbon disulfide, trichloroethene, 1,2,3-trichlorobenzene, 1,2-dichlorobenzene	NOB-109-0-2	Matrix Spike	J/UJ	low % recovery
P1467	ETPH	Total Petroleum Hydrocarbons	NOB-109-0-2	Matrix Spike	J	RPD out
P1467	Pest	alpha-BHC, gamma-BHC, DDE, alpha-chlordane, dieldrin, endosuflan sulfate, endrin, endrin ketone, gamma-chlordane, heptachlor epoxide	NOB-119-0-2	Matrix Spike	J/UJ	low % recovery
P1467	Pest	Endrin aldehyde	NOB-119-0-2	Matrix Spike	J/R	0% recovery

Data Review Qualification Actions

Case: 0153S

SDG: P1453, P1454, P1456, P1457, P1465, P1467

SDG	Parameter	Analyte	Samples	Evaluation Criteria	Action Needed	Comments
P1467	Pest	DDE, DDT, alpha-BHC, beta-BHC, delta-BHC, dieldrin, endosulfan sulfate, endrin, endrin ketone, gamma-BHC, gamma-chlordane, hepatchlor epoxide, methoxychlor	NOB-109-0-2	Matrix Spike	J/UJ	low % recovery
P1467	Pest	alpha-chlordane, endrin aldehyde	NOB-109-0-2	Matrix Spike	J/R	recovery <20%
P1467	Pest	alpha-chlordane	NOB-120-0-2, NOB-122-0-2, DUP-02, NOB-108-0-2, NOB-109-0-2	compound quantitation	J lab P flag data	difference in concentration between 2 columns is >40%
P1467	Pest	alpha-chlordane and heptachlor epoxide	NOB-110-0-2, NOB-111-0-2, DUP-01	compound quantitation	J lab P flag data	difference in concentration between 2 columns is >40%
P1467	Metals	Chromium, Nickel	All in SDG	Lab Blank	Remove B flag	All results >RL or blank value
P1467	Metals	Mercury	NOB-119-0-2	Lab Duplicate	J detect	RPD out
P1467	Hex. Cr	Hexavalent chromium	NOB-119-0-2	Matrix Spike	J/UJ	low % recovery
GROUNDWATER						
P1454	ETPH	Total Petroleum Hydrocarbons	WELL-2	Matrix Spike	J	RPD out
P1454	SVOCs	Benzidine	WELL-2	Matrix Spike	UJ	low recovery and RPD out
P1454	Pest	Endrin ketone	WELL-2	Matrix Spike	UJ	low recovery
P1454	Metals	Thallium	WELL-2	Lab Blank	Remove B flag	Result >blank value
P1454	Metals	Thallium	WELL-2-F	Lab Blank	ND at RL	Result<blank value
P1457	Metals	Thallium	WELL-1, WELL-1-F	Lab Blank	ND at RL	Result<blank value
P1457	Metals	Thallium	DUP-01-GW	Lab Blank	Remove B flag	Result >blank value
P1457	Metals	Zinc	DUP-01-GW, WELL-1	Field duplicate	J	%RPD out
P1465	SVOCs	Pentachlorophenol	All in SDG	LCS	UJ	low recovery

SDG	Samples
P1453 (soils)	NOB-101, 114, 115, 116, 117, 118, and Trip Blank-02 (each NOB-2 depths)
P1454 (GW)	WELL-2, Trip Blank-02 (each well - total and filtered)
P1456 (soils)	NOB-102, 103, 104, 105, 106, 107, 113, 121, DUP-03, Trip Blank-01 (each NOB-2 depths)
P1457 (GW)	WELL-1, DUP-01-GW, Trip Blank-01 (each well total and filtered)
P1465 (GW)	NOB-105-GW, NOB-113-GW, NOB-121-GW, Trip Blank-03 (each well totla and filtered)
P1467 (soils)	NOB-108, 109, 110, 111, 112, 119, 120, 122, 123, 124, DUP-02, DUP-03, Trip Blank-03 (each NOB-2 depths)

Generic Data Review Checklist

Project: **Palmer Pointe**
Project #: **80108**
Case#: **0153S**
Date: **10/13-14/2015**
Methods: **8260, 8011 (GW only), 8270, 8081, 8082, 8015B, 6010, 7471/7470, 7196 (soil only), 9012**
Laboratory: **Spectrum Analytical**
SDG: **P1453, P1454, P1456, P1457, P1465, P1467**
Reviewer: **Gail DeRuzzo**

1. Case Narrative and Data Package Completeness (COC and Analyte List Review)

Soils – P1453, P1456, P1467
P1453: NOB-101-0-2 and 8-10, NOB-115-0-2 and 10-12, NOB-114-0-2 and 8-10, NOB-116-0-2 and 11-13, NOB-117-0-2 and 5-7, NOB-118-0-2 and 10-12, TB-02.
P1456: NOB-105-0-2, and 7-9, NOB-104-0-2 and 7-9, NOB-103-0-2 and 13-15, NOB-102-0-2 and 7-9, NOB-113-0-2 and 12-14, NOB-121-0-2 and 12-14, NOB-106-0-2 and 12-14, NOB-107-0-2 and 14-16, FD-03, and Trip Blank
P1467: NOB-124-0-2, and 7-9, NOB-112-0-2 and 12-14, NOB-120-0-2 and 8-10, NOB-119-0-2 and 5-7, NOB-122-0-2 and 13-15, DUP-02, NOB-123-0-2 and 5-7, NOB-108-0-2 and 10-12, NOB-109-0-2 and 8-12, NOB-110-0-2 and 5-7, NOB-111-0-2 and 7-9, DUP-01, and Trip Blank-03

GW – P1454, P1457, P1465
P1454: WELL-2/F, Trip Blank-2
P1457: WELL-1/F, DUP-01-GW/F, Trip Blank
P1465: NOB-113-GW/F, NOB-121-GW/F, NOB-105-GW/F, Trip Blank-3

2. Holding Time and Sample Preservation Compliance

OK

3. Lab and Field Blanks

P1453: TB-02 – MeCl2 – 17 ug/kg – associated samples ND – no action.
P1453: Metals – B flags on Ba (0.038) RL=10, Be (0.0047) RL=0.25, Cr (0.061) RL=1 all <RL; Ba, Be, and Cr samples >RL – remove B.
P1456: Trip Blank – ND
P1456: Metals – B flags on Ba (0.119) RL=10, Be (0.007) RL=0.25, Cr (0.088) RL=1, and Ni (0.07) RL=2.5; <RL. Most sample results >RL – remove B. Ba samples NOB-106 0-2 J, FD-03 J and Be samples NOB-105 7-9 J and NOB-121-12-14 J – leave J as results are greater than blank value.
P1467: Trip Blank-03 – MeCl2 – 18 ug/kg – make associated samples ND if detected at levels <blank value. NOB-119-002, DUP-02, NOB-109-0-2, DUP-01
P1467: Metals – B flags on Cr at 0.063 (RL=1) and Ni at 0.043 (RL=2.5) instr. 1, batch 1. Instr. 2, batch 1- B flag on Cr only at 0.038 (RL=1). Instr. 3, batch 2- Cr only at 0.045 (RL=1). Instr. 2, batch 2 – Sb at 0.45 (RL=1), Ba at 0.036 (RL=10), Cr at 0.028 (RL=1), Pb at 0.21 (RL=0.5). All results >RL except: NOB-108-0-2 for Ni – leave J

P1454: Trip Blank-2 – ND

P1454: Metals – B flag on Tl (0.07) RL=1 WELL-2 – Remove B; J result. WELL-2F – ND at RL U.
P1457: Trip Blank – ND
P1457: Metals – B flag on Tl (0.07) RL=1 WELL-1, WELL-1-F – ND at RL; DUP-01-GW remove B, J result.
P1465: Trip Blank 3 – ND
P1465: Metals – Tl 0.07 (RL=1) – Samples all ND – no action.

4. Laboratory Control Samples

P1465: SVOCs – high for Benzo(a)anthracene at 112% with criteria of (55-110), Chrysene at 110% with criteria of (55-110), low for Pentachlorophenol at 32% and 20% with criteria of (40-115). J BAA and Chrysene if detected (ND – no action); J/UJ PCP.

P1467: SVOCs – high for benzo(a)anthracene at 112% with criteria of (55-110). Samples ND – no action

5. Field Duplicate Precision

Soils: DUP-01/NOB-111 0-2 – in control
DUP-02/NOB-122 0-2 – in control
DUP-03/NOB-106 0-2 – in control

GW: DUP-01/WELL-1 – Zn - J
DUP-01-F/WELL-1-F – in control

6. Laboratory Duplicate Precision

P1453: Metals – NOB-118-10-12 – ok
P1456: Metals – NOB-103-0-2 – ok
P1456: Hex. Cr – NOB-103-0-2 – ok
P1467: Metals – NOB-109-0-2 – Hg RPD out – J detect; NOB-119-0-2 – ok
P1467: Hex Cr – NOB-109-0-2 and NOB-119-0-2 ok

P1454: Metals – WELL-2 - ok

7. Matrix Spikes

P1453: Metals – NOB-118-10-12 – Sb low – J/UJ Sb data
P1456: VOCs – NOB-103-0-2 – several analytes just out low. J/UJ in sample. 1,1,1-Trichloroethane at 66% with criteria of (70-135), 1,1-Dichloroethane at 74% with criteria of (75-125), 1,1-Dichloropropene at 69% with criteria of (70-135), 1,2,4-Trichlorobenzene at 56% with criteria of (65-130), 4-Isopropyltoluene at 71% with criteria of (75-135), n-Butylbenzene at 64% with criteria of (65-140) and Trichloroethene at 64% with criteria of (75-125)
P1456: DRO, SVOCs, PCBs, GRO – NOB-103-0-2 – in control
P1456: Pest – NOB-103-0-2 – RPD out for Endrin aldehyde – J if detected in sample (all ND – no action)
P1456: Metals – NOB-103-0-2 – Sb low – J/UJ Sb data
P1456: Hex Cr – NOB-103-0-2 – low – J/UJ Hex Cr data
P1467: VOCs – NOB-119-0-2 – is low for several analytes: J/UJ in sample.

NOB-119-0002 (P1467-07CMS), recovery is below criteria for 1,2,3-Trichlorobenzene at 46% with criteria of (60-135), 1,2,4-Trichlorobenzene at 46% with criteria of (65-130), 1,2-Dichlorobenzene at 67% with criteria of (75-120), 1,3-Dichlorobenzene at 66% with criteria of (70-125), 1,4-Dichlorobenzene at 65% with criteria of (70-125), 4-Chlorotoluene at 71% with criteria of (75-125), 4-Isopropyltoluene at 63% with criteria of (75-135), Hexachlorobutadiene at 37% with criteria of (55-140), m,p-Xylene at 80% with criteria of (80-125), n-Butylbenzene at 52% with criteria of (65-140), sec-Butylbenzene at 64% with criteria of (65-130), Trichloroethene at 64% with criteria of (75-125) and Xylene (Total) at 81% with criteria of (83-125).

P1467: VOC – NOB-109-0-2 – several analytes low – J/UJ in sample. 1,1-Dichloropropene at 70% with criteria of (70-135), 1,2,4-Trichlorobenzene at 65% with criteria of (65-130), Benzene at 75% with criteria of (75-125), Carbon disulfide at 30% with criteria of (45-160) RPD also out and Trichloroethene at 64% with criteria of (75-125). 1,2,3-Trichlorobenzene at 51% with criteria of (60-135), 1,2-Dichlorobenzene at 73% with criteria of (75-120)

P1467: SVOC – NOB-119-0-2 – phenol high and RPD out for 2,4-dinitrophenol – sample ND for all phenols – no action

P1467: GRO, PCB, Metals – NOB-119-0-2 and NOB-109-0-2 – in control

P1467: DRO – NOB-119-0-2 – in control

P1467: SVOC, Hex. Cr – NOB-109-0-2 – in control

P1467: - Pest – NOB-119-0-2 – high on rear for gamma-chlordane; low on front for alpha-BHC, gamma-BHC, DDE, alpha-chlorane, dieldrin, endosulfan sulfate, endrin, endrin ketone gamma-BHC, gamma-chlordane, and heptachlor epoxide. J/UJ in sample. 0% recovery for endrin aldehyde on rear and front. J/R endrin aldehyde.

P1467: Pest – NOB-109-0-2 – low on rear column: DDE, alpha-chlordane, endrin ketone, gamma-chlordane.
Low on front column: DDE, DDT, alpha-BHC, beta-BHC, delta-BHC, dieldrin, endosulfan sulfate, endrin, endrin ketone, gamma-BHC, gamma-chlordane, heptachlor epoxide, methoxychlor; DDD RPD also out. – J/UJ for %recoveries out. DDD RPD J detects in sample – ND – no action.
<20% - alpha-chlordane (front), endrin aldehyde (both) – J/R in sample.

P1467: DRO – NOB-109-0-2 – RPD out – J detect

P1467: Hex Cr – NOB-119-0-2 low – J/UJ in this sample only (other FD acceptable).

P1454: WELL-2 –VOC, GRO, PCB, 8011, metals – in control

P1454: WELL-2 – SVOC – several analytes out high – ND – no action. Benzidine out low and RPD out- UJ

P1454: WELL-2 – Pest – endrin ketone both col. Low – UJ

P1454: WELL-2 – TPH-DRO – RPD out - J

8. Surrogate Spikes

P1453: VOCs – NOB-116-0-2 – high for 1,2-DCA-d4 (111% vs. 110 UCL) [one surrogate failure acceptable in SOP]. Sample ND – no action.

P1453: Pest – DCB out low in front column for most samples: NOB-101-0-2, NOB-115-10-12, NOB-114-0-2, NOB-116-0-2, NOB-116-11-13, NOB-117-0-2, NOB-117-5-7, and NOB-118-10-12. [one surrogate failure acceptable in SOP] – Second surrogate acceptable and acceptable on back column – no action.
P1453: PCB – DCB out low on rear column and front column for NOB-101-0-2. Second surrogate acceptable – no action.
P1467: SVOC phenol-d5 out high in NOB-120-0-2 and NOB-119-0-2 – samples ND for phenols – no action
P1467: Pest – DCB out low in front column for most samples: NOB-124-7-9, NOB-112-0-2, NOB-120-0-2, NOB-120-8-10, NOB-119-0-2, NOB-119-5-7, NOB-122-0-2, NOB-108-0-2, NOB-109-0-2, NOB-109-8-10, NOB-110-5-7, NOB-111-0-2. [one surrogate failure acceptable in SOP] – Second surrogate acceptable and acceptable on back column – no action. DBC out low in front and rear column: NOB-123-5-7, NOB-108-10-12. [one surrogate failure acceptable in SOP]
P1467: PCBs – DCB low in NOB-108-10-12 [one surrogate failure acceptable in SOP]

P1454: SVOC NB-d5 – out high WELL-2 – associated analytes ND or already J – no action

9. Internal Standards
OK – per narrative

10. Performance Evaluation Samples
NA

11. Reporting Limits
P1453: Pest and PCBs – samples analyzed at dilution: NOB-115-0-2, NOB-118-0-2, NOB-118-10-12.
P1456: Pest – analyzed at dilution: NOB-121-0-2
P1467: Pest – analyzed at dilution: NOB-123-0-2

12. Calibration Issues
OK – per narrative

13. Other
P1453, P1456, P1467: Pest – P flags - %D between 2 columns >40% - J flag P flagged data

Serial Dilution:

P1453: Metals – NOB-118-10-12 – Barium out – J/UJ flag all Ba data
P1456: Metals – NOB-103-0-2 – Ba and Ni out – J/UJ flag all Ba and Ni data

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Page 1 of 2

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering Inc
585 Middlesex St
Lowell MA 01851

Telephone #: 978 683-0841
Project Mgr.

Invoice To: Same

P.O. No.: RQN:

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington, RI State: RI
Sampler(s): AR/AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= ICE

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

P1453 G=Grab C=Composite

List preservative code below: 9/11 11 12 12 12 12 12 12

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other

State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	TPH-GRO/DRO	Pest./PCB	Metals (RT)	Hex. Cr.	Cyanide	
01	NOB-101-0002	9/29/15	1350	G	S	4	2			X	X	X	X	X	X	X	
02	NOB-101-0810	9/29/15	1410							X	X	X	X	X	X	X	
03	NOB-115-0002	9/29/15	1425							X	X	X	X	X	X	X	
04	NOB-115-1012	9/29/15	1440							X	X	X	X	X	X	X	
05	NOB-114-0002	9/29/15	1500							X	X	X	X	X	X	X	
06	NOB-114-0810	9/29/15	1505							X	X	X	X	X	X	X	
07	NOB-116-0002	9/29/15	1530							X	X	X	X	X	X	X	
08	NOB-116-1113	9/29/15	1540							X	X	X	X	X	X	X	
09	NOB-117-0002	9/29/15	1600							X	X	X	X	X	X	X	
10	NOB-117-0507	9/29/15	1610							X	X	X	X	X	X	X	

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/30/15	1145	
[signature]	[signature]	9/30/15	13:00	

☐ EDD Format
☐ E-mail to

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.7°C, 3.6°C

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Page 2 of 2

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering, 585 Middlesex St, Lowell, MA 01851
Telephone #: 978-683-0841
Project Mgr. Tracy Costa

Invoice To: Same
P.O. No.: _____ RQN: _____

Project No.: 80108.2
Site Name: Palmer Paint
Location: Barrington, RI State: -
Sampler(s): AR/AO

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= Ice

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1453 G=Grab C=Composite

12 List preservative code below: ~~9/11~~ 11/12 12 12 12 12 12

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	TPH-GRO-DRO	Pest/PCB	Metals (RI)	Hex Cr.	Cyanide			
11	NOB-118-0002	9/29/15	1630	G	S	4	2			X	X	X	X	X	X	X			
12	NOB-118-1012	9/29/15	1640	G	S	4	2			X	X	X	X	X	X	X			
13	Trip Blank-02	9/29/15	MPG	G		2				X									

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/30/15	1145	
[signature]	[signature]	9/30/15	13:00	

☐ EDD Format _____
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.7°C, 3.6°C

SPECTRUM ANALYTICAL, INC.
Featuring
HANIBAL TECHNOLOGY

Page 1 of 1

CHAIN OF CUSTODY RECORD

☐ 11 Almgren Drive, Agawam, MA 01001, (413) 789-9018
☐ 8405 Benjamin Road, Ste A, Tampa, FL 33634, (813) 888-9507
☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering Inc
585 Middlesex St
Lowell MA 01851

Telephone #: 978-683-0881
Project Mgr. Tracey Costa

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= Ice 12= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1454 G=Grab C=Composite

List preservative code below: 2 | 2 | 2/11 | 11 | 7 | 5

Analyses: VOCs; EDB/DBCP; TPH-GRO/DRO; Pest./PCB; Metals (RI DEM); Cyanide

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCs	EDB/DBCP	TPH-GRO/DRO	Pest./PCB	Metals (RI DEM)	Cyanide	QA/QC Reporting Notes
01	WELL-2	9/29/15	1310		GW	27	15		9	X	X	X	X	X	X	MS/MSD
02	Trip Blank-02	9/29/15	1700		W	2				X						

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/30/15	1145	
[signature]	[signature]	9/30/15	13:20	4.6°C

☐ EDD Format _____
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☑ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

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☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering
585 Middlesex St
Lowell, MA 01851

Telephone #: 978-683.0851
Project Mgr. T. COSTA

Invoice To: Same

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: PALMER POINT
Location: BARRINGTON State: RI
Sampler(s): JNB/AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= _____

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1455 G=Grab C=Composite

List preservative code below: 9 11 - -

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	Pest./PCB	Metals (RCI)	Hex. Chrom	Cyanide	GRO/DRO		
01	NBS-105 0709	9/28/15	1440	G	S	4	2	-	-	X	X	X	X	X	X	X		
02	NOB-104 0002		1455							X	X	X	X	X	X	X		
03	NOB-104 0709		1505							X	X	X	X	X	X	X		
04	NOB-103 0002		1515							X	X	X	X	X	X	X		
05	NOB-103 1315		1530							X	X	X	X	X	X	X		
06	NOB-102 0002		1600							X	X	X	X	X	X	X		
07	NOB-102 0709		1620							X	X	X	X	X	X	X		
04	MS/MSD (103 0002)		1515							X	X	X	X	X	X	X		
08	Trip Blank	9/28/15	0900	V		2				X								

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/28/15	1212	
[signature]	Agnes Huntley	9/30/15	13:00	

☐ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.0°C, 3.0°C

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CHAIN OF CUSTODY RECORD

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☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis
585 Middlesex St
Lowell MA 01851

Telephone #:
Project Mgr. T. Costa

Invoice To: Same

P.O. No.: RQN:

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): JNB / AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= 12=

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= X2= X3=

P1455 G=Grab C=Composite

List preservative code below: 9 | 11 | – | –

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other

State-specific reporting standards:

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	PCB/PCB	Metals (RCP)	Hex Cr.	Cyanide	GRO/DRO		
09	NOB-113 0002	9/28/15	900	G	S	4	2	–	–	X	X	X	X	X	X	X		
10	NOB-113 1214		1030							X	X	X	X	X	X	X		
11	NOB-121 0002		1110							X	X	X	X	X	X	X		
12	NOB-121 1214		1140							X	X	X	X	X	X	X		
13	NOB-106 0002		1230							X	X	X	X	X	X	X		
14	NOB-106 1214		1245							X	X	X	X	X	X	X		
15	FD-03 ~~2400~~		2400							X	X	X	X	X	X	X		
16	NOB-107 0002		1315							X	X	X	X	X	X	X		
17	NOB-107 1416		1330							X	X	X	X	X	X	X		
18	NOB-105 0002		1425							X	X	X	X	X	X	X		

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/29/15	1212	
[signature]	[signature]	9/30/15	13:00	

☐ EDD Format Excel
☐ E-mail to

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

4.0°C, 3.0°C

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CHAIN OF CUSTODY RECORD

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Special Handling:

TAT- Ind icate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering Inc.
585 Middlesex St
Lowell, MA 01851

Telephone #: 978-683-0891
Project Mgr. T. Costa

Invoice To: Nobis

P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington, RI State: RI
Sampler(s): AR / AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= ice 12= _____

List preservative code below: 2 | 11 | 2 | 11 | 4 | 5 | 2/11

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

P1457 G=Grab C=Composite

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	EDB/DBCP	Pest/PCB	Metals (CR, Total Pb, Ni)	Cyanide	DRO/GRO
01	Well-1	9/28/15	1255		GW	9	5	–	3	X	X	X	X	X	X	X
02	DUP-01-GW	9/28/15	1255		GW	9	5	–	3	X	X	X	X	X	X	X
03	Trip Blank	9/29/15	1030			2	–	–	–	X						

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	9/29/15	1212	
[signature]	Agnes Khuthy	9/30/15	13:00	

☐ EDD Format Excel / PDF Report
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

2.8°C

SPECTRUM ANALYTICAL, INC.
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Page 1 of 1

CHAIN OF CUSTODY RECORD

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☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Lobis Engineering, 585 Middlesex St, Lowell MA 01851
Telephone #: 978 683 0891
Project Mgr. ~~G. Deff~~ T. Costa

Invoice To: Same
P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR/AG

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Lab Id: (Q1465)	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	EDB/DBCP	Pest/PCB	Metals (CEP) Diss./Total	Cyanide	TPH DRO/GRO	
	NOB-113-GW	9/30/15	1010	G	GW	9	5	-	3	X	X	X	X	X	X	X	
	NOB-121-GW	9/30/15	1340	G	GW	9	5	-	3	X	X	X	X	X	X	X	
	NOB-105-GW	9/30/15	1610	G	GW	9	5	-	3	X	X	X	X	X	X	X	
	Trip Blank-03	9/30/15	1630	G	W	2				X							

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	10/1/15	0945	2.2°
				2.6°

☐ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

SPECTRUM ANALYTICAL, INC.
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HANIBAL TECHNOLOGY

Page 1 of 3

CHAIN OF CUSTODY RECORD

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☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering, 585 Middlesex St, Lowell, MA
Telephone #: 978 683 0891
Project Mgr. T. Costa

Invoice To: Same
P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= ICE

List preservative code below: 11/9 | 12 | 11/12 | 12 | 12 | 12 | 12

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

Pg 1 of 7

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	TPH-GRO/DRO	Pest./PCB	Metals (RCI)	Hex Cr.	Cyanide	QA/QC Reporting Notes
01	NOB-124-0002	9/30/15	0820	G	SO	4	2			X	X	X	X	X	X	X	
02	NOB-124-0709	9/30/15	0830							X	X	X	X	X	X	X	
03	NOB-112-0002	9/30/15	0900							X	X	X	X	X	X	X	
04	NOB-112-1214	9/30/15	0910							X	X	X	X	X	X	X	
05	NOB-120-0002	9/30/15	0925							X	X	X	X	X	X	X	
06	NOB-120-0810	9/30/15	0930							X	X	X	X	X	X	X	
07	NOB-119-0002	9/30/15	0950			12	6			X	X	X	X	X	X	X	MS/MSD
08	NOB-119-0507	9/30/15	1025			4	2			X	X	X	X	X	X	X	
09	NOB-122-0002	9/30/15	1045							X	X	X	X	X	X	X	
10	NOB-122-1315	9/30/15	1100							X	X	X	X	X	X	X	

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	10/1/15	0945	2.5°, 3.0°
				2.0°

☒ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☒ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

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CHAIN OF CUSTODY RECORD

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☐ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering, 585 Middlesex St, Lowell, MA 01851
Telephone #: 978-683-0881
Project Mgr. T. Costa

Invoice To: Same
P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= _____ 12= _____

List preservative code below:

QA/QC Reporting Notes:

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

Lab Id: (91967)	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOC	SVOC	TPH-GRO/DRO	Pest/PCB	Metals (RI)	Hex Cr.	Cyanide	
11	DUP-02	9/30/15	1050			4	2			X	X	X	X	X	X	X	
12	NOB-123-0002	9/30/15	1115			↓	↓			X	X	X	X	X	X	X	
13	NOB-123-0507	9/30/15	1120							X	X	X	X	X	X	X	
14	NOB-108-0002	9/30/15	1150							X	X	X	X	X	X	X	
15	NOB-108-1012	9/30/15	1155							X	X	X	X	X	X	X	
16	NOB-109-0002	9/30/15	1250			12	6			X	X	X	X	X	X	X	MS/MSD
17	NOB-109-0810	9/30/15	1310			4	2			X	X	X	X	X	X	X	
18	NOB-110-0002	9/30/15	1330							X	X	X	X	X	X	X	
19	NOB-110-0507	9/30/15	1340							X	X	X	X	X	X	X	
20	NOB-111-0002	9/30/15	1400							X	X	X	X	X	X	X	

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	10/1/15	0945	2.5°, 3.0°
				2.0°

☒ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

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Page 3 of 3

CHAIN OF CUSTODY RECORD

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☒ 646 Camp Avenue, N Kingstown, RI 02852, (401) 732-3400

Special Handling:

TAT- Indicate Date Needed: _____
- All TATs subject to laboratory approval. Min. 24-hour notification needed for rushes.
- Samples disposed of after 60 days unless otherwise instructed.

Report To: Nobis Engineering Inc, 585 Middlesex St, Lowell, MA 01851
Telephone #: 978-683-0591
Project Mgr. T. Coyne

Invoice To: Same
P.O. No.: _____ RQN: _____

Project No.: 80108.02
Site Name: Palmer Point
Location: Barrington State: RI
Sampler(s): AR

1=$Na_2S_2O_3$ 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=Ascorbic Acid 7=CH_3OH
8= $NaHSO_4$ 9= Deionized Water 10=H_3PO_4 11= MeOH 12= Ice

DW=Drinking Water GW=Groundwater WW=Wastewater
O=Oil SW= Surface Water SO=Soil SL=Sludge A=Air
X1= _____ X2= _____ X3= _____

G=Grab C=Composite

List preservative code below: 11/9 | 12 | 11/12 | 12 | 12 | 12 | 12

QA/QC Reporting Notes:

QA/QC Reporting Level
☐ Level I ☐ Level II
☐ Level III ☐ Level IV
☐ Other _____

State-specific reporting standards: _____

P1467

Lab Id:	Sample Id:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	VOCs	SVOCs	TPH-GRO-DRO	Pest./PCB	Metals (RI)	Hex. Cr.	Cyanide	QA/QC Reporting Notes
21	Dup-01	9/30/15	1405	~~S~~G	SO	4	2			X	X	X	X	X	X	X	
22	NOB-111-0709	9/30/15	1410	G	SO	4	2			X	X	X	X	X	X	X	
23	Trip Blank-03	9/30/15	1600	G	SO	3	—			X							Trip Blank

Relinquished by:	Received by:	Date:	Time:	Temp°C
[signature]	[signature]	10/1/15	0945	2.5°-3.0°
				2.0°C

☒ EDD Format Excel
☐ E-mail to _____

Condition upon receipt: Custody Seals: ☐ Present ☐ Intact ☐ Broken
☐ Ambient ☐ Iced ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen