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June 9, 2016

Mr. Jason Kam
North Carolina Department of Environmental Quality
Division of Waste Management,
Inactive Hazardous Sites Branch - Superfund Section
Pre-Regulatory Landfill Unit
1646 Mail Service Center
Raleigh, North Carolina 27699-1646

RE: Remedial Investigation – Waste Delineation
Task Order 5903DP-2
Old Raleigh #9 – Howard Johnson Crabtree Landfill
4100 Glenwood Avenue
Raleigh, Wake County, North Carolina
ID No. NCD980845903

Dear Mr. Kam:

ATC Associates of North Carolina, P.C. (ATC) is submitting this letter report in response to the Pre-Regulatory Landfill Unit's (Unit) May 24, 2016 approval referencing *Task Order 5903DP-2*. This report documents field screening of above-ground landfill gas within the waste boundary, advancement of soil borings for waste boundary delineation, and advancement of soil borings for waste characterization. The work was performed in accordance with ATC's Workplan and Cost Proposal dated January 27, 2016, and Standard Operating Procedures (SOPs) and Quality Assurance (QA) Manual dated April 17, 2013.

1.0 SURFACE VAPOR SURVEY

On March 10, 2016, ATC conducted a surface vapor survey at 20 locations (SV-1 through SV-20). The spacing of the locations was on an approximate 100-foot grid within the waste disposal area. The field measurements were collected approximately 3 inches above the ground and their approximate locations were based on the subsurface waste boundaries. A site map is included as ***Figure 1*** and survey locations are presented on the attached ***Figure 2***. To perform the testing, ATC used a GEM 2000+ (GEM), MiniRAE photoionization detector (PID), and hygrometer to measure target landfill gases. Landfill gas measurements collected from each location include methane, oxygen, carbon dioxide, temperature, humidity, barometric pressure, hydrogen sulfide, and volatile organic compounds (VOCs).

Prior to conducting the surface vapor survey, ATC calibrated each instrument in the field per the manufacturer's specifications and conducted bump tests before, periodically during, and after the landfill gas survey to insure proper calibration. Calibration procedures were documented in the field as well as information detailing the equipment manufacturer, model number, serial number, date of factory calibration and maintenance, set up parameters, measurement units, detection limits, and types of calibration gas. In addition, field logs were kept that included the name of the person conducting the evaluation, a description of weather conditions, and alternate forms of cross-contamination, as well as hourly ambient temperature, humidity, and barometric pressure readings. Note that the survey was conducted under dry and calm weather conditions. Landfill surface vapor survey data are summarized in ***Table 1*** and the field logs, field notes, and instrument calibration logs are included in ***Appendix A***.

2.0 WASTE DISPOSAL BOUNDARY DELINEATION

From February 29 to March 3, 2015, a total of 38 soil borings (B-1 through B-16 and their offsets) were advanced at the site. Soil boring locations and the waste disposal boundary are depicted on ***Figure 3***. The borings were advanced at locations based on the February 2015 geophysical assessment. The first 5 feet of each boring was advanced using a hand auger in order to avoid potential unmarked utility lines. Below a depth of 5 feet below ground surface (bgs), solid-stem auger drilling techniques were utilized and auger cuttings were observed to determine waste presence, depth, and thickness. Borings were advanced to 10 feet bgs, or until waste thickness or refusal was determined. Waste delineations borings depths ranged from 6 feet to 30 feet bgs and are presented on ***Figure 4***. Lithologic descriptions, waste depth and thickness, and field readings for methane and VOCs were recorded and are shown in the field notes in ***Appendix A***. Soil cover and waste thickness data were also collected and are included in ***Table 2***. Following the conclusion of sampling activities, the soil borings were abandoned in accordance with investigative derived waste (IDW) methods specified in *Task Order 59030DP-1* and ATC's Workplan and Cost Proposal.

3.0 WASTE CHARACTERIZATION SOIL SAMPLING AND ANALYSIS

3.1 Soil Boring Advancement

On March 3, 4, 7, and 8, 2016, soil borings were advanced at the site using solid-stem auger and direct-push drilling methods to characterize the waste. During the event, a total of 11 borings (SB-1 through SB-11) were advanced at the site. Soil boring locations are depicted on ***Figure 3***. Borings were advanced to depths ranging from approximately 15 feet to 20 feet bgs in order to determine the bottom of waste and depth to native soil. The first 5 feet of each boring was advanced using a hand auger in order to avoid potential unmarked utility lines. Below a depth of 5 feet bgs, solid-stem auger or direct-push drilling techniques. Lithologic descriptions, waste depths and thicknesses, and field readings for methane and VOCs were recorded and are shown on the boring logs in ***Appendix C***. A summary of the waste thicknesses and lithologic descriptions is included in ***Table 2***. Following the conclusion of sampling activities, the soil borings were abandoned in accordance with IDW methods specified in *Task Order 5903DP-1* and ATC's Workplan and Cost Proposal.

3.2 Soil Sampling and Analysis

Soil samples from borings SB-1 through SB-11 were collected for laboratory analysis from the top of waste, 2.5-foot intervals from inside of the waste, bottom of waste, and from native soil below the waste. Samples from the first 5 feet of the boring were collected using a hand auger. At depths greater than 5 feet and where samples were to be submitted for laboratory analysis, samples were collected in Macrocores® with a Teflon® liners, with the exception of borings SB-1 and SB-8 through SB-11. Due to limited recovery in the Teflon® liners, samples from borings SB-1 and SB-8 through SB-11 were collected directly from the augers. Once the sample was obtained, a PID was used to screen the air zone directly overlying the sample core. Designated samples were then transferred directly into laboratory supplied containers, placed in an ice-filled cooler, and submitted for laboratory analysis under chain-of-custody protocol.

The soil samples were submitted to a North Carolina certified laboratory for analysis of VOCs by SW-846 Method 8260 plus tentatively identified compounds (TICs), 1,4-dioxane by Method 8260 SIM, semi-volatile organic compounds (SVOCs) by SW-846 Method 8270 plus TICs, inorganic hazardous substances by SW-846 Method 6020, mercury by SW-846 Method 7471A, ammonia and nitrate by SM 4500, and sulfate by ASTM D516. For quality assurance/quality control (QA/QC), an attempt at collecting one duplicate sample per day was performed. However, due to limited recovery from soil borings SB-1 through SB-3 and SB-8 through SB-11, duplicate samples were not able to be collected. Additional QA/QC sample collection included one equipment rinsate blank from the hand auger used during soil sampling for analysis of all parameters and one trip blank in each sample shipment for analysis of VOCs. Field notes and instrument calibration logs are included in ***Appendix A.*** Laboratory analytical reports are included in ***Appendix B*** and soil sampling laboratory analytical results and rinsate analytical data are summarized in ***Tables 3*** and ***4***, respectively. Refer to Section 5.0 for a discussion of laboratory analytical results.

3.3 Laboratory Quality Assurance Data Review

As part of ATC's quality assurance measures, a data review of the laboratory reports was conducted. During the review, it was found that the samples were received from the laboratory in acceptable condition and properly preserved. All samples were analyzed within correct holding times and reported within the lab report, and the chain of custody was properly completed by all parties. The quality control (QC) report shows that an internal blank was analyzed for each method that was used for the original samples. Matrix Spike (MS) and/or Laboratory Control Sample (LCS) data results were provided for each soil and water analytical method. Note that certain samples were analyzed at dilutions ranging from 1 to 50 due to the presence of highly concentrated analytes. Refer to the laboratory reports in ***Appendix B*** for details regarding QC results for the laboratory samples and any noted exceptions. Overall, ATC concludes that the laboratory results are usable and any exceptions do not significantly impact the conclusions presented in this report.

3.4 Soil Laboratory Analytical Results

The results of the waste characterization soil sampling indicated concentrations of target compounds above the Inactive Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals (PSRGs) in select samples collected from SB-1 through SB-11. Constituents detected above the lowest applicable PSRGs include VOCs: 1,4-dioxane, tetrachloroethylene, trichloroethylene, and vinyl chloride; SVOCs: benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, bis(2-ethylhexyl)phthalate, indeno(1,2,3-cd)pyrene, and naphthalene; and inorganic hazardous substances: antimony, arsenic, cadmium, copper, iron, lead, manganese, nickel, silver, thallium, and zinc. Total chromium was also detected at concentrations above the PSRG designated for hexavalent chromium (Cr[VI]); however, analysis for Cr[VI] was not performed. Other constituents were detected in the samples above laboratory detection limits, but concentrations were below the lowest applicable PSRGs. Waste characterization and rinsate blank laboratory analytical results are summarized in ***Tables 3*** and ***4***, respectively, and exceedances of PSRGs in waste are depicted on ***Figure 5***.

4.0 SOLE USE STATEMENT

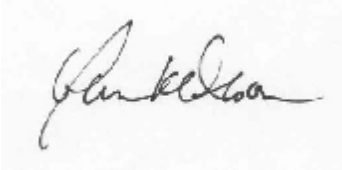
This report, in accordance with the North Carolina Department of Environmental Quality Unit's May 24, 2016 approval referencing *Task Order 5903DP-2* and ATC's proposal dated January 27, 2016, is intended solely for the use of the Unit.

5.0 CERTIFICATION

The report certification for *Task Order 5903DP-2* is included in ***Appendix D***.

If you have questions or require additional information, please do not hesitate to contact Justin Ballard or Genna Olson at (919) 871-0999.

Sincerely,
ATC Associates of North Carolina, P.C.



Justin C. Ballard, P.G.
Project Manager

Genna K. Olson, P.G.
Program Manager

Attachments:

Table 1 – Surface Vapor Survey Data
Table 2 – Soil Cover and Waste Thickness Data
Table 3 – Waste Characterization Analytical Data
Table 4 – Rinsate Analytical Data

Figure 1 – Site Map
Figure 2 – Surface Vapor Survey Map
Figure 3 – Investigation Location Map
Figure 4 – Waste Disposal Boundary Delineation
Figure 5 – Waste Characterization Exceedances Map

Appendix A – Field Notes, Instrument Calibration Logs, and Data Sheets
Appendix B – Laboratory Analytical Reports
Appendix C – Field Boring Logs
Appendix D – Certification

TABLES

TABLE 1

SURFACE VAPOR SURVEY DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Sample ID	Date	VOCs	Methane			Carbon Dioxide	Oxygen	Hydrogen Sulfide		Barometric Pressure	Humidity	Temperature
		ppm	% by volume	% LEL	µg/m³	%	%	ppm	µg/m³	inches Hg	%	°F
FIELD MEASUREMENTS												
SV-1	3/10/2016	0	0	0	0	0.1	20.4	0	0	30.07	64.85	63.84
SV-2	3/10/2016	0	0	0	0	0.1	20.5	1.0	1,393.87	30.07	63.64	64.02
SV-3	3/10/2016	0	0	0	0	0	20.5	0	0	30.07	63.02	63.08
SV-4	3/10/2016	0	0	0	0	0.1	20.4	0	0	30.07	69.12	67.10
SV-5	3/10/2016	0	0	0	0	0.1	20.4	0	0	30.07	57.11	66.66
SV-6	3/10/2016	0	0	0	0	0.1	20.4	0	0	30.07	63.51	60.66
SV-7	3/10/2016	0	0	0	0	0.1	20.4	0	0	30.07	66.03	62.09
SV-8	3/10/2016	0	0	0	0	0.1	20.4	0	0	30.07	61.54	64.60
SV-9	3/10/2016	0	0	0	0	0.1	20.4	0	0	30.07	64.41	66.25
SV-9 (DUP-1)	3/10/2016	0	0	0	0	0.1	20.4	0	0	30.07	64.82	66.19
SV-10	3/10/2016	0	0	0	0	0	20.5	0	0	30.07	64.97	63.84
SV-11	3/10/2016	0	0	0	0	0	20.5	0	0	30.07	59.71	65.30
SV-12	3/10/2016	0	0	0	0	0	20.5	0	0	30.07	60.78	64.41
SV-13	3/10/2016	0	0	0	0	0	20.5	1.0	1,393.87	30.07	64.95	66.41
SV-14	3/10/2016	0	0	0	0	0	20.6	0	0	30.07	60.93	63.75
SV-15	3/10/2016	0	0	0	0	0	20.6	0	0	30.07	53.75	65.93
SV-16	3/10/2016	0	0	0	0	0	20.5	0	0	30.07	52.72	67.19
SV-16 (DUP-2)	3/10/2016	0	0	0	0	0	20.6	0	0	30.07	52.82	67.11
SV-17	3/10/2016	0	0	0	0	0	20.6	0	0	30.07	47.39	67.37
SV-18	3/10/2016	0	0	0	0	0	20.5	0	0	30.07	49.86	67.58
SV-19	3/10/2016	0	0	0	0	0	20.4	0	0	30.07	50.63	67.47
SV-20	3/10/2016	0	0	0	0	0	20.4	0	0	30.07	61.04	68.68
BG-1	3/10/2016	0	0	0	0	0	20.4	0	0	30.07	61.10	68.56

Notes:
1.) LEL = Lower Explosive Limit.
2.) µg/m³ = Micrograms per Cubic Meter.
3.) Hg = Mercury.
4.) VOCs = Volatile Organic Compounds.
5.) Methane (%LEL) calculated using the following formula: = (% by volume)*(100% LEL) / (5% by volume).
6.) Hydrogen Sulfide (µg/m³) calculated using the following formula: = [(ppm by volume)*34.08 / 24.45]*1000
where 34.08 grams/mol is the molecular weight of hydrogen sulfide and 24.45 is a conversion factor the represents the volume of one mole of gas in liters.
7.) >LEL = values exceed 100% LEL.

TABLE 2 (Page 1 of 5)

SOIL COVER AND WASTE THICKNESS DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Boring ID	Soil Cover Thickness (feet*)	Waste Thickness (feet*)	Waste Type	Lithologic Description	Date of Borehole Advancement	Borehole Depth (feet* bgs)	Longitude	Latitude
Waste Characterization Soil Borings								
SB-1	2+	7	Plastic, styrofoam, wood, paper, glass	Asphalt / reddish brown SANDY CLAY / moist gray SANDY CLAY / light gray CLAYEY SAND / wet orange-brown CLAYEY SAND	3/4/2016 & 3/7/2016	15	-78.669843	35.837556
SB-2	2+	2.5	Glass, wire, plastic	Asphalt / reddish brown SANDY CLAY / moist gray SANDY CLAY / moist reddish CLAY / brown CLAYEY SAND / wet grayish black SAND with organics / moist gray SANDY CLAY / brownish-red SANDY CLAY / wet gray CLAYEY SAND	3/4/2016	15	-78.670209	35.837514
SB-3	2+	4	Rubber, plastic, wood, metal	Reddish-brown SANDY CLAY with gravel / reddish brown SANDY CLAY / brown SAND with gravel / brownish gray CLAYEY SAND / moist gray CLAYEY SAND / grayish orange SANDY CLAY / gray CLAYEY SAND	3/4/2016	15	-78.670463	35.837361
SB-4	2+	10.5	Metal, plastic, glass, cloth, rubber, wood, electronics, paper	Grass, roots, brownish red SANDY CLAY / brownish red SANDY CLAY with gravel / tan CLAYEY SAND with gravel / gray CLAYEY SAND / brown CLAYEY SAND / gray CLAYEY SAND / moist gray CLAYEY SAND / brownish red SANDY CLAY / coarse SAND with quarter gravel / wet gray SANDY CLAY	3/7/2016	20	-78.669794	35.837351
SB-5	2+	8.5	Glass, styrofoam, metal	Reddish-brown CLAYEY SAND / gray CLAYEY SAND / moist gray CLAYEY SAND / gray CLAYEY SAND / brown CLAYEY SAND / gray CLAYEY SAND / orange red SANDY SILTY CLAY	3/7/2016	18	-78.66955	35.837256
SB-6	2+	5.5	Plastic, wood, paper	Asphalt/ brown CLAYEY SAND wuth gravel/ gray SAND/ brownish-red SANDY CLAY with mica/ brown SANDY CLAY/ gray and brown SANDY CLAY	3/7/2016	15	-78.669881	35.837055
SB-7	2+	6.5	Wood, glass, metal, cloth, plastic	Grass, roots, reddish-brown CLAYEY SAND/ reddish-brown CLAYEY SAND with gravel/ gray CLAYEY SAND/ orange-red SANDY CLAY	3/7/2016	15	-78.670206	35.836976
SB-8	2+	8.5	Plastic, cloth, paper, metal, wood	Asphalt/ brown SILTY CLAY/ gray SILTY CLAY/ tan SILTY CLAY	3/8/2016	15	-78.670586	35.836887
SB-9	2+	6	Plastic, metal, paper, glass	Asphalt/ brown SILTY CLAY/ greenish-gray SILTY CLAY/greenish-gray to tan SILTY SAND	3/8/2016	15	-78.671295	35.837224
SB-10	2+	7.5	Brick, glass, plastic	Asphalt/ gray SILTY SAND/ gray SILTY CLAY/ tan to gray SILTY SAND	3/8/2016	15	-78.670309	35.837209
SB-11	2+	4.5	Wood, plastic, metal	Asphalt/ brown CLAYEY SAND/ tan SILTY CLAY/ gray SILTY CLAY/ gray CLAYEY SILT/ Sand with quartz and gravel	3/8/2016	20	-78.671704	35.837385

TABLE 2 (Page 2 of 5)

SOIL COVER AND WASTE THICKNESS DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Boring ID	Soil Cover Thickness (feet*)	Waste Thickness (feet*)	Waste Type	Lithologic Description	Date of Borehole Advancement	Borehole Depth (feet* bgs)	Longitude	Latitude
Waste Delineation Soil Borings								
B-1	NA	NA	NA	Asphalt/ brownish-red SILTY CLAY/ brownish-red SILTY CLAY with mica/ gray SILTY CLAY/ yellow-orange CLAYEY SILT	2/29/2016	19	-78.669452	35.837062
B-1A	NA	NA	NA	Asphalt/ brownish-red SILTY CLAY/ brownish-red SILTY CLAY with mica/ gray SANDY CLAY/ brownish-red SILTY CLAY with trace mica/ gray SANDY SILT/ light tan SILTY CLAY	2/29/2016	15	-78.669509	35.83707
B-1B	2+	9	Plastic, cloth, wood	Asphalt/ brownish-red SANDY CLAY with mica/ gray CLAYEY SAND/ brown SANDY CLAY/ gray CLAYEY SILT	2/29/2016	15	-78.669553	35.837093
B-2	2+	7	Plastic, glass, wood	Asphalt/ Gravel/ reddish-brown SILTY CLAY/ gray SILT with organics/ light brown SILT with organics	2/29/2016	15	-78.66952	35.837433
B-3	NA	NA	NA	Asphalt/ reddish-brown SILTY CLAY/ gray CLAYEY SILT/ light brown SILTY CLAY/ orange SILTY CLAY	2/29/2016	15	-78.66976	35.836988
B-3A	NA	NA	NA	Asphalt/ brown CLAY with mica/ reddish-brown SANDY CLAY with mica/ gray SILT/ reddish-brown SILTY CLAY/ gray CLAYEY SILT	2/29/2016	15	-78.669811	35.837014
B-3B	2+	4	Wood, plastic	Asphalt/ reddish-brown SANDY CLAY/ light gray CLAY/ light gray SANDY CLAY/ brown SANDY CLAY with trace mica/ gray SILT with organics/ light brownish-orange CLAY	2/29/2016	15	-78.669839	35.837036
B-4	NA	NA	NA	Asphalt/ reddish-brown SANDY CLAY/ grayish-brown SILTY CLAY/ gray CLAYEY SAND/ tan CLAYEY SAND/ tan SANDY SILT	2/29/2016	26	-78.670246	35.83685
B-4A	2+	14.5	Plastic, wood, metal	Asphalt/ brownish-red SANDY CLAY/ grayish brown SILTY CLAY/ gray SILT/ yellow-orange SILTY CLAY	2/29/2016 & 3/1/2016	19	-78.670255	35.83688
B-5	2+	19	Plastic, cloth, wood, wire, metal	Vegetation, roots/ brownish-red CLAY/ reddish-brown CLAY/ gravel/ gray SILTY CLAY/ light orange CLAY/ gray SILTY CLAY/ black SILT with organics/ gray SILT/ gray SANDY SILT	3/1/2016	25	-78.669657	35.8378
B-6	2+	11	Plastic, glass, styrofoam, metal, cloth	Vegetation, roots, grass/ brownish-red SANDY CLAY/ light gray SANDY CLAY with mica/ reddish-brown CLAY/ brownish-gray SILTY CLAY/ gray SILT/ reddish-brown CLAY	3/1/2016	19.5	-78.670001	35.837713
B-7	2+	7	Plastic, wood, glass, grass clippings, cloth	Vegetation, roots, grass/ brownish-red SANDY CLAY/ brownish-red SANDY CLAY with gravel/ brownish-gray SANDY CLAY/ brownish-gray SANDY SILT/ greenish-gray SANDY SILT	3/1/2016	15	-78.670341	35.837603
B-8	NA	NA	NA	Asphalt/ reddish-brown SANDY CLAY with mica/ brown CLAYEY SAND with gravel/ brownish-gray CLAYEY SAND/ brown SANDY CLAY/ brownish-red CLAY	3/1/2016	15	-78.671299	35.837272

TABLE 2 (Page 3 of 5)

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Boring ID	Soil Cover Thickness (feet*)	Waste Thickness (feet*)	Waste Type	Lithologic Description	Date of Borehole Advancement	Borehole Depth (feet* bgs)	Longitude	Latitude
B-8A	NA	NA	NA	Asphalt/ brownish-red SANDY CLAY/ brownish-red SANDY CLAY with mica/ light brown CLAYEY SAND/ brown SANDY CLAY/ reddish-orange SANDY CLAY/ reddish-brown SANDY CLAY/ gray CLAYEY SAND	3/2/2016	20	-78.671316	35.837299
B-8B	2+	17	Plastic, cloth, metal, brick	Asphalt/ brownish-gray CLAYEY SAND/ brown SANDY CLAY/ reddish-orange SANDY CLAY with mica/ dark brown to black CLAYEY SAND/ gray CLAYEY SAND	3/2/2016	30	-78.671341	35.837331
B-8C	2+	16	Plastic, metal, cloth, wood	Asphalt/ brownish-gray CLAYEY SAND/ brownish-red SANDY CLAY/ gray CLAYEY SAND/ reddish-brown SANDY CLAY/ brown CLAYEY SAND	3/2/2016	25	-78.671439	35.83732
B-8D	2+	8	Plastic, wood, glass, metal, wires	Asphalt/ brown SAND with gravel/ brownish-red SANDY CLAY with mica/ light brown SANDY CLAY/ grayish-light brown SANDY CLAY/ light brown SANDY CLAY/ light gray SANDY, SILTY CLAY	3/3/2016	20	-78.671435	35.837271
B-8E	2+	6	Plastic, metal, wood	Asphalt/ brown SAND with gravel/ brownish-red SANDY CLAY/ light brown CLAYEY SAND/ white fine-grained mica CLAY/ gray CLAYEY SAND/ light brown CLAYEY SAND with rock	3/3/2016	21	-78.671338	35.837271
B-8F	2+	6	Plastic, wood. Metal, cloth	Asphalt/ brown CLAYEY SAND with gravel/ brownish-red SANDY CLAY with mica/ brown SANDY CLAY/ gray CLAYEY SAND/ brown SANDY CLAY with rocks	3/3/2016	20	-78.671294	35.837227
B-8G	2	22	Glass, plastic, wire, cloth, wood	Asphalt/ brownish-red SANDY CLAY with gravel/ brown CLAYEY SAND/ light brown SAND/ black SILTY SAND with organics/ blackish-gray SANDY CLAY with organics/ gray SANDY SILT/ gray SILT	3/3/2016	25	-78.671274	35.837299
B-9	2+	12	Plastic, rubber, cloth	Asphalt/ gray CLAYEY SAND/ gravel and asphalt/ red SANDY-CLAY/ light brown SANDY CLAY/ dark gray CLAYEY SAND with gravel/ gray SILTY SAND	3/1/2016	30	-78.671474	35.837461
B-10	2+	7	Wood, cloth, plastic, glass, metal	Asphalt/ orange-red SANDY CLAY/ gray CLAYEY SAND/ black SANDY SILT with organics/ brown SANDY CLAY/ light gray SANDY SILT	3/1/2016	17	-78.671547	35.837364
B-11	NA	NA	[1]Single piece of styrofoam at 4 feet bgs	Asphalt/ orange-red SANDY CLAY/ gray CLAYEY SAND/ brownish-gray SANDY CLAY/ reddish-brown SANDY CLAY/ gray SAND/ brownish-red SANDY CLAY/ rock with brownish-red SANDY CLAY/ brownish-red CLAY	3/1/2016	25	-78.671606	35.837247

SOIL COVER AND WASTE THICKNESS DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Boring ID	Soil Cover Thickness (feet*)	Waste Thickness (feet*)	Waste Type	Lithologic Description	Date of Borehole Advancement	Borehole Depth (feet* bgs)	Longitude	Latitude
B-11A	NA	NA	[1]Single plastic bag at 5 feet bgs	Asphalt/ brown CLAYEY SAND with gravel/ brownish-red SANDY CLAY/ gray SAND/ brown SANDY CLAY/ light brown SANDY CLAY/ light brown CLAYEY SAND/ light brown SANDY CLAY/ gray CLAYEY SAND/ brown CLAYEY SAND	3/3/2016	20	-78.671625	35.837283
B-11B	2+	8	Plastic, wood, wire, paper	Asphalt/ brown CLAYEY SAND with gravel/ brownish-red CLAYEY SAND/ brownish-red SANDY CLAY/ grayish-brown SAND/ brown SANDY CLAY/ light brown SANDY CLAY/ brownish-gray SANDY CLAY/ light gray SANDY CLAY	3/3/2016	20	-78.671584	35.837297
B-11C	2+	9	Plastic, paper, wood, metal, glass	Brownish-tan SILTY CLAY/ gray SILTY CLAY/ brown SILTY CLAY	3/2/2016	20	-78.671538	35.837251
B-12	NA	NA	NA	Asphalt/ brownish-red SANDY CLAY with mica/ gray SAND with mica/ brownish-red CLAYEY SAND/ brownish-red SANDY CLAY with gravel/ gray CLAYEY SAND/ gray SANDY CLAY with gravel/ light brownish-gray SANDY CLAY/ light gray SANDY CLAY/ dark gray CLAY	3/2/2016	20	-78.671832	35.837529
B-13	NA	NA	NA	Asphalt/ reddish-brown SANDY CLAY/ brown CLAYEY SAND/ brownish-red SANDY CLAY/ brownish-gray CLAYEY SILT/ grayish-brown CLAYEY, SANDY SILT	3/2/2016	19	-78.670756	35.836787
B-13A	NA	NA	NA	Asphalt/ reddish-brown SANDY CLAY/ brownish-gray CLAYEY SAND/ brownish-red SANDY CLAY/ brownish-gray CLAY/ brown SANDY CLAY/ brown SANDY CLAY with rocks	3/2/2016	20	-78.670697	35.836785
B-13B	2+	14	Plastic, wires, wood	Asphalt/ reddish-brown CLAYEY SAND/ brownish-red SANDY CLAY with mica/ grayish-brown CLAYEY SAND/ brownish-red SANDY CLAY/ brownish-gray CLAYEY SAND/ light gray CLAYEY SAND	3/2/2016	20	-78.670637	35.836828
B-14	2+	7	Glass, plastic, wood, metal	Grass, roots/ reddish-brown SANDY CLAY/ brownish-red SANDY CLAY/ yellowish-orange SAND with gravel/ brownish-red CLAY/ brown CLAYEY SAND with mica/ grayish-brown SANDY CLAY/ gray SANDY CLAY with red SANDY CLAY	3/2/2016	20	-78.670949	35.837296
B-15	2+	21	Plastic, wood, metal, glass, styrofoam	Asphalt/ brown CLAYEY SAND/ brownish-red SANDY CLAY with mica/ light brown CLAYEY SAND with mica/ gray CLAYEY SAND with gravel/ gray CLAYEY SAND with organics/ brown SANDY CLAY/ gray CLAYEY SAND/ brownish-gray CLAYEY SAND/ reddish-orange SAND	3/3/2016	30	-78.671648	35.837416

TABLE 2 (Page 5 of 5)

SOIL COVER AND WASTE THICKNESS DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Boring ID	Soil Cover Thickness (feet*)	Waste Thickness (feet*)	Waste Type	Lithologic Description	Date of Borehole Advancement	Borehole Depth (feet* bgs)	Longitude	Latitude
B-15A	2+	15	Wood, plastic, metal	Asphalt/ brown CLAYEY SAND with gravel/ reddish-brown SANDY CLAY with mica/ brown SANDY CLAY with gravel/ gray SANDY CLAY/ grayish-brown SANDY CLAY/ brownish-gray CLAYEY SAND/ light gray CLAYEY SAND	3/3/2016	25	-78.671666	35.837494
B-15B	NA	NA	NA	Asphalt/ reddish-brown CLAYEY SAND/ grayish-brown SAND/ gray SANDY CLAY/ black CLAYEY SAND with organics/ grayish-brown SANDY CLAY/ brown SANDY CLAY/ brownish-gray SANDY CLAY	3/3/2016	20	-78.67173	35.837478
B-15C	NA	NA	NA	Asphalt/ brown CLAYEY SAND with gravel/ brownish-red SANDY CLAY with mica/ grayish-brown CLAYEY SAND with mica and gravel	3/3/2016	6	-78.671713	35.837385
B-15D	2+	15	Plastic, rubber, metal, wood, cloth, styrofoam	Asphalt/ brown CLAYEY SAND with gravel/ brownish-red SANDY CLAY with mica/ grayish-brown CLAYEY SAND with mica/ brownish-red SANDY CLAY/ reddish-brown SANDY CLAY/ black CLAYEY SAND with organics/ gray CLAYEY SAND/ brownish-gray CLAYEY SAND/ gray SILTY SAND	3/3/2016	25	-78.671697	35.837378
B-15E	NA	NA	NA	Asphalt/ red SILTY CLAY/ tan CLAYEY SILT with rock/ red CLAY/ tannish-gray SILTY CLAY/ tan CLAYEY SILT	3/2/2016	15	-78.67174	35.837355
B-16[1]	NA	NA	Single piece of electrical tape at 5 feet bgs	Asphalt/ tan CLAYEY SILT/ red CLAYEY SILT/ brown SILTY CLAY	3/2/2016	15	-78.671043	35.836903

Notes:
1.) GPS coordinates are converted to Latitude and Longitude (WGS84) from North Carolina State Plane Coordinate System (NAD83).
2.) NA = Not applicable.
3.) feet bgs = feet below ground surface.
4.) 2+ = soil cover exceeds two feet in thickness.
5.) * = soil cover thickness, waste thickness, and borehole depth in feet unless otherwise noted.
6.) [1] = A small amount of waste was observed but based on other field observations, borehole location does not appear representative of waste disposal area.

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-1 (3.5')	SB-1 (3.5') (Duplicate)	SB-1 (5-10')	SB-1 (10')	SB-2 (10')	SB-2 (12')	SB-3 (6')	SB-3 (12.5')	SB-4 (4.5')	SB-4 (5-10')	SB-4 (10-15')
Sample Date				3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/7/2016	3/7/2016	3/7/2016
Volatile Organic Compounds (VOCs) in mg/kg														
Acetone	12200	100000	24	BDL	0.091	BDL	BDL	BDL	BDL	0.17	BDL	0.089	BDL	BDL
Benzene	1.2	5.1	0.0073	BDL	0.0027	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Disulfide	154	700	3.8	BDL	BDL	BDL	BDL	BDL	BDL	0.0064	BDL	BDL	BDL	BDL
Chlorobenzene	56	260	0.44	BDL	0.0036	BDL	0.00067	BDL	BDL	0.036	BDL	0.03	0.0011	0.0031
1,2-Dichlorobenzene	360	376	0.24	BDL	BDL	BDL	BDL	BDL	BDL	0.0031	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	2.6	11	0.07	BDL	0.01	0.0015	0.00067	0.00093	BDL	0.034	BDL	0.022	BDL	0.0011
1,4-Dioxane	5.3	24	0.012	0.0029	0.011	0.0066	0.0086	0.0059	0.0025	BDL	BDL	BDL	BDL	0.0097
cis-1,2-Dichloroethylene	32	460	0.36	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	5.8	25	8.1	0.0009	0.02	0.0016	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene (Cumene)	268	268	1.3	BDL	0.0047	BDL	BDL	BDL	BDL	0.011	BDL	0.0034	BDL	BDL
Methylene Chloride	57	640	0.023	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	16	78	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	818	818	5.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	11.6	52	2.2	BDL	0.016	0.0032	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	0.82	3.8	0.018	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride	0.059	1.7	0.00019	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p-Xylene	110	388	6*	BDL	0.0073	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene	130	434	6*	BDL	0.0026	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VOCs Tentatively Identified Compounds (TICs) in mg/kg														
1R-.alpha.-Pinene	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.017
Benzene, 1,2,3-trimethyl-	9.8	42	NE	N/A	0.063	0.0072	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, 1-ethyl-2,4-dimethyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.018	N/A	N/A
Benzene, 1-methyl-3-(1-meth…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	0.079	N/A	N/A	N/A	N/A
Benzene, 2-ethyl-1,3-dimethyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyclohexane, 1-methyl-4-(1-…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0068
Ethane, 1,1-difluoro-	1430	1430	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexane	122	141	54	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Indane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	0.14	N/A	N/A	N/A	N/A
Propene	349	349	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-5 (4')	SB-5 (5')	SB-5 (12.5')	SB-6 (7.5')	SB-6 (10')	SB-6 (12.5')	SB-7 (3.5')	SB-7 (5-10')	SB-7 (12.5')	SB-8 (3.5')	SB-8 (5-10')
Sample Date				3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/8/2016	3/8/2016
Volatile Organic Compounds (VOCs) in mg/kg														
Acetone	12200	100000	24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.3
Benzene	1.2	5.1	0.0073	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0011
Carbon Disulfide	154	700	3.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	56	260	0.44	0.00082	BDL	BDL	BDL	BDL	BDL	0.00073	0.0016	BDL	BDL	0.0063
1,2-Dichlorobenzene	360	376	0.24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	2.6	11	0.07	BDL	BDL	BDL	0.01	BDL	BDL	BDL	0.0026	BDL	BDL	0.017
1,4-Dioxane	5.3	24	0.012	BDL	0.0019	0.0054	BDL	BDL	BDL	BDL	**0.049**	**0.015**	BDL	0.0027
cis-1,2-Dichloroethylene	32	460	0.36	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0043
Ethylbenzene	5.8	25	8.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene (Cumene)	268	268	1.3	BDL	BDL	BDL	0.0012	BDL	BDL	BDL	0.0019	BDL	BDL	0.0039
Methylene Chloride	57	640	0.023	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Tetrachloroethylene	16	78	0.005	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**0.065**
Toluene	818	818	5.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.0036
1,2,4-Trichlorobenzene	11.6	52	2.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	0.82	3.8	0.018	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.012
Vinyl Chloride	0.059	1.7	0.00019	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p-Xylene	110	388	6*	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene	130	434	6*	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VOCs Tentatively Identified Compounds (TICs) in mg/kg														
1R-.alpha.-Pinene	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, 1,2,3-trimethyl-	9.8	42	NE	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Benzene, 1-ethyl-2,4-dimethyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, 1-methyl-3-(1-meth…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, 2-ethyl-1,3-dimethyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.013	N/A	N/A	N/A
Cyclohexane, 1-methyl-4-(1-…	NE	NE	NE	N/A	N/A	N/A	0.018	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethane, 1,1-difluoro-	1430	1430	NE	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	0.019	0.043	0.016	0.052	**N/A**
Hexane	122	141	54	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	0.017	**N/A**	0.015	**N/A**	**N/A**
Indane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Propene	349	349	NE	**N/A**	**N/A**	**N/A**	**N/A**	0.018	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-8 (10')	SB-8 (13')	SB-9 (4')	SB-9 (5')	SB-9 (13.5')	SB-10 (5')	SB-10 (10')	SB-10 (12.5')	SB-11 (8')	SB-11 (10')	SB-11 (12.5')
Sample Date				3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016
Volatile Organic Compounds (VOCs) in mg/kg														
Acetone	12200	100000	24	BDL	BDL	BDL	BDL	0.1	BDL	BDL	BDL	BDL	BDL	BDL
Benzene	1.2	5.1	0.0073	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Carbon Disulfide	154	700	3.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chlorobenzene	56	260	0.44	BDL	BDL	0.0012	0.0022	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2-Dichlorobenzene	360	376	0.24	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,4-Dichlorobenzene	2.6	11	0.07	BDL	BDL	BDL	0.001	BDL	BDL	0.0019	BDL	BDL	BDL	BDL
1,4-Dioxane	5.3	24	0.012	BDL	BDL	0.0017	0.0045	0.0062	BDL	**0.033**	0.002	BDL	BDL	
cis-1,2-Dichloroethylene	32	460	0.36	0.084	0.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Ethylbenzene	5.8	25	8.1	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Isopropylbenzene (Cumene)	268	268	1.3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Methylene Chloride	57	640	0.023	BDL	BDL	BDL	BDL	BDL	0.0079	BDL	BDL	BDL	0.0097	0.0075
Tetrachloroethylene	16	78	0.005	**6.3**	**6.7**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Toluene	818	818	5.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
1,2,4-Trichlorobenzene	11.6	52	2.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Trichloroethylene	0.82	3.8	0.018	**3.2**	**2.8**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Vinyl Chloride	0.059	1.7	0.00019	**0.0037**	**0.0041**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
m&p-Xylene	110	388	6*	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
o-Xylene	130	434	6*	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
VOCs Tentatively Identified Compounds (TICs) in mg/kg														
1R-.alpha.-Pinene	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, 1,2,3-trimethyl-	9.8	42	NE	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Benzene, 1-ethyl-2,4-dimethyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, 1-methyl-3-(1-meth…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzene, 2-ethyl-1,3-dimethyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Cyclohexane, 1-methyl-4-(1-…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ethane, 1,1-difluoro-	1430	1430	NE	**N/A**	**N/A**	0.039	0.046	0.046	0.047	0.042	0.029	**N/A**	0.033	0.029
Hexane	122	141	54	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Indane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Propene	349	349	NE	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-1 (3.5')	SB-1 (3.5') (Duplicate)	SB-1 (5-10')	SB-1 (10')	SB-2 (10')	SB-2 (12')	SB-3 (6')	SB-3 (12.5')	SB-4 (4.5')	SB-4 (5-10')	SB-4 (10-15')
Sample Date				3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/7/2016	3/7/2016	3/7/2016
Semivolatile Organic Compounds (SVOCs) in mg/kg														
Acenaphthene	720	9000	8.4	BDL	BDL	BDL	BDL	0.11	BDL	BDL	BDL	BDL	BDL	BDL
Anthracene	3600	46000	660	BDL	BDL	BDL	BDL	0.18	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)anthracene	0.16	2.9	0.18	BDL	BDL	0.073	BDL	**0.3**	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene	0.016	0.29	0.059	BDL	BDL	**0.087**	BDL	**0.27**	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene	0.16	2.9	0.6	BDL	BDL	0.13	BDL	**0.34**	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(g,h,i)perylene	NE	NE	7800	BDL	BDL	BDL	BDL	0.18	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene	1.6	29	5.9	BDL	BDL	BDL	BDL	0.13	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-Ethylhexyl)phthalate	39	160	7.2	0.32	BDL	6.7	BDL	0.37	BDL	1.4	BDL	BDL	2.3	0.38
Carbazole	NE	NE	0.37	BDL	BDL	BDL	BDL	0.12	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene	16	290	18	BDL	BDL	0.11	BDL	0.31	BDL	BDL	BDL	BDL	BDL	BDL
Dibenzofuran	14.6	200	5.2	BDL	BDL	BDL	BDL	0.069	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-butylphthalate	1260	16400	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluoranthene	480	6000	330	BDL	BDL	0.19	BDL	0.84	BDL	BDL	BDL	BDL	BDL	0.077
Fluorene	480	6000	56	BDL	BDL	BDL	BDL	0.13	BDL	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	0.16	2.9	2	BDL	BDL	BDL	BDL	**0.17**	BDL	BDL	BDL	BDL	BDL	BDL
2-Methylnaphthalene	48	600	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.16	BDL
Naphthalene	3.8	17	0.21	BDL	BDL	0.18	BDL	BDL	BDL	BDL	BDL	0.19	0.2	BDL
Phenanthrene	NE	NE	68	BDL	BDL	BDL	BDL	0.86	BDL	BDL	BDL	BDL	BDL	BDL
Pyrene	360	4600	220	BDL	BDL	0.17	BDL	0.77	BDL	BDL	BDL	BDL	BDL	0.082
SVOCs TICs in mg/kg														
.beta.-Sitosterol	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
.gamma.-Sitosterol	NE	NE	NE	N/A	N/A	N/A	N/A	2.1	N/A	N/A	N/A	N/A	N/A	N/A
10,18-Bisnorabieta-5,7,9(10…	NE	NE	NE	N/A	0.45	N/A	0.21	N/A	N/A	N/A	N/A	N/A	2.7	N/A
10,18-Bisnorabieta-8,11,13-…	NE	NE	NE	0.23	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18-Norabietane	NE	NE	NE	N/A	N/A	N/A	N/A	1.9	N/A	N/A	N/A	N/A	N/A	N/A
1-Phenanthrenecarboxylic ac…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4b,8-Dimethyl-2-isopropylph…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.67	N/A
4H-Dibenz[a,kl]anthracene, …	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Abietic Acid	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzeneacetamide	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.5	N/A
Benzenesulfonamide, 2-methyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bicyclo[5.2.0]nonane, 4-met…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-5 (4')	SB-5 (5')	SB-5 (12.5')	SB-6 (7.5')	SB-6 (10')	SB-6 (12.5')	SB-7 (3.5')	SB-7 (5-10')	SB-7 (12.5')	SB-8 (3.5')	SB-8 (5-10')
Sample Date				3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/8/2016	3/8/2016
Semivolatile Organic Compounds (SVOCs) in mg/kg														
Acenaphthene	720	9000	8.4	0.19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Anthracene	3600	46000	660	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)anthracene	0.16	2.9	0.18	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene	0.016	0.29	0.059	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene	0.16	2.9	0.6	0.063	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(g,h,i)perylene	NE	NE	7800	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene	1.6	29	5.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-Ethylhexyl)phthalate	39	160	7.2	BDL	BDL	0.16	BDL	0.17	BDL	1.5	4.7	BDL	BDL	**20**
Carbazole	NE	NE	0.37	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene	16	290	18	0.065	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Dibenzofuran	14.6	200	5.2	0.16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-butylphthalate	1260	16400	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Fluoranthene	480	6000	330	0.22	BDL	BDL	BDL	0.073	BDL	BDL	BDL	BDL	BDL	BDL
Fluorene	480	6000	56	0.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	0.16	2.9	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Methylnaphthalene	48	600	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.48
Naphthalene	3.8	17	0.21	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	**0.24**
Phenanthrene	NE	NE	68	0.58	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.19
Pyrene	360	4600	220	0.21	BDL	BDL	BDL	0.09	BDL	BDL	BDL	BDL	BDL	BDL
SVOCs TICs in mg/kg														
.beta.-Sitosterol	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.5	N/A	N/A	N/A
.gamma.-Sitosterol	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10,18-Bisnorabieta-5,7,9(10…	NE	NE	NE	N/A	N/A	0.66	N/A	N/A	N/A	N/A	2.6	N/A	N/A	7.4
10,18-Bisnorabieta-8,11,13-…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18-Norabietane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1-Phenanthrenecarboxylic ac…	NE	NE	NE	N/A	N/A	0.27	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.2
4b,8-Dimethyl-2-isopropylph…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.99	N/A	N/A	16
4H-Dibenz[a,kl]anthracene, …	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.4	N/A	N/A	N/A
Abietic Acid	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	6.2
Benzeneacetamide	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzenesulfonamide, 2-methyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Bicyclo[5.2.0]nonane, 4-met…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.6

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-8 (10')	SB-8 (13')	SB-9 (4')	SB-9 (5')	SB-9 (13.5')	SB-10 (5')	SB-10 (10')	SB-10 (12.5')	SB-11 (8')	SB-11 (10')	SB-11 (12.5')
Sample Date				3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016
Semivolatile Organic Compounds (SVOCs) in mg/kg														
Acenaphthene	720	9000	8.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Anthracene	3600	46000	660	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)anthracene	0.16	2.9	0.18	BDL	BDL	0.085	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(a)pyrene	0.016	0.29	0.059	BDL	BDL	**0.11**	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(b)fluoranthene	0.16	2.9	0.6	BDL	BDL	**0.16**	BDL	BDL	0.063	BDL	BDL	BDL	BDL	BDL
Benzo(g,h,i)perylene	NE	NE	7800	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Benzo(k)fluoranthene	1.6	29	5.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Bis(2-Ethylhexyl)phthalate	39	160	7.2	4.3	BDL	1.1	0.23	BDL	0.35	0.24	BDL	2.2	0.19	BDL
Carbazole	NE	NE	0.37	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Chrysene	16	290	18	BDL	BDL	0.13	BDL	BDL	0.07	BDL	BDL	BDL	BDL	BDL
Dibenzofuran	14.6	200	5.2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Di-n-butylphthalate	1260	16400	19	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	3.9	BDL	BDL
Fluoranthene	480	6000	330	BDL	BDL	0.19	BDL	BDL	0.13	BDL	BDL	BDL	BDL	BDL
Fluorene	480	6000	56	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Indeno(1,2,3-cd)pyrene	0.16	2.9	2	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
2-Methylnaphthalene	48	600	1.6	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Naphthalene	3.8	17	0.21	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Phenanthrene	NE	NE	68	BDL	BDL	BDL	BDL	BDL	0.12	BDL	BDL	BDL	BDL	BDL
Pyrene	360	4600	220	BDL	BDL	0.23	BDL	BDL	0.13	BDL	BDL	BDL	BDL	BDL
SVOCs TICs in mg/kg														
.beta.-Sitosterol	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
.gamma.-Sitosterol	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10,18-Bisnorabieta-5,7,9(10…	NE	NE	NE	0.48	N/A	N/A	N/A	N/A	N/A	N/A	N/A	2.1	N/A	N/A
10,18-Bisnorabieta-8,11,13-…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18-Norabietane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1-Phenanthrenecarboxylic ac…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4b,8-Dimethyl-2-isopropylph…	NE	NE	NE	0.96	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4H-Dibenz[a,kl]anthracene, …	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Abietic Acid	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzeneacetamide	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Benzenesulfonamide, 2-methyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	N/A	N/A
Bicyclo[5.2.0]nonane, 4-met…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-1 (3.5')	SB-1 (3.5') (Duplicate)	SB-1 (5-10')	SB-1 (10')	SB-2 (10')	SB-2 (12')	SB-3 (6')	SB-3 (12.5')	SB-4 (4.5')	SB-4 (5-10')	SB-4 (10-15')
Sample Date				3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/7/2016	3/7/2016	3/7/2016
SVOCs TICs in mg/kg														
Docosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Docosane, 9-butyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	0.91	N/A	N/A	N/A	N/A
Dodecane, 2-methyl-6-propyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
eicosane	NE	NE	NE	N/A	2.7	5.4	0.69	N/A	N/A	2.3	N/A	N/A	N/A	N/A
Eicosane, 9-octyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.92	N/A
Heneicosane	NE	NE	NE	N/A	0.49	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptacosane	NE	NE	NE	1.5	N/A	N/A	0.3	N/A	N/A	0.91	N/A	N/A	N/A	N/A
Heptadecane	NE	NE	NE	N/A	2.8	8.5	0.64	N/A	N/A	1.1	N/A	N/A	N/A	N/A
Heptadecane, 9-hexyl-	NE	NE	NE	N/A	N/A	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexacosane	NE	NE	NE	N/A	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	1.1	N/A	N/A	N/A	N/A
Hexatriacontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A
Naphthalene, 1,2,3,4-tetrah…	NE	NE	NE	0.26	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n-Hexadecanoic acid	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	5	N/A
Nonacosane	NE	NE	NE	N/A	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonadecane	NE	NE	NE	N/A	N/A	N/A	0.32	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonadecane, 9-methyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	1.3	N/A	N/A	N/A	N/A
Octacosane	NE	NE	NE	1.6	N/A	N/A	0.22	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octadecane	NE	NE	NE	1.3	N/A	1.1	N/A	N/A	N/A	1	N/A	N/A	N/A	N/A
Octadecane, 5,14-dibutyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	N/A
Octadecanoic acid	NE	NE	NE	N/A	N/A	3.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentacosane	NE	NE	NE	N/A	N/A	N/A	N/A	1.3	N/A	N/A	N/A	N/A	N/A	N/A
Pentadecane	NE	NE	NE	N/A	1.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentadecane, 2,6,10,14-tetr…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentadecane, 8-heptyl-	NE	NE	NE	0.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenanthrene, 1-methyl-7-(1…	NE	NE	NE	N/A	N/A	N/A	N/A	7.7	N/A	N/A	N/A	N/A	3.5	N/A
Silane, trichlorooctadecyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	0.96	N/A	N/A	N/A	N/A
Sulfurous acid, butyl dodec…	NE	NE	NE	1.8	1.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetracosane	NE	NE	NE	1.9	2.4	12	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetradecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A	N/A
Tetradecanoic Acid	NE	NE	NE	N/A	N/A	0.35	N/A	N/A	N/A	N/A	N/A	N/A	1	N/A
Tetratetracontane	NE	NE	NE	1	N/A	N/A	0.73	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triacontane	NE	NE	NE	N/A	2.8	N/A	0.65	N/A	N/A	N/A	N/A	N/A	N/A	N/A

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-5 (4')	SB-5 (5')	SB-5 (12.5')	SB-6 (7.5')	SB-6 (10')	SB-6 (12.5')	SB-7 (3.5')	SB-7 (5-10')	SB-7 (12.5')	SB-8 (3.5')	SB-8 (5-10')
Sample Date				3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/8/2016	3/8/2016
SVOCs TICs in mg/kg														
Docosane	NE	NE	NE	N/A	N/A	0.45	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Docosane, 9-butyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dodecane, 2-methyl-6-propyl-	NE	NE	NE	N/A	N/A	N/A	N/A	1.1	N/A	N/A	N/A	N/A	N/A	N/A
eicosane	NE	NE	NE	N/A	N/A	0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Eicosane, 9-octyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heneicosane	NE	NE	NE	N/A	N/A	0.53	N/A	0.99	N/A	N/A	N/A	N/A	N/A	N/A
Heptacosane	NE	NE	NE	N/A	N/A	N/A	N/A	0.81	N/A	N/A	N/A	N/A	N/A	N/A
Heptadecane	NE	NE	NE	N/A	N/A	0.18	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptadecane, 9-hexyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexacosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.84	N/A	N/A	N/A
Hexatriacontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene, 1,2,3,4-tetrah…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n-Hexadecanoic acid	NE	NE	NE	N/A	N/A	19	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonacosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonadecane, 9-methyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octacosane	NE	NE	NE	N/A	N/A	0.37	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octadecane, 5,14-dibutyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octadecanoic acid	NE	NE	NE	N/A	N/A	2.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentacosane	NE	NE	NE	N/A	N/A	N/A	N/A	1.3	N/A	N/A	N/A	N/A	N/A	N/A
Pentadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentadecane, 2,6,10,14-tetr…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.59	N/A	N/A	N/A
Pentadecane, 8-heptyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenanthrene, 1-methyl-7-(1…	NE	NE	NE	N/A	N/A	0.36	N/A	N/A	N/A	1.5	11	N/A	N/A	1.7
Silane, trichlorooctadecyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfurous acid, butyl dodec…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetracosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetradecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetradecanoic Acid	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetratetracontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triacontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-8 (10')	SB-8 (13')	SB-9 (4')	SB-9 (5')	SB-9 (13.5')	SB-10 (5')	SB-10 (10')	SB-10 (12.5')	SB-11 (8')	SB-11 (10')	SB-11 (12.5')
Sample Date				3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016
SVOCs TICs in mg/kg														
Docosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Docosane, 9-butyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dodecane, 2-methyl-6-propyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
eicosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Eicosane, 9-octyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heneicosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptacosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Heptadecane, 9-hexyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexacosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hexatriacontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Naphthalene, 1,2,3,4-tetrah…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
n-Hexadecanoic acid	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonacosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Nonadecane, 9-methyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octacosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octadecane, 5,14-dibutyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Octadecanoic acid	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentacosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentadecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentadecane, 2,6,10,14-tetr…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pentadecane, 8-heptyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Phenanthrene, 1-methyl-7-(1…	NE	NE	NE	0.77	N/A	1.9	N/A	N/A	N/A	N/A	N/A	7.3	N/A	N/A
Silane, trichlorooctadecyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Sulfurous acid, butyl dodec…	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetracosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetradecane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetradecanoic Acid	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tetratetracontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Triacontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-1 (3.5')	SB-1 (3.5') (Duplicate)	SB-1 (5-10')	SB-1 (10')	SB-2 (10')	SB-2 (12')	SB-3 (6')	SB-3 (12.5')	SB-4 (4.5')	SB-4 (5-10')	SB-4 (10-15')
Sample Date				3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/4/2016	3/4/2016	3/4/2016	3/4/2016	3/7/2016	3/7/2016	3/7/2016
SVOCs TICs in mg/kg														
Tricosane	NE	NE	NE	N/A	N/A	2.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tridecane, 7-hexyl-	NE	NE	NE	N/A	2.4	3.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tritetracontane	NE	NE	NE	1.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vitamin E	NE	NE	NE	N/A	N/A	N/A	N/A	1.2	N/A	N/A	N/A	N/A	N/A	N/A
Metals in mg/kg														
Antimony	6.2	94	0.9	BDL	BDL	0.055	BDL	0.033	0.038	0.072	BDL	**81**	0.29	0.053
Arsenic	0.68	3	5.8	0.37	0.37	**1.3**	0.37	0.52	**0.72**	**1**	BDL	**7.2**	**1.8**	0.34
Beryllium	32	460	63	0.36	0.41	0.37	0.41	0.25	0.51	0.3	0.97	0.27	0.46	0.23
Cadmium	14.2	196	3	BDL	BDL	0.035	BDL	BDL	BDL	BDL	BDL	**46**	**4**	0.082
Chromium	0.3**	6.3**	3.8**	**11**	**11**	**14**	**10**	**9.2**	**10**	**12**	**10**	**100**	**20**	**9.1**
Copper	620	9400	700	4.2	7	8.2	4.1	2.1	9.4	7.4	11	**9600**	25	5.3
Iron	11000	100000	150	**16000**	**17000**	**32000**	**8500**	**11000**	**20000**	**20000**	**4600**	**100000**	**30000**	**9200**
Lead	400	800	270	8.7	7.8	19	6	6.4	9	36	6.7	**19000**	170	30
Manganese	360	5200	NE	190	260	140	41	31	**1500**	**440**	40	**520**	**520**	180
Nickel	300	4400	130	3.7	4.4	4.5	3.4	2.7	9.8	4.5	6.6	**5400**	17	3.4
Selenium	78	1160	2.1	BDL	BDL	0.27	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Silver	78	1160	3.4	BDL	BDL	**3.9**	0.24	BDL	BDL	BDL	BDL	3.1	0.33	BDL
Thallium	0.156	2.4	0.28	0.082	0.081	0.12	0.068	0.067	0.09	0.074	0.071	0.094	0.11	0.068
Zinc	4600	70000	1200	11	21	160	7.4	6.5	20	29	18	**5300**	110	16
Mercury	2.2	3.13	1	0.065	0.019	0.2	0.02	0.036	0.006	0.09	BDL	0.044	0.041	0.03
Additional Analytes in mg/kg														
Ammonia Nitrogen	NE	NE	NE	110	130	180	130	150	32	150	59	410	260	58
Nitrate	26000	100000	NE	BDL	BDL	BDL	3.2	BDL	BDL	BDL	9.9	BDL	BDL	BDL
Sulfate	NE	NE	NE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	900

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-5 (4')	SB-5 (5')	SB-5 (12.5')	SB-6 (7.5')	SB-6 (10')	SB-6 (12.5')	SB-7 (3.5')	SB-7 (5-10')	SB-7 (12.5')	SB-8 (3.5')	SB-8 (5-10')
Sample Date				3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/7/2016	3/8/2016	3/8/2016
SVOCs TICs in mg/kg														
Tricosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.83	N/A	N/A	N/A
Tridecane, 7-hexyl-	NE	NE	NE	N/A	N/A	N/A	N/A	1.2	N/A	N/A	N/A	N/A	N/A	N/A
Tritetracontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vitamin E	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.73	N/A	N/A	N/A
Metals in mg/kg														
Antimony	6.2	94	0.9	0.11	BDL	BDL	0.046	0.052	0.048	0.037	0.37	BDL	0.075	**1.5**
Arsenic	0.68	3	5.8	BDL	BDL	BDL	**1.4**	**1.2**	**1.4**	**1.9**	**2.1**	0.36	**3.8**	**2.9**
Beryllium	32	460	63	0.44	0.42	0.65	0.26	0.31	0.47	0.38	0.31	0.64	0.88	0.39
Cadmium	14.2	196	3	BDL	BDL	BDL	BDL	BDL	BDL	BDL	0.6	BDL	BDL	**3.2**
Chromium	0.3**	6.3**	3.8**	**11**	**7**	**9.5**	**17**	**14**	**24**	**15**	**23**	**6.2**	**18**	**21**
Copper	620	9400	700	3.4	5.6	7.8	7.8	7.7	10	8.2	36	3.6	17	29
Iron	11000	100000	150	**4900**	**3700**	**5900**	**26000**	**24000**	**35000**	**27000**	**34000**	**1800**	**90000**	**32000**
Lead	400	800	270	8.3	5	4.1	11	10	10	12	100	4.4	10	**1900**
Manganese	360	5200	NE	44	20	34	150	160	160	160	120	29	**1400**	320
Nickel	300	4400	130	4.6	4.8	6.1	5.7	5.1	4.5	3.5	37	3.2	7.5	13
Selenium	78	1160	2.1	BDL	BDL	BDL	BDL	BDL	BDL	0.35	0.45	BDL	BDL	0.49
Silver	78	1160	3.4	BDL	BDL	BDL	BDL	BDL	BDL	0.049	0.44	BDL	0.11	0.98
Thallium	0.156	2.4	0.28	0.05	0.048	0.066	0.079	0.078	0.081	0.12	0.14	0.043	**0.19**	**0.18**
Zinc	4600	70000	1200	6.4	8.7	15	14	15	15	24 B	880 B	11 B	52 B	250 B
Mercury	2.2	3.13	1	0.026	0.032	0.045	0.0073	0.018	0.0063	0.017	0.076	BDL	0.057	0.16
Additional Analytes in mg/kg														
Ammonia Nitrogen	NE	NE	NE	50	BDL	190	29	BDL	BDL	220	100	BDL	260	110
Nitrate	26000	100000	NE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate	NE	NE	NE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	Residential PSRG	Industrial PSRG	Protection of Groundwater PSRG	SB-8 (10')	SB-8 (13')	SB-9 (4')	SB-9 (5')	SB-9 (13.5')	SB-10 (5')	SB-10 (10')	SB-10 (12.5')	SB-11 (8')	SB-11 (10')	SB-11 (12.5')
Sample Date				3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016	3/8/2016
SVOCs TICs in mg/kg														
Tricosane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tridecane, 7-hexyl-	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tritetracontane	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Vitamin E	NE	NE	NE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Metals in mg/kg														
Antimony	6.2	94	0.9	0.038	BDL	0.19	BDL	BDL	0.13	BDL	BDL	0.46	0.029	BDL
Arsenic	0.68	3	5.8	0.49	**0.81**	**1.4**	**1.2**	0.42	**1.2**	**2.1**	0.38	**2**	**0.82**	0.59
Beryllium	32	460	63	0.22	0.54	0.49	0.98	0.16	0.34	0.46	0.33	0.32	0.44	0.3
Cadmium	14.2	196	3	0.17	BDL	0.58	BDL	BDL	0.1	BDL	BDL	0.048	BDL	BDL
Chromium	0.3**	6.3**	3.8**	**10**	**26**	**26**	**11**	**4.8**	**8.4**	**16**	**4.6**	**16**	**6.5**	**5.4**
Copper	620	9400	700	4.6	3	23	10	2.3	19	5.6	2.3	17	6	4.6
Iron	11000	100000	150	**6000**	**7800**	**27000**	**27000**	**3000**	**11000**	**41000**	**2400**	**21000**	**8700**	**6100**
Lead	400	800	270	16	4.4	22	8.1	3.5	10	11	3.6	190	5.3	4.5
Manganese	360	5200	NE	60	78	**1200**	140	57	270	46	16	**360**	60	90
Nickel	300	4400	130	3.3	2.9	92	7.3	7.5	3.9	4	2.2	5.4	3.5	2.9
Selenium	78	1160	2.1	BDL	BDL	BDL	BDL	BDL	BDL	0.5	BDL	0.22	BDL	BDL
Silver	78	1160	3.4	0.12	BDL	0.12	BDL	BDL	0.063	0.044	BDL	0.15	BDL	BDL
Thallium	0.156	2.4	0.28	0.057	BDL	**0.2**	0.068	0.043	0.076	0.12	0.03	0.13	0.062	0.04
Zinc	4600	70000	1200	17 B	10 B	91 B	17 B	8.9 B	34 B	16 B	5.9 B	52 B	16 B	13 B
Mercury	2.2	3.13	1	BDL	BDL	0.048	0.014	0.014	0.063	0.045	BDL	0.036	0.0053	BDL
Additional Analytes in mg/kg														
Ammonia Nitrogen	NE	NE	NE	BDL	BDL	160	170	42	68	130	200	180	140	70
Nitrate	26000	100000	NE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL
Sulfate	NE	NE	NE	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL

WASTE CHARACTERIZATION ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Notes:
1.) Residential PSRG = Inactive Hazardous Sites Branch (IHSB) Residential Health-Based Preliminary Soil Remediation Goals (PSRG) (April 2016).
2.) Industrial PSRG = IHSB Industrial Health-Based PSRG (April 2016).
3.) Protection of Groundwater PSRG = IHSB Protection of Groundwater PSRG (April 2016).
4.) Values reported in mg/kg (milligrams per kilogram).
5.) BDL = Below laboratory detection limits.
6.) Bold = Indicates concentrations above the lowest PSRG.
7.) NE = Screening level not established in the IHSB Preliminary Soil Remediation Goals.
8.) * = No Protection of Groundwater PSRG established for m&p xylenes or o-xylenes. PSRG shown is total xylenes PSRG.
9.) ** = No PSRG established for total chromium. PSRG shown for total chromium is chromium VI PSRG.
10.) B = Analyte was detected in the associated method blank.
11.) N/A = Not applicable.

TABLE 4

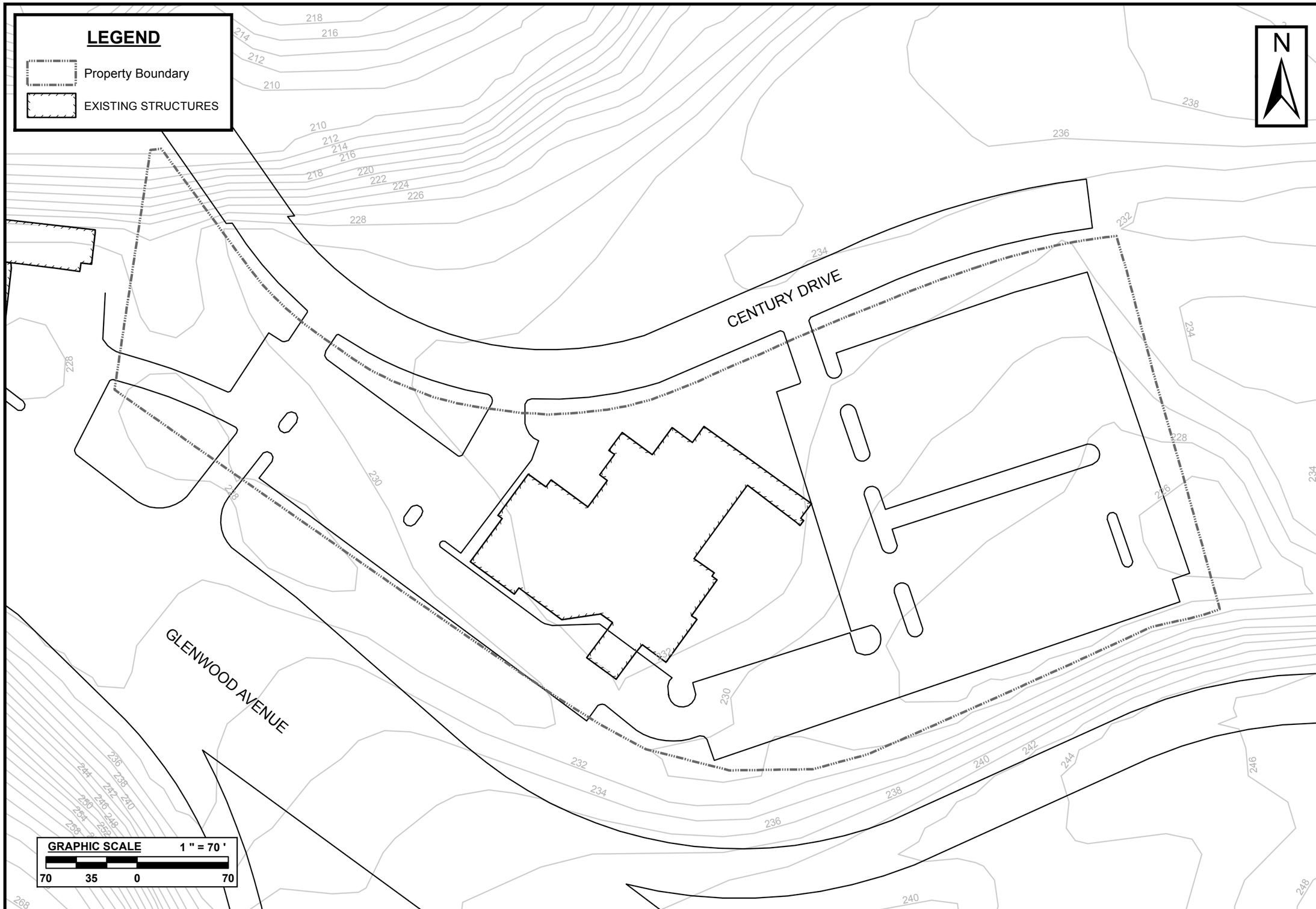
RINSATE ANALYTICAL DATA

Old Raleigh #9
NCD980845903
Raleigh, Wake County, North Carolina

Parameter	NC 2L Standard	EB-1
Sample Date		3/7/2016
Metals in ug/L		
Copper	1000	2.2
Lead	15	0.62
Manganese	50	0.44
Zinc	1000	8.9
Additional Analytes in ug/L		
Ammonia Nitrogen	10000	560

Notes:
1.) NC 2L Standard = Title 15A NCAC 2L Groundwater Rules (April 1, 2013).
2.) EB-1 was collected from a hand auger used for soil sampling during the March 2016 field event.

FIGURES



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ATC Associates of North Carolina, P.C.
Raleigh, North Carolina, 27604
(919) 871-0999

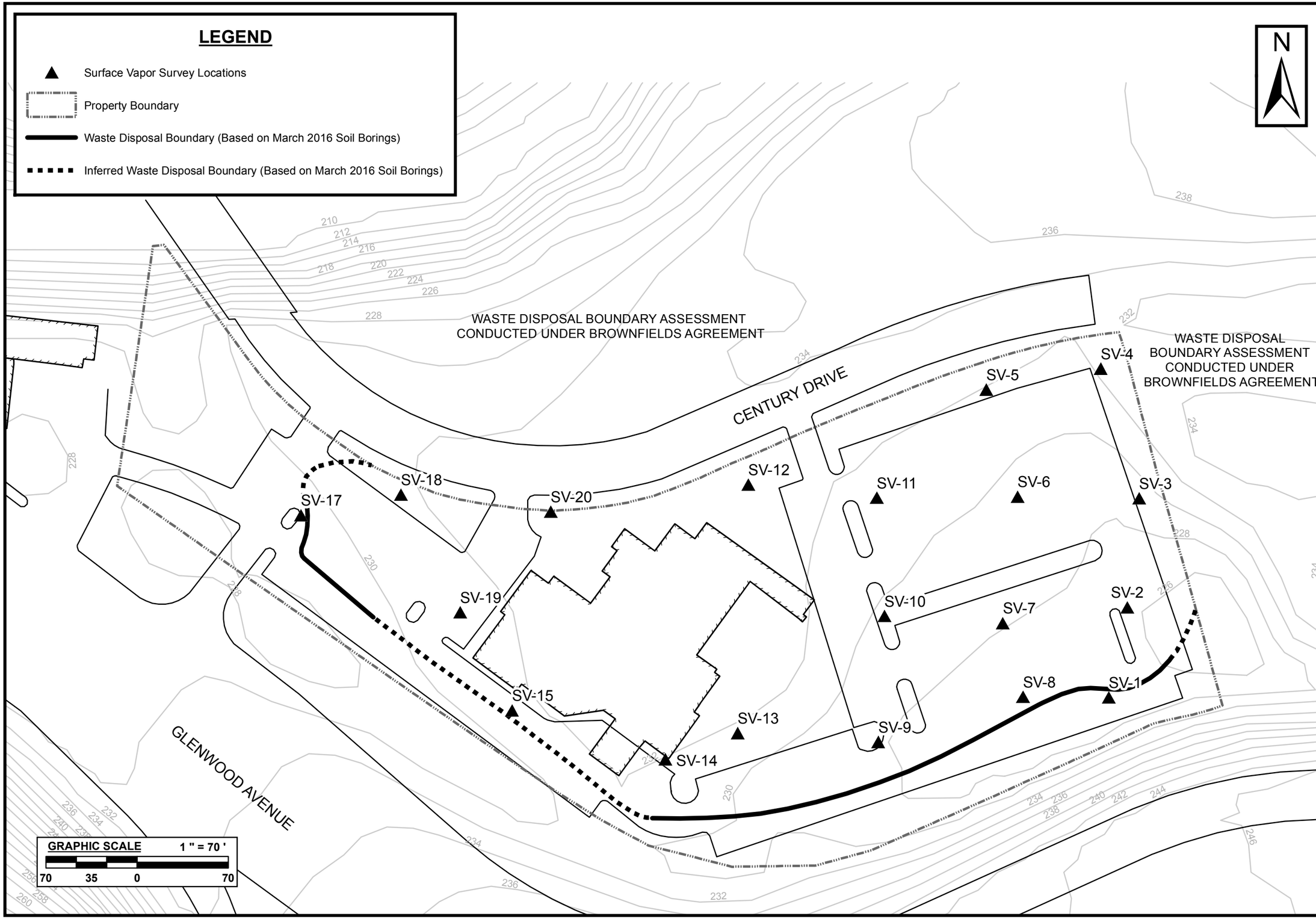
PROJECT NO: PRLU5903B
DATE: 4/25/2016
SCALE: 1 " = 70 '
REV: JB
PREP: RH

TITLE: FIGURE 1 SITE MAP
OLD RALEIGH #9 - HOWARD JOHNSON
CRABTREE LANDFILL
NCD980845903
4100 GLENWOOD AVENUE
RALEIGH, WAKE COUNTY, NORTH CAROLINA

MAP FILE: FIGURE 1.mxd

DATA SOURCES:
ESRI, 2016
Wake County GIS, 2016

S:\GIS_GPS\Project_Folders\LF-Old\Raleigh\FIGURE 1.mxd



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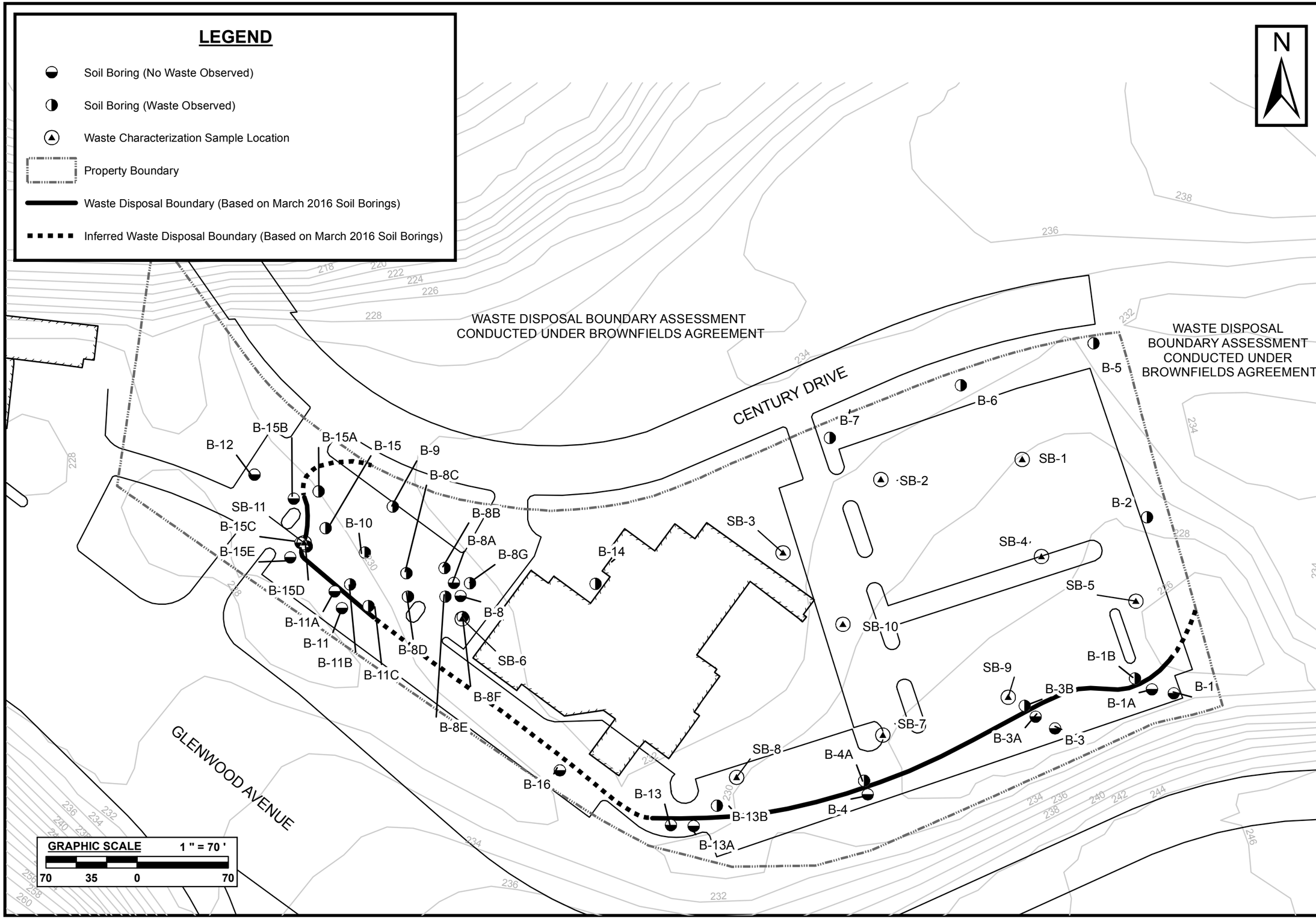
PROJECT NO: PRLU5903B
DATE: 5/3/2016
SCALE: 1 " = 70 '
REV: JB
PREP: RH

TITLE: FIGURE 2 SURFACE VAPOR SUREY MAP
OLD RALEIGH #9 - HOWARD JOHNSON
CRABTREE LANDFILL
NCD980845903
4100 GLENWOOD AVENUE
RALEIGH, WAKE COUNTY, NORTH CAROLINA

MAP FILE: FIGURE 5.mxd

DATA SOURCES:
ESRI, 2016
Wake County GIS, 2016

S:\GIS_GPS\Project_Folders\LF-OldRaleigh9\FIGURE 5.mxd



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Raleigh, North Carolina, 27604
(919) 871-0999

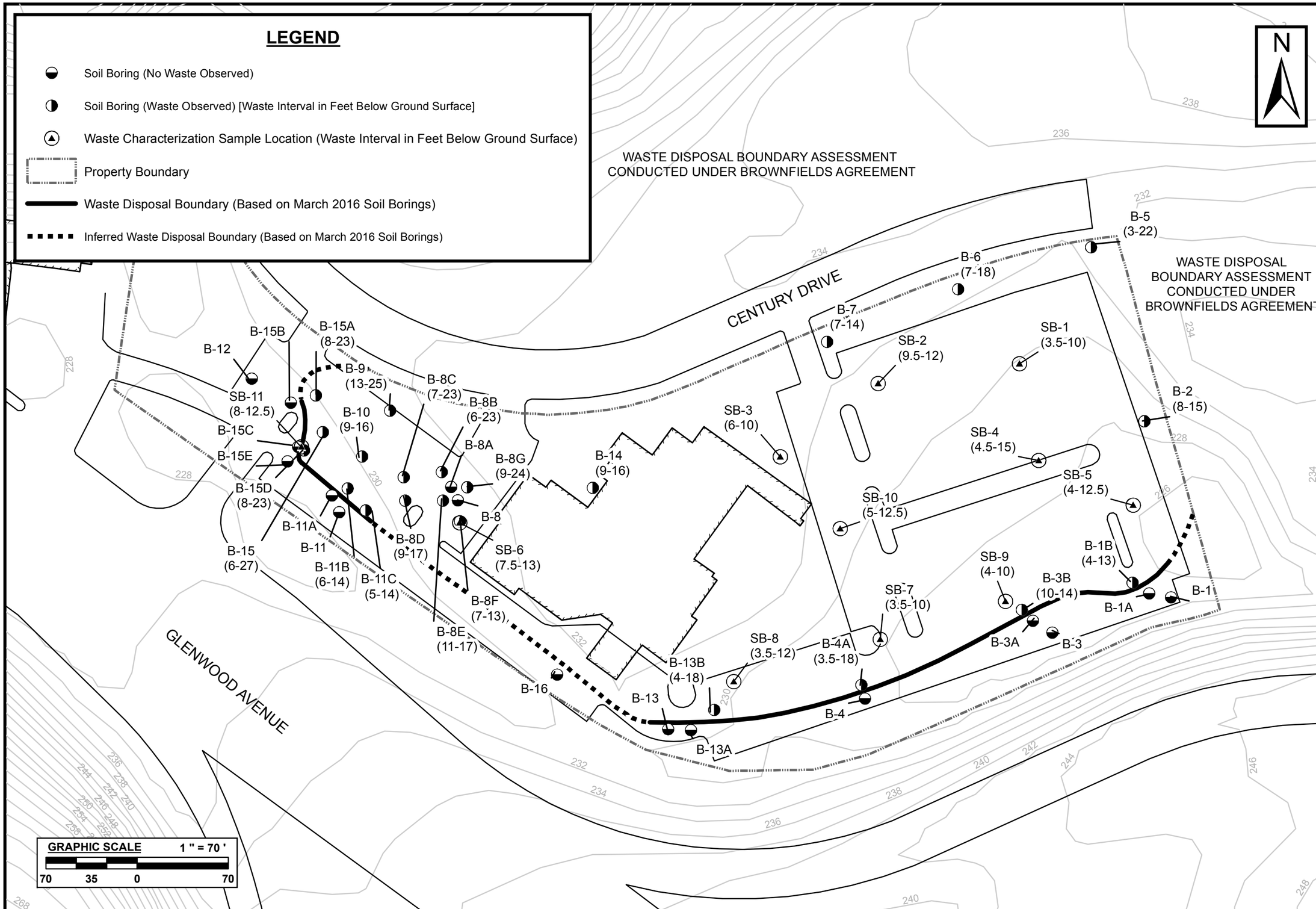
PROJECT NO: PRLU5903B
DATE: 5/3/2016
SCALE: 1 " = 70 '
REV: JB
PREP: RH

TITLE: FIGURE 3 INVESTIGATION LOCATIONS MAP
OLD RALEIGH #9 - HOWARD JOHNSON
CRABTREE LANDFILL
NCD980845903
4100 GLENWOOD AVENUE
RALEIGH, WAKE COUNTY, NORTH CAROLINA

MAP FILE: FIGURE 2.mxd

DATA SOURCES:
ESRI, 2016
Wake County GIS, 2016

S:\GIS_GPS\Project_Folders\LF-OldRaleigh9\FIGURE 2.mxd



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Raleigh, North Carolina, 27604
(919) 871-0999

PROJECT NO: PRLU5903B
DATE: 5/3/2016
SCALE: 1 " = 70 '
REV: JB
PREP: RH

TITLE: FIGURE 4 WASTE DISPOSAL BOUNDARY DELINEATION MAP
OLD RALEIGH #9 - HOWARD JOHNSON
CRABTREE LANDFILL
NCD980845903
4100 GLENWOOD AVENUE
RALEIGH, WAKE COUNTY, NORTH CAROLINA

MAP FILE: FIGURE 3.mxd

DATA SOURCES:
ESRI, 2016
Wake County GIS, 2016

S:\GIS_GPS\Project_Folders\LF-OldRaleigh\FIGURE 3.mxd

LEGEND

- Waste Characterization Sample Location
- Property Boundary
- Waste Disposal Boundary (Based on March 2016 Soil Borings)
- Inferred Waste Disposal Boundary (Based on March 2016 Soil Borings)

NOTE: CONCENTRATIONS SHOWN REFLECT EXCEEDENCES OF LOWEST PRELIMINARY SOIL REMEDIATION GOALS (PSRG'S) (APRIL 2016).

mg/Kg MILLIGRAMS PER KILOGRAM

* ANALYSIS FOR TOTAL CHROMIUM ONLY. EXCEEDENCES LISTED FOR CHROMIUM ARE BASED ON CHROMIUM VI PSRG'S.

** ANALYTE CONCENTRATIONS REPRESENTATIVE OF SAMPLE DUPLICATE

<PSRG CONCENTRATION IS LESS THAN PSRG

N

WASTE DISPOSAL BOUNDARY ASSESSMENT CONDUCTED UNDER BROWNFIELDS AGREEMENT

WASTE DISPOSAL BOUNDARY ASSESSMENT CONDUCTED UNDER BROWNFIELDS AGREEMENT

CENTURY DRIVE

GLENWOOD AVENUE

PARAMETER	SB-2 (10')	SB-2 (12')
SAMPLE DATE	3/4/2016	3/4/2016
METALS (mg/kg)		
Arsenic	<PSRG	0.72
Chromium	9.2*	10*
Iron	11000	20000
Manganese	<PSRG	1500
SVOCs (mg/kg)		
Benzo(a)anthracene	0.3	<PSRG
Benzo(a)pyrene	0.27	<PSRG
Benzo(b)fluoranthene	0.34	<PSRG
Ideno(1,2,3-cd)pyrene	0.17	<PSRG

PARAMETER	SB-1 (3.5')	SB-1 (5-10')	SB-1 (10)
SAMPLE DATE	3/7/2016	3/7/2016	3/7/2016
METALS (mg/kg)			
Arsenic	<PSRG	1.3	<PSRG
Chromium	11*	14*	10*
Iron	17000**	32000	8500
Silver	<PSRG	3.9	<PSRG
SVOCs (mg/kg)			
Benzo(a)pyrene	<PSRG	0.087	<PSRG

PARAMETER	SB-4 (4.5')	SB-4 (5-10')	SB-4 (10-15')
SAMPLE DATE	3/7/2016	3/7/2016	3/7/2016
METALS (mg/kg)			
Antimony	81	<PSRG	<PSRG
Arsenic	7.2	1.8	<PSRG
Cadmium	46	4	<PSRG
Chromium	100*	20*	9.1*
Copper	9600	<PSRG	<PSRG
Iron	100000	30000	9200
Lead	19000	<PSRG	<PSRG
Manganese	520	520	<PSRG
Nickel	5400	<PSRG	<PSRG
Zinc	5300	<PSRG	<PSRG

PARAMETER	SB-3 (6')	SB-3 (12.5')
SAMPLE DATE	3/4/2016	3/4/2016
METALS (mg/kg)		
Arsenic	1	<PSRG
Chromium	12*	10*
Iron	20000	4600
Manganese	440	<PSRG

PARAMETER	SB-11 (8')	SB-11 (10')	SB-11 (12.5')
SAMPLE DATE	3/8/2016	3/8/2016	3/8/2016
METALS (mg/kg)			
Arsenic	2	0.82	<PSRG
Chromium	16*	6.5*	5.4*
Iron	21000	8700	6100
Manganese	360	<PSRG	<PSRG

PARAMETER	SB-10 (5')	SB-10 (10')	SB-10 (12.5')
SAMPLE DATE	3/8/2016	3/8/2016	3/8/2016
METALS (mg/kg)			
Arsenic	1.2	2.1	<PSRG
Chromium	8.4*	16*	4.6*
Iron	11000	41000	2400
VOCs (mg/kg)			
1,4-Dioxane	<PSRG	0.033	<PSRG

PARAMETER	SB-5 (4')	SB-5 (5')	SB-5 (12.5')
SAMPLE DATE	3/7/2016	3/7/2016	3/7/2016
METALS (mg/kg)			
Chromium	11*	7*	9.5*
Iron	4900	3700	5900

PARAMETER	SB-6 (7.5')	SB-6 (10')	SB-6 (12.5')
SAMPLE DATE	3/7/2016	3/7/2016	3/7/2016
METALS (mg/kg)			
Arsenic	1.4	1.2	1.4
Chromium	17*	14*	24*
Iron	26000	24000	35000

PARAMETER	SB-8 (3.5')	SB-8 (5-10')	SB-8 (10')	SB-8 (13')
SAMPLE DATE	3/8/2016	3/8/2016	3/8/2016	3/8/2016
METALS (mg/kg)				
Antimony	<PSRG	1.5	<PSRG	<PSRG
Arsenic	3.8	2.9	<PSRG	0.81
Cadmium	<PSRG	3.2	<PSRG	<PSRG
Chromium	18*	21*	10*	26*
Iron	90000	32000	6000	7800
Lead	<PSRG	1900	<PSRG	<PSRG
Manganese	1400	<PSRG	<PSRG	<PSRG
Thallium	0.19	0.18	<PSRG	<PSRG
VOCs (mg/kg)				
Tetrachloroethylene	<PSRG	0.065	6.3	6.7
Trichloroethylene	<PSRG	<PSRG	3.2	2.8
Vinyl Chloride	<PSRG	<PSRG	0.0037	0.0041
SVOCs (mg/kg)				
Bis(2-Ethylhexyl)phthalate	<PSRG	20	<PSRG	<PSRG
Naphthalene	<PSRG	0.24	<PSRG	<PSRG

PARAMETER	SB-7 (3.5')	SB-7 (5-10')	SB-7 (12.5')
SAMPLE DATE	3/7/2016	3/7/2016	3/7/2016
METALS (mg/kg)			
Arsenic	1.9	2.1	<PSRG
Chromium	15*	23*	6.2*
Iron	27000	34000	1800
VOCs (mg/kg)			
1,4-Dioxane	<PSRG	0.049	0.015

PARAMETER	SB-9 (4')	SB-9 (5')	SB-9 (13.5')
SAMPLE DATE	3/8/2016	3/8/2016	3/8/2016
METALS (mg/kg)			
Arsenic	1.4	1.2	<PSRG
Chromium	26*	11*	4.8*
Iron	27000	27000	3000
Manganese	1200	<PSRG	<PSRG
Thallium	0.2	<PSRG	<PSRG
SVOCs (mg/kg)			
Benzo(a)pyrene	0.11	<PSRG	<PSRG
Benzo(b)fluoranthene	0.16	<PSRG	<PSRG

GRAPHIC SCALE 1 " = 70 '

70 35 0 70

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PROJECT NO: PRLU5903B

DATE: 5/3/2016

SCALE: 1 " = 70 '

REV: JB

PREP: RH

TITLE: FIGURE 5 WASTE CHARACTERIZATION EXCEEDENCES MAP
OLD RALEIGH #9 - HOWARD JOHNSON
CRABTREE LANDFILL
NCD980845903
4100 GLENWOOD AVENUE
RALEIGH, WAKE COUNTY, NORTH CAROLINA

MAP FILE: FIGURE 4.mxd

DATA SOURCES:
ESRI, 2016
Wake County GIS, 2016

S:\GIS_GPS\Project_Folders\LF-Old\Raleigh9\FIGURE 4.mxd

APPENDIX A

FIELD NOTES, INSTRUMENT CALIBRATION LOGS, AND DATA SHEETS

WEATHER: SUNNY, ~55°F

2/29/16 (4)

ORLF #9

BEGINNING MILEAGE: 119253

0755: R. HARRELL & A. MCMILLAN ON SITE (ATC).

0800: DRONE AROUND SITE TO LOOK AT PREVIOUSLY MARKED UTILITIES (PERFORMED BY 811/ONE CALL). H&S MEETING.

0810: SPOKE WITH HOTEL PERSONNEL AT THE FRONT DESK OF THE HOLIDAY INN TO INFORM THEM OF WORK TO BE PERFORMED.

0815: BEGAN CALIBRATING MULTIRAE FOR BREATHING ZONE MONITORING.

0850: GEOLOGIC EXPLORATION ON SITE (K. SARGENT + J. RINGLER)
MCADAMS CO. ON SITE (KENNETH WILLIAMS)

0855: CONDUCTED SAFETY MEETING WITH ALL PERSONNEL

GEOPROBE ON SITE IS GEOPROBE 3230DT

0900: MCADAMS BEGINS LOCATE
A. MCMILLAN MARKING PRE-DETERMINED BORING LOCATIONS

0925: BEGIN WASTE DELINEATION AT B-1. SEE BORING LOG FOR DETAILS.

0950: BEGAN BORING B-1A. SEE LOG FOR DETAILS.

2/29/16

ORLF #9

2/29/16 (5)

1020: BEGIN BORING B-1B. SEE LOG FOR DETAILS.
WASTE FROM 4-13 FEET bgs.

1055: BEGIN BORING B-2, SEE LOG FOR DETAILS.
WASTE FROM 8-15 FEET bgs.

1135: BEGIN BORING B-3. SEE LOG FOR DETAILS

1215: ALL PERSONNEL OFF SITE FOR LUNCH

1330: ALL PERSONNEL ON SITE. ATC PERSONNEL STOPPED AT OFFICE TO PICK-UP FENCING FOR IDW.

1340: BEGIN BORING B-3A. SEE LOG FOR DETAILS

1410: BEGIN BORING B-3B. SEE LOG FOR DETAILS. WASTE FROM 10-14 FEET bgs.

1450: BEGIN BORING B-4. SEE LOG FOR DETAILS

1550: BEGIN BORING B-4A. SEE LOG FOR DETAILS.

1605: STOPPED DRILLING AT B-4A DUE TO HIGH METHANE IN BORE HOLE. WILL ALLOW IT TO OFF-GAS OVERNIGHT PER INSTRUCTIONS FROM J. BALLARD. BARRICADED OPEN BOREHOLE.

1640: ALL PERSONNEL OFF SITE.

2/29/16

WEATHER: SUNNY, ~50°F

ORLF #9

0725: R. HARRELL (ATC) ON SITE
BEGIN CALIBRATING MULTI RAE
0730: GES (K. SARGENT & J. RINGER) ON SITE
REVIEW HASP/SAFETY MEETING
0740: CHECKED METHANE LEVEL IN BORING B-4A. (LEL=0). RESTARTED BORING AT 0750.
WASTE = 3.5-18' bgs
0840: STARTED BORING B-5.
WASTE = 3-22' bgs
1015: STARTED BORING B-6.
WASTE = 7-18' bgs
1100: STARTED BORING B-7
WASTE = 7-14' bgs
1145: ALL PERSONNEL OFF SITE FOR LUNCH.
1245: R. HARRELL (ATC) ON SITE
1300: GES ON SITE.
1315: STARTED BORING B-8.
1410: STARTED BORING B-9.
1425: S. BALLARD ON SITE, REVIEWED HASP.
1445: S. BALLARD OFF SITE.
1450: COMPLETED B-9, WASTE FROM 13-22' bgs.

3/1/14
ROBERT HARRELL

ORLF #9

1520: STARTED BORING B-10. WASTE FROM 9-16' bgs.
1605: STARTED BORING B-11.
1725: ALL PERSONNEL OFF SITE.

ROBERT HARRELL 3/1/14

WEATHER:
SUNNY, 50°F

ORLF #9

(8)

3/2/16

0720: R. HARRELL (ATC) ON SITE.
K. SARGENT + J. RINGLER (GES) ON SITE.
0725: REVIEWED HASP, SAFETY MEETING.
0730: CALIBRATED MULTIRAE
0740: BEGAN BORING B-12.
~~0800~~ RH 0900: BEGAN BORING B-13.
0950: BEGAN BORING B-13A
1045: BEGAN BORING B-13B
WASTE: 4-18' bgs
1130: BEGAN BORING B-14
WASTE: 9-16' bgs
1215: ALL PERSONNEL OFF SITE FOR LUNCH

13:30 Cory Nobles arrives onsite.
REVIEWED HASP
1340: BEGAN BORING B-8A.
1425: BEGAN BORING B-8B. WASTE FROM 6-23' bgs
1600: R. HARRELL ON SITE
1605: BEGAN BORING B-8C.
1620: C. NOBLES OFF SITE
1640: COMPLETED BORING B-8C. WASTE 7-23' bgs
1715: ALL PERSONNEL OFF SITE. 3/2/16
R. Bert Harrell

WEATHER:
SUNNY, ~30°F

ORLF #9

(9)

3/3/16

0730: R. HARRELL (ATC) ON SITE
GES (K. SARGENT & J. RINGLER) ON SITE, REVIEWED HASP & HELD SAFETY MEETING
0735: CALIBRATED MULTIRAE.
0740: BEGAN BORING B-8D. WASTE FROM 9-17' bgs
0830: BEGAN BORING B-8E, WASTE FROM 11-17' bgs.
0925: BEGAN BORING B-8F, WASTE FROM 7-13' bgs.
1020: BEGAN BORING B-8G. WASTE FROM 2-24' bgs. FROM 2-~~1~~ RH 9 AND 19-24, WASTE WAS SPARSE.
1130: ALL PERSONNEL OFF SITE FOR LUNCH
1220: R. HARRELL (ATC) ON SITE
1230: GES ON SITE.
1240: BEGAN BORING B-15. WASTE FROM 6-21 AND 22-27.
1335: BEGAN BORING B-15A. WASTE FROM 8-23.
1410: BEGAN BORING B-15B.
1440: BEGAN BORING B-15C. REFUSAL AT 6' bgs.
1500: BEGAN BORING B-15D, WASTE FROM 8-12 AND 15-23.
1545: BEGAN BORING B-11A. SINGLE PLASTIC BAG @ 5' bgs.
1630: BEGAN BORING B-11B. WASTE FROM 6-14' bgs.
1720: ALL PERSONNEL OFF SITE. 3/3/16
R. Bert Harrell

WEATHER:
OVERCAST, ~38°F
RAIN PREVIOUS NIGHT

ORLF #9

(10)

3/4/16

0725: R. Harpell (ATC) on site. K. Sarlent & J. Ringler (GES) on site. Calibrated MultiRae.

0730: A. McMillan on site. Held Safety Meeting / Reviewed HASP

0740: Began Boring B-11C. R. Harpell collected GPS location. Waste from 10-14 ft. bgs

0837: Begin Boring B-15E (no waste)

0923: Begin Boring B-16 (No Waste)

Completed Delineation Phase for the week. Began setting rig up for DPT Sampling.

1040: Started boring SB-1. Encountered waste at 4.5' bgs. Will return to location and offset on Monday.

1110: Started boring SB-2. Waste from 9.5-12' bgs.

1150: Collected sample SB-2 (10) from 9.5-12' bgs

1210: Collected sample SB-2(12) from 12.5-15' bgs.

1225: All personnel off site

1320: ATC on site

1330: GES on site

Robert Harpell 3/4/16

ORLF #9

(11)

3/4/16

1355: Began boring SB-3 waste from 6-10' bgs.

1410: Collected sample SB-3(6) from 6-10' bgs. Limited recovery on interval.

1430: Collected sample SB-3 (12.5) from 12.5-15' bgs.

1525: All personnel off site.

End Mileage: 119425

Robert Harpell 3/4/16

WEATHER: SUNNY, 74°F

ORLF #9 3/7/16

BEGINNING MILEAGE 119425

0850: R. HARRELL + A. MCMILLAN (ATC) ON SITE. S. HOBGOOD + C. CAMBLE (CDR GEOMATICS) ON SITE.

0855: REVIEW HASP + SAFETY MEETING

0900: MULTI-RAE CALIBRATION

0920: GES ON SITE. REVIEWED HASP + HAD SAFETY MEETING

0940: BEGAN SB-1 FOR SAMPLING.

0945: COLLECTED SAMPLE SB-1(3.5) FROM 3.5-5' bgs AND DUP-A FROM 3.5-5' bgs.

0955: COLLECTED SAMPLE SB-1(10) FROM 10-15' bgs. ~~LIMITED RECOVERY~~ RH LONG INTERVAL DUE TO LIMITED RECOVERY.

1010: BEGAN SB-4

1020: COLLECTED SAMPLE EB-1 BY POURING DI WATER THROUGH THE BUCKET OF THE HAND AUGER AND IN TO SAMPLE CONTAINERS.

1025: COLLECTED SAMPLE SB-4(4.5) FROM 4.5-5' bgs.

1110: BEGAN SB-5.

1120: SB-5(4) COLLECTED FROM 4-5' bgs.

3/7/16

Robert Harrell

ORLF #9 3/7/16

1130: COLLECTED SAMPLE SB-5(5) FROM 5-10' bgs.

1140: COLLECTED SAMPLE SB-5(12.5) FROM 12.5-~~R.5~~ RH 15' bgs.

NO RECOVERY IN 12.5-15' bgs

1200: ALL PERSONNEL OFF SITE FOR LUNCH.

1300: ON SITE. GES ~~DECONTAMINATING~~ DECONTAMINATING AUGERS

NOTE: DURING LUNCH, SPOKE WITH S. BALLARD REGARDING RECOVERY ISSUES. HE STATED THAT IN AREAS WITH LOW/NO RECOVERY, SAMPLES COULD BE COLLECTED RH IN 5 FOOT ~~THE~~ RH INCREMENTS USING HOLLOW STEM AUGERS RATHER THAN TEFLON DPT SLEEVES. AS COMPOSITE SAMPLES

1320: BEGAN OFFSET AT SB-1 TO COLLECT AUGER SAMPLE FROM 5-10' bgs.

1330: COLLECTED SB-1(5-10) AS COMPOSITE SAMPLE FROM 5-10' bgs.

RH ~~1400~~ 1350: BEGAN OFFSET AT SB-4 TO COLLECT AUGER SAMPLES FROM 5-10' AND 10-15' bgs.

1405: COLLECTED SAMPLE SB-4(5-10) AS COMPOSITE SAMPLE FROM 5-10' bgs

1410: COLLECTED SAMPLE SB-4(10-15) AS COMPOSITE SAMPLE FROM 10-15' bgs.

3/7/16

Robert Harrell

~~End Mileage~~

(14)

ORLF #9 3/7/16

1450: Began boring SB-6.

1510: Collected sample SB-6(7.5) from 7.5-10' bgs.

1520: Collected sample SB-6 (10) from 10-12.5' bgs.

1525: Collected sample SB-6 (12.5) from 12.5-15' bgs

1530: Brent ~~[illegible]~~ (QA/QC) on site. Gave samples from 3/4 & 3/7/16 up to this point.

1540: Brent off site

1550: Began boring SB-7

1600: Collected sample SB-7 (3.5) from 3.5-5' bgs.

1615: Collected sample SB-7 (12.5) from 12.5-15' bgs.

1625: Collected sample SB-7 (5-10) as composite sample from 5-10' bgs.

1715: ~~R.H.~~ All personnel off site.

3/7/16

(15)

3-8-16 ORLF #9

0740 Arrive @ site / GEX ovsik CDKorsik Conduct HAS Meeting

0755 RW Arrive

0820 Begin SB-8 boring

0830 Collected SB-8 (3.5) from 3.5-5 ft bgs

0850 Collected SB-8 (10) from 10-12 ft bgs

0900 Collected SB-8 (13) from 13-15' bgs

0905 Collected SB-8 (5-10) from 5-10' bgs

0911 forwarded Contact info of Survey employee to PM

0934 Begin boring SB-9

1005 Collected SB-9 (4) from 4-5' bgs

1015 Collected SB-9 (5) f. 5-10' bgs

(16) 3-8-16 OLD Raleigh #9
LDFL

1025 Collected SB-9 (13.5) from 13.5-15' bgs

1045 Begin Boring SB-10

1120 Collected SB-10 (5) from 5-10' bgs (due to limited recovery)

1130 Collected SB-10 (10) from 10-12.5

1135 Collected SB-10 (12.5) from 12.5-15

1140 Spoke w/ JB- instructed to Collect one additional boring by ISD

1157 Break for lunch

1245 Arrive @ site & move to SB-11

3-8-16 Old Raleigh #9
LDFL (17)

1317 Collected SB-11 (8) from 8-10' bgs

1325 SB-11 (10) from 10-12.5' bgs Collected

1330 Collected SB-11 (12.5) from 12.5-15' bgs

1348 Begin deconning & Cleaning work area

1427 AM Depart Site / RW Observe drillers

1455 Stopped for fuel Arrive @ office

Mileage: 119516

AM

WEATHER:
SUNNY, ~60°F

ORLF #9

3/10/14

(18)

BEGINNING MILEAGE: 119726

0810: R. HARRELL & A. McMILLAN ON SITE. REVIEWED HASP & HAD SAFETY MEETING

0815: CALIBRATED GEM & PID

0845: BEGAN SURFACE VAPOR SURVEY

0935: PERFORMED BUMP TEST ON GEM & PID. ALL READINGS WITHIN LIMITS.

1010: COMPLETED SURFACE VAPOR SURVEY. PERFORMED BUMP TEST ON GEM & PID. ALL READINGS WITHIN LIMITS.

1015: BEGAN GPS OF ~~SURVEY~~ ~~VAPOR~~ SURFACE VAPOR SURVEY POINTS AND SOIL SAMPLING LOCATIONS.

1130: COMPLETED GPS COLLECTION.

1350: ALL PERSONNEL OFF SITE.

1422: Called off Pine Rental GEM 2000 - Conf. #: F00089

END MILEAGE: 119746

3/10/14

ATC ASSOCIATES OF NORTH CAROLINA, P.C.
Engineering Individual Solutions

Air Monitoring Instrument Calibration Log

2725 East Millbrook Road
Suite 121
Raleigh, NC 27604
Tel: 919-871-0999
Fax: 919-871-0335
www.atcassociates.com
N.C. Engineering License No. C-1598

Date, Time, Calibrating Personnel	Instrument: Manufacturer Model #/Serial #	Battery Check OK?	Zero Calibration Reading (ppm)	Calibration Gas and Concentration	Calibration Gas Reading (ppm)	Bump test: before, during or after evaluation	Factory Calibration Date	Detection Limit (specify units)	Additional Notes
2/21/16 0815 R. Harper A. McMillan	MultiRAE Plus/PGM-50-SP/095-521544	✓	0	CO-50ppm H_2S-25ppm CH_4-2.5% N_2-BAL	RH	49 25 2.4 ~~RH~~	1/21/16		
3/1/16 0725 R. Harper	MultiRAE Plus/PGM-50-SP/095-521544	✓	0	Isobutylene CO H_2S CH_4	100ppm 50ppm 25ppm 2.5%/50%LEL	99.6 49 24 49%	1/21/16		
3/2/16 0730 R. Harper	MultiRAE Plus/PGM-50-SP/095-521544	✓	0	Isobutylene CO H_2S CH_4	100ppm 50ppm 25ppm 50% LEL	50 25 49	1/21/16		
3/3/16 0735 R. Harper	MultiRAE Plus/PGM-50-SP/095-521544	✓	0	Isobutylene CO H_2S CH_4	100ppm 50ppm 25ppm 50% LEL	50 24 49	1/21/16		
3/4/16 0725 R. Harper	MultiRAE Plus/PGM-50-SP/095-521544	✓	0	Isobutylene CO H_2S CH_4	100ppm 50 25 ~~53~~ 50 RH	99 51 25 53	1/21/16		
3/7/16 0900 R. Harper	MultiRAE Plus/PGM-50-SP/095-521544	✓	0	Isobutylene CO H_2S CH_4	100ppm ~~51~~ 50 RH ~~24~~ 25 RH ~~53~~ 50 RH	100 51 24 53	1/21/16		
3-8-16 0811 A. McMillan	MultiRAE Plus PGM 50SP/095-521544	✓	0	Isobutylene CO H_2S CH_4	100ppm 50 25 50 100	100	1-21-16		
3/10/16 0815 R. Harper	GEM-2000 By Landtec SN: R11180	✓	0	Isobutylene CO_2 CH_4 CO H_2S	35%vol 50%vol 50ppm 25ppm	55.01 49.99 50 23	3/20/14		
3/10/16 0815 R. Harper	RAE/MWI RAE2000/110-009771	✓	0	Isobutylene	100ppm	100	2/22/16		

Notes:
1. Field instruments must be calibrated in accordance with manufacturer specifications
2. Bump tests should be performed before, during, and after field evaluation to confirm calibration; and may be noted in field book
3. If field conditions (e.g. barometric pressure, temperature, humidity) change significantly, recalibration should be completed and documented
4. All field calibrations must be documented.

Rev. 9/22/14_ED

ATC ASSOCIATES OF NORTH CAROLINA, P.C.
Engineering Individual Solutions

Surface Vapor Survey
Field Measurements Form

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Raleigh, NC 27604
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Fax: 919-871-0335
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Project Name:	Old Raleigh #9	ATC Project #:	NCD980845903
Date:	3-10-16	Personnel:	A. Mcmillan & R. Harrell
Weather Conditions:	Sunny ~63°F		
GEM 2000	SN #: R11180	Calibration:	3-9-16
Hygrometer	SN #: ~~N/A~~ 20120918091 1	Calibration:	~~3~~ N/A
~~Jerome 631X~~	SN #: N/A	Calibration:	N/A
MiniRAE	SN #: 110-009779	Calibration:	3-9-16

Sample ID	Time of Collection	Northing	Easting	Methane (CH4) (% by vol.)	Oxygen (%)	Carbon Dioxide (CO2) (%)	Barometric Pressure (in. Hg)	Temp. °F ~~(°C)~~	Humidity (%)	Hydrogen Sulfide (H2S) (ppm)	Total VOCs (ppm)	Notes
SV-1	0846			0	20.4	0.1	30.07	63.84	64.85	0	0.0	
SV-2	0854			0	20.5	00.1	30.07	64.02	63.64	1	0.0	
SV-3	0859			0	20.5	0	30.07	63.08	63.02	0	0.0	
SV-4	0903			0	20.4	00.1	30.07	67.10	69.12	0	0	
SV-5	0907			0	20.4	00.1	30.07	66.66	57.11	0	0	
SV-6	0911			0	20.4	00.1	30.07	69.66	63.51	0	0	
SV-7	0916			0	20.4	00.1	30.07	62.09	66.03	0	0	
SV-8	0919			0	20.4	00.1	30.07	64.60	61.54	0	0	
SV-9	0922			0	20.4	00.1	30.07	66.25	64.4	0	0	
SV-9 DUP-1	0925			0	20.4	00.1	30.07	66.19	64.82	0	0	
SV-10	0929			0	20.5	00.0	30.07	63.84	64.97	0	0	
SV-11	0933			0	20.5	00.0	30.07	65.30	59.71	0	0	

Notes:

1. Use BG designation for Background Readings.
2. Barometric readings, ambient temperature, and humidity should be recorded at least hourly.

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Surface Vapor Survey
Field Measurements Form

Sample ID	Time of Collection	Northing	Easting	Methane (CH4) (% by vol.)	Oxygen (%)	Carbon Dioxide (CO2) (%)	Barometric Pressure (in. Hg)	Temp. °F ~~(°C)~~	Humidity (%)	Hydrogen Sulfide (H2S) (ppm)	Total VOCs (ppm)	Notes
SV-12	0940			0	20.5	0	30.07	64.41	60.78	0	0	
SV-13	0943			0	20.5	0	30.07	66.41	64.95	1	0	
SV-14	0948			0	20.6	0	30.07	63.75	60.93	0	0	
SV-15	0953			0	20.6	0	30.07	65.93	53.75	0	0	
SV-16	0955			0	20.6	0	30.07	67.19	52.72	0	0	
CSV-16	DUP-2	0958		0	20.6	0	30.07	67.11	52.82	0	0	
SV-17	1001			0	20.5	0	30.07	67.37	47.39	0	0	
SV-18	1004			0	20.5	0	30.07	67.58	49.86	0	0	
SV-19	1007			0	20.4	0	30.07	67.47	50.63	0	0	
SV-20	1010			0	20.4	0	30.07	68.68	61.04	0	0	
BG	1015			0	20.4	0	30.07	68.56	61.10	0	0	

Notes:

1. Use BG designation for Background Readings.
2. Barometric readings, ambient temperature, and humidity should be recorded at least hourly.

APPENDIX B

LABORATORY ANALYTICAL REPORTS

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 14, 2016

Justin Ballard
ATC Group Services LLC - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604

Project Location: Raleigh, NC
Client Job Number:
Project Number: Old Raleigh #9
Laboratory Work Order Number: 16C0303

Enclosed are results of analyses for samples received by the laboratory on March 7, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 6

Sample Results 10

16C0303-01 10

16C0303-02 19

16C0303-03 28

16C0303-04 37

16C0303-05 46

Sample Preparation Information 48

QC Data 50

Volatile Organic Compounds by GC/MS 50

B143867 50

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) 54

B143867 54

Volatile Organic Compounds by GC/MS (SIM) 55

B144066 55

Semivolatile Organic Compounds by GC/MS 56

B143797 56

B143797 64

Metals Analyses (Total) 65

B143826 65

B143829 65

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 67

B143794 67

B143821 67

Table of Contents (continued)

B143849 67

B143862 67

Flag/Qualifier Summary 69

Certifications 70

Chain of Custody/Sample Receipt 74

con-test® ANALYTICAL LABORATORY

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ATC Group Services LLC - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 3/14/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: Old Raleigh #9

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0303

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-2 (10)	16C0303-01	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-2 (12)	16C0303-02	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-3 (6)	16C0303-03	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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ATC Group Services LLC - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 3/14/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: Old Raleigh #9

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0303

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-3 (12.5)	16C0303-04	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank	16C0303-05	Trip Blank Soil		SW-846 8260B	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

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ASTM D516-07 Modified

Qualifications:

W-06

Elevated method reporting limit due to intense color of sample

Analyte & Samples(s) Qualified:

Sulfate

16C0303-01[SB-2 (10)], 16C0303-02[SB-2 (12)], 16C0303-03[SB-3 (6)], B143849-DUP1, B143849-MS1

SW-846 6020A/B

Qualifications:

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

16C0303-01[SB-2 (10)], B143829-MS1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Iron

16C0303-01[SB-2 (10)], B143829-MS1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Manganese

16C0303-01[SB-2 (10)], B143829-DUP1

SW-846 8260B

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane

16C0303-01[SB-2 (10)], 16C0303-02[SB-2 (12)], 16C0303-03[SB-3 (6)], 16C0303-04[SB-3 (12.5)], 16C0303-05[Trip Blank], B143867-BLK1, B143867-BS1, B143867-BSD1

SW-846 8260C

Qualifications:

S-17

Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:

1,4-Dioxane-d8

16C0303-04[SB-3 (12.5)]

SW-846 8270D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

4-Nitrophenol

B143797-BS1

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MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
16C0303-01[SB-2 (10)], B143797-MS1, B143797-MSD1

Benzaldehyde
16C0303-01[SB-2 (10)]

Benzo(k)fluoranthene
16C0303-01[SB-2 (10)]

Hexachlorocyclopentadiene
16C0303-01[SB-2 (10)], B143797-MS1, B143797-MSD1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

4,6-Dinitro-2-methylphenol
B143797-MS1

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
16C0303-01[SB-2 (10)], B143797-MS1, B143797-MSD1

2-Nitrophenol
16C0303-01[SB-2 (10)], B143797-MS1, B143797-MSD1

4,6-Dinitro-2-methylphenol
16C0303-01[SB-2 (10)], B143797-MSD1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

p-Terphenyl-d14
16C0303-04[SB-3 (12.5)]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
16C0303-04[SB-3 (12.5)], B143797-BLK1, B143797-BS1, B143797-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol
16C0303-01[SB-2 (10)], 16C0303-02[SB-2 (12)], 16C0303-03[SB-3 (6)], 16C0303-04[SB-3 (12.5)], B143797-BLK1, B143797-BS1, B143797-BSD1

Benzaldehyde
16C0303-01[SB-2 (10)], 16C0303-02[SB-2 (12)], 16C0303-03[SB-3 (6)], 16C0303-04[SB-3 (12.5)], B143797-BLK1, B143797-BS1, B143797-BSD1, B143797-MS1, B143797-MSD1

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SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50
Sample ID: 16C0303-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.091	0.021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Benzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Bromobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Bromochloromethane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Bromodichloromethane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Bromoform	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Bromomethane	ND	0.0091	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
2-Butanone (MEK)	ND	0.036	0.016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Carbon Disulfide	ND	0.0055	0.0032	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Carbon Tetrachloride	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Chlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Chlorodibromomethane	ND	0.00091	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Chloroethane	ND	0.018	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Chloroform	ND	0.0036	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Chloromethane	ND	0.0091	0.00082	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Cyclohexane	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,2-Dibromoethane (EDB)	ND	0.00091	0.00091	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,4-Dichlorobenzene	0.00093	0.0018	0.00073	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,1-Dichloroethane	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,2-Dichloroethane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,1-Dichloroethylene	ND	0.0036	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,2-Dichloropropane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
cis-1,3-Dichloropropene	ND	0.00091	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
trans-1,3-Dichloropropene	ND	0.00091	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,4-Dioxane	ND	0.091	0.052	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Ethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
2-Hexanone (MBK)	ND	0.018	0.0099	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Methyl Acetate	ND	0.0018	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Methylene Chloride	ND	0.018	0.0065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Styrene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,1,2,2-Tetrachloroethane	ND	0.00091	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Tetrachloroethylene	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Toluene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50
Sample ID: 16C0303-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0018	0.00091	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,1,2-Trichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Trichloroethylene	ND	0.0018	0.00091	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0091	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0091	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
Vinyl Chloride	ND	0.0091	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF
o-Xylene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:15	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	85.6	70-130		3/9/16 9:15
Toluene-d8	96.0	70-130		3/9/16 9:15
4-Bromofluorobenzene	101	70-130		3/9/16 9:15

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50

Sample ID: 16C0303-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 9:15	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50

Sample ID: 16C0303-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0059	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 17:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	140	40-160		3/11/16 17:16

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50
Sample ID: 16C0303-01
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.78	0.40	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 18:11	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	MS-09, V-20	SW-846 8270D	3/8/16	3/12/16 18:11	CMR
Biphenyl	ND	0.78	0.50	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 18:11	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 18:11	CMR
Acenaphthene	0.11	0.20	0.060	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Acetophenone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Anthracene	0.18	0.20	0.057	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Benzo(a)anthracene	0.30	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Benzo(a)pyrene	0.27	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Benzo(b)fluoranthene	0.34	0.20	0.056	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Benzo(g,h,i)perylene	0.18	0.20	0.088	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Benzo(k)fluoranthene	0.13	0.20	0.062	mg/Kg dry	1	MS-09, J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Bis(2-Ethylhexyl)phthalate	0.37	0.40	0.15	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Butylbenzylphthalate	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Carbazole	0.12	0.20	0.051	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
4-Chloroaniline	ND	0.77	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
4-Chloro-3-methylphenol	ND	0.77	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2-Chloronaphthalene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2-Chlorophenol	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Chrysene	0.31	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Dibenzofuran	0.069	0.40	0.069	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Di-n-butylphthalate	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Diethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Dimethylphthalate	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1	R-06	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2,4-Dinitrophenol	ND	0.77	0.23	mg/Kg dry	1	MS-09, R-06	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2,4-Dinitrotoluene	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2,6-Dinitrotoluene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Fluoranthene	0.84	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Fluorene	0.13	0.20	0.064	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Hexachlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Hexachlorobutadiene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Hexachlorocyclopentadiene	ND	0.40	0.084	mg/Kg dry	1	MS-09	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Hexachloroethane	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50
Sample ID: 16C0303-01
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	0.17	0.20	0.14	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Isophorone	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2-Methylphenol	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
3-Nitroaniline	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Nitrobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1	R-06	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
4-Nitrophenol	ND	0.77	0.086	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
N-Nitrosodiphenylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Pentachlorophenol	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Phenanthrene	0.86	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Pyrene	0.77	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2,4,5-Trichlorophenol	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Atrazine	ND	0.78	0.66	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 18:11	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	76.7	30-130		3/11/16 10:56
Phenol-d6	82.5	30-130		3/11/16 10:56
Nitrobenzene-d5	81.6	30-130		3/11/16 10:56
2-Fluorobiphenyl	99.7	30-130		3/11/16 10:56
2,4,6-Tribromophenol	93.9	30-130		3/11/16 10:56
p-Terphenyl-d14	103	30-130		3/11/16 10:56

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50

Sample ID: 16C0303-01

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
.gamma.-Sitosterol	2.1	mg/Kg dry	1604560	12.364	1	000083-47-6	99	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
18-Norabietane	1.9	mg/Kg dry	2187760	5.981	1	1000293-16-6	91	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Pentacosane	1.3	mg/Kg dry	1000270	10.775	1	000629-99-2	94	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Phenanthrene, 1-methyl-7-(1...	7.7	mg/Kg dry	8013660	6.591	1	000483-65-8	99	SW-846 8270D	3/8/16	3/11/16 10:56	CMR
Vitamin E	1.2	mg/Kg dry	923051	10.989	1	000059-02-9	97	SW-846 8270D	3/8/16	3/11/16 10:56	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50

Sample ID: 16C0303-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.033	3.0	0.028	mg/Kg dry	5	MS-07, J	SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Arsenic	0.52	0.28	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Beryllium	0.25	0.38	0.031	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Chromium	9.2	6.9	0.44	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Copper	2.1	6.9	0.072	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Iron	11000	14	6.1	mg/Kg dry	5	MS-19	SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Lead	6.4	2.8	0.058	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Manganese	31	7.2	0.094	mg/Kg dry	5	R-02	SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Mercury	36	27	4.5	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:23	SCB
Nickel	2.7	6.9	0.14	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Selenium	ND	1.2	0.20	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Silver	ND	0.12	0.039	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Thallium	0.067	0.089	0.025	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Zinc	6.5	14	0.22	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH
Cadmium	ND	0.53	0.024	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 10:56	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (10)
Sampled: 3/4/2016 11:50

Sample ID: 16C0303-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	150	33	17	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.9	2.9	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	1100	730	mg/Kg dry	5	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	85.6			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10
Sample ID: 16C0303-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Benzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Bromobenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Bromochloromethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Bromodichloromethane	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Bromoform	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Carbon Disulfide	ND	0.0062	0.0036	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Carbon Tetrachloride	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Chlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Chlorodibromomethane	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Chloroethane	ND	0.021	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Chloroform	ND	0.0041	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Chloromethane	ND	0.010	0.00093	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Cyclohexane	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,1-Dichloroethane	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,2-Dichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,2-Dichloropropane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,4-Dioxane	ND	0.10	0.059	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Ethylbenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
2-Hexanone (MBK)	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Methyl Acetate	ND	0.0021	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Methylene Chloride	ND	0.021	0.0073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0078	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Styrene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Tetrachloroethylene	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Toluene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10
Sample ID: 16C0303-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Trichloroethylene	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
m+p Xylene	ND	0.0041	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF
o-Xylene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 9:43	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.7	70-130		3/9/16 9:43
Toluene-d8	95.7	70-130		3/9/16 9:43
4-Bromofluorobenzene	98.8	70-130		3/9/16 9:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10

Sample ID: 16C0303-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 9:43	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10

Sample ID: 16C0303-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0025	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 17:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	144	40-160		3/11/16 17:45

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10
Sample ID: 16C0303-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.82	0.42	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 18:36	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 18:36	CMR
Biphenyl	ND	0.82	0.52	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 18:36	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 18:36	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Acetophenone	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Butylbenzylphthalate	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Carbazole	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
4-Chloroaniline	ND	0.80	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
4-Chloro-3-methylphenol	ND	0.80	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2-Chloronaphthalene	ND	0.41	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2-Chlorophenol	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Dibenzofuran	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Di-n-butylphthalate	ND	0.41	0.090	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2,4-Dichlorophenol	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Diethylphthalate	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2,4-Dimethylphenol	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Dimethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2,4-Dinitrophenol	ND	0.80	0.24	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2,4-Dinitrotoluene	ND	0.41	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2,6-Dinitrotoluene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Di-n-octylphthalate	ND	0.41	0.22	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Hexachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Hexachlorobutadiene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Hexachlorocyclopentadiene	ND	0.41	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Hexachloroethane	ND	0.41	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10
Sample ID: 16C0303-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Isophorone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
3-Nitroaniline	ND	0.41	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Nitrobenzene	ND	0.41	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
4-Nitrophenol	ND	0.80	0.090	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 10:08	CMR
N-Nitrosodiphenylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Pentachlorophenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Phenol	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2,4,5-Trichlorophenol	ND	0.41	0.094	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:08	CMR
Atrazine	ND	0.82	0.69	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 18:36	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	86.1	30-130		3/11/16 10:08
Phenol-d6	89.9	30-130		3/11/16 10:08
Nitrobenzene-d5	89.8	30-130		3/11/16 10:08
2-Fluorobiphenyl	100	30-130		3/11/16 10:08
2,4,6-Tribromophenol	118	30-130		3/11/16 10:08
p-Terphenyl-d14	118	30-130		3/11/16 10:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10
Sample ID: 16C0303-02
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/8/16	3/11/16 10:08	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10

Sample ID: 16C0303-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.038	3.1	0.029	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Arsenic	0.72	0.28	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Beryllium	0.51	0.39	0.032	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Chromium	10	7.1	0.45	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Copper	9.4	7.1	0.073	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Iron	20000	14	6.2	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Lead	9.0	2.8	0.059	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Manganese	1500	30	0.38	mg/Kg dry	20		SW-846 6020A/B	3/10/16	3/10/16 12:41	MJH
Mercury	6.0	28	4.7	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/10/16 10:24	SCB
Nickel	9.8	7.1	0.15	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Selenium	ND	1.2	0.20	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Silver	ND	0.12	0.040	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Thallium	0.090	0.091	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Zinc	20	14	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH
Cadmium	ND	0.54	0.025	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:37	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-2 (12)
Sampled: 3/4/2016 12:10

Sample ID: 16C0303-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	32	35	18	mg/Kg dry	1	J	SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.9	2.9	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	1200	810	mg/Kg dry	5	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	82.2			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10
Sample ID: 16C0303-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.17	0.16	0.038	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Benzene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Bromobenzene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Bromochloromethane	ND	0.0032	0.0023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Bromodichloromethane	ND	0.0032	0.00097	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Bromoform	ND	0.0032	0.0023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Bromomethane	ND	0.016	0.0027	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
2-Butanone (MEK)	ND	0.064	0.028	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Carbon Disulfide	0.0064	0.0097	0.0056	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Carbon Tetrachloride	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Chlorobenzene	0.036	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Chlorodibromomethane	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Chloroethane	ND	0.032	0.0024	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Chloroform	ND	0.0064	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Chloromethane	ND	0.016	0.0014	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Cyclohexane	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0032	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,2-Dichlorobenzene	0.0031	0.0032	0.0011	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,3-Dichlorobenzene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,4-Dichlorobenzene	0.034	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.032	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,1-Dichloroethane	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,2-Dichloroethane	ND	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,1-Dichloroethylene	ND	0.0064	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
cis-1,2-Dichloroethylene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
trans-1,2-Dichloroethylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,2-Dichloropropane	ND	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
cis-1,3-Dichloropropene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
trans-1,3-Dichloropropene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,4-Dioxane	ND	0.16	0.093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Ethylbenzene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
2-Hexanone (MBK)	ND	0.032	0.018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Isopropylbenzene (Cumene)	0.011	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Methyl Acetate	ND	0.0032	0.0026	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0064	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Methylene Chloride	ND	0.032	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.032	0.012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Styrene	ND	0.0032	0.00097	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Tetrachloroethylene	ND	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Toluene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,2,3-Trichlorobenzene	ND	0.0032	0.00097	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,2,4-Trichlorobenzene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10
Sample ID: 16C0303-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0032	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,1,2-Trichloroethane	ND	0.0032	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Trichloroethylene	ND	0.0032	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.016	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
Vinyl Chloride	ND	0.016	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
m+p Xylene	ND	0.0064	0.0027	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF
o-Xylene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.2	70-130		3/9/16 10:10
Toluene-d8	94.4	70-130		3/9/16 10:10
4-Bromofluorobenzene	101	70-130		3/9/16 10:10

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10
Sample ID: 16C0303-03
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene, 1-methyl-3-(1-meth...	0.079	mg/Kg dry	1025500	10.6	1	000535-77-3	97	SW-846 8260C	3/9/16	3/9/16 10:10	MFF
Indane	0.14	mg/Kg dry	1842480	10.119	1	000496-11-7	87	SW-846 8260C	3/9/16	3/9/16 10:10	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10
Sample ID: 16C0303-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0032	0.0023	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 18:13	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	130	40-160		3/11/16 18:13

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10
Sample ID: 16C0303-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.78	0.40	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:01	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 19:01	CMR
Biphenyl	ND	0.78	0.50	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:01	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:01	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Acetophenone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Bis(2-Ethylhexyl)phthalate	1.4	0.40	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Butylbenzylphthalate	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
4-Chloroaniline	ND	0.77	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
4-Chloro-3-methylphenol	ND	0.77	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2-Chloronaphthalene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2-Chlorophenol	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Di-n-butylphthalate	ND	0.40	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Diethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Dimethylphthalate	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2,4-Dinitrophenol	ND	0.77	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2,4-Dinitrotoluene	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2,6-Dinitrotoluene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Fluoranthene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Hexachlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Hexachlorobutadiene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Hexachlorocyclopentadiene	ND	0.40	0.084	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Hexachloroethane	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10
Sample ID: 16C0303-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Isophorone	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2-Methylphenol	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
3-Nitroaniline	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Nitrobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
4-Nitrophenol	ND	0.77	0.086	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
N-Nitrosodiphenylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Pentachlorophenol	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Pyrene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2,4,5-Trichlorophenol	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Atrazine	ND	0.78	0.66	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:01	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	76.8	30-130		3/11/16 10:31
Phenol-d6	81.8	30-130		3/11/16 10:31
Nitrobenzene-d5	72.5	30-130		3/11/16 10:31
2-Fluorobiphenyl	93.5	30-130		3/11/16 10:31
2,4,6-Tribromophenol	90.8	30-130		3/11/16 10:31
p-Terphenyl-d14	99.3	30-130		3/11/16 10:31

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10
Sample ID: 16C0303-03
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Docosane, 9-butyl-	0.91	mg/Kg dry	829267	9.426	1	055282-14-9	91	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
eicosane	2.3	mg/Kg dry	2054630	12.4	1	000112-95-8	94	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Heptacosane	0.91	mg/Kg dry	919952	8.453	1	000593-49-7	95	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Heptadecane	1.1	mg/Kg dry	1159860	7.809	1	000629-78-7	95	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Hexadecane	1.1	mg/Kg dry	1128860	8.288	1	000544-76-3	93	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Hexatriacontane	1.0	mg/Kg dry	939158	10.778	1	000630-06-8	87	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Nonadecane, 9-methyl-	1.3	mg/Kg dry	1159150	9.012	1	013287-24-6	93	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Octadecane	1.0	mg/Kg dry	927070	10.083	1	000593-45-3	90	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Silane, trichlorooctadecyl-	0.96	mg/Kg dry	870541	10.284	1	000112-04-9	90	SW-846 8270D	3/8/16	3/11/16 10:31	CMR
Tetradecane	1.6	mg/Kg dry	1586050	7.956	1	000629-59-4	94	SW-846 8270D	3/8/16	3/11/16 10:31	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10

Sample ID: 16C0303-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.072	3.2	0.031	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Arsenic	1.0	0.30	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Beryllium	0.30	0.41	0.034	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Chromium	12	7.5	0.47	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Copper	7.4	7.5	0.077	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Iron	20000	15	6.5	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Lead	36	3.0	0.062	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Manganese	440	7.8	0.10	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Mercury	90	28	4.7	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:26	SCB
Nickel	4.5	7.5	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Selenium	ND	1.3	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Silver	ND	0.13	0.042	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Thallium	0.074	0.095	0.027	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Zinc	29	15	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH
Cadmium	ND	0.57	0.026	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:40	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-3 (6)
Sampled: 3/4/2016 14:10

Sample ID: 16C0303-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	150	35	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.9	2.9	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	470	320	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	84.2			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30
Sample ID: 16C0303-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.096	0.022	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Benzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Bromobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Bromochloromethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Bromodichloromethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Bromoform	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Bromomethane	ND	0.0096	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
2-Butanone (MEK)	ND	0.038	0.017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Carbon Disulfide	ND	0.0057	0.0034	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Carbon Tetrachloride	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Chlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Chlorodibromomethane	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Chloroethane	ND	0.019	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Chloroform	ND	0.0038	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Chloromethane	ND	0.0096	0.00086	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Cyclohexane	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,2-Dibromoethane (EDB)	ND	0.00096	0.00096	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,1-Dichloroethane	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,2-Dichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,1-Dichloroethylene	ND	0.0038	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00086	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,2-Dichloropropane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
cis-1,3-Dichloropropene	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
trans-1,3-Dichloropropene	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,4-Dioxane	ND	0.096	0.055	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
2-Hexanone (MBK)	ND	0.019	0.010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Methyl Acetate	ND	0.0019	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00086	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Methylene Chloride	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Styrene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.00096	0.00086	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Tetrachloroethylene	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30
Sample ID: 16C0303-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,1,2-Trichloroethane	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Trichloroethylene	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0096	0.00086	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
Vinyl Chloride	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
m+p Xylene	ND	0.0038	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF
o-Xylene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 10:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.2	70-130		3/9/16 10:38
Toluene-d8	95.2	70-130		3/9/16 10:38
4-Bromofluorobenzene	97.5	70-130		3/9/16 10:38

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30

Sample ID: 16C0303-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 10:38	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30
Sample ID: 16C0303-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 18:42	EEH

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	**201**	*	40-160	S-17	3/11/16 18:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30
Sample ID: 16C0303-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.82	0.42	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:26	CMR
Benzaldehyde	ND	0.42	0.40	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 19:26	CMR
Biphenyl	ND	0.82	0.52	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:26	CMR
Caprolactam	ND	0.42	0.31	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:26	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Acetophenone	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
4-Bromophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Butylbenzylphthalate	ND	0.42	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Carbazole	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
4-Chloroaniline	ND	0.81	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
4-Chloro-3-methylphenol	ND	0.81	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2-Chloronaphthalene	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2-Chlorophenol	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
4-Chlorophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Dibenzofuran	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Di-n-butylphthalate	ND	0.42	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
3,3-Dichlorobenzidine	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2,4-Dichlorophenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Diethylphthalate	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2,4-Dimethylphenol	ND	0.42	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Dimethylphthalate	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2,4-Dinitrophenol	ND	0.81	0.24	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2,4-Dinitrotoluene	ND	0.42	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2,6-Dinitrotoluene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Fluoranthene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Hexachlorobenzene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Hexachlorobutadiene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Hexachlorocyclopentadiene	ND	0.42	0.088	mg/Kg dry	1	V-05	SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Hexachloroethane	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30
Sample ID: 16C0303-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Isophorone	ND	0.42	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2-Methylphenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
3-Nitroaniline	ND	0.42	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
4-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Nitrobenzene	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
4-Nitrophenol	ND	0.81	0.091	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/10/16 18:06	CMR
N-Nitrosodiphenylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Pentachlorophenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Phenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Pyrene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2,4,5-Trichlorophenol	ND	0.42	0.094	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
2,4,6-Trichlorophenol	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/10/16 18:06	CMR
Atrazine	ND	0.82	0.69	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:26	CMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	86.9		30-130		3/10/16 18:06
Phenol-d6	99.5		30-130		3/10/16 18:06
Nitrobenzene-d5	107		30-130		3/10/16 18:06
2-Fluorobiphenyl	103		30-130		3/10/16 18:06
2,4,6-Tribromophenol	106		30-130		3/10/16 18:06
p-Terphenyl-d14	**131**	*	30-130	S-07	3/10/16 18:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30

Sample ID: 16C0303-04

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/8/16	3/10/16 18:06	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30

Sample ID: 16C0303-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.1	0.029	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Arsenic	ND	0.28	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Beryllium	0.97	0.39	0.032	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Chromium	10	7.1	0.45	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Copper	11	7.1	0.074	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Iron	4600	14	6.2	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Lead	6.7	2.8	0.059	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Manganese	40	7.4	0.096	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Mercury	ND	30	5.1	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:27	SCB
Nickel	6.6	7.1	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Silver	ND	0.13	0.040	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Thallium	0.071	0.091	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Zinc	18	14	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH
Cadmium	ND	0.54	0.025	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:43	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: SB-3 (12.5)
Sampled: 3/4/2016 14:30

Sample ID: 16C0303-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	59	31	17	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	9.9	2.9	2.9	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	230	160	mg/Kg dry	1		ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	81.7			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0303
Date Received: 3/7/2016
Field Sample #: Trip Blank
Sampled: 3/4/2016 00:00
Sample ID: 16C0303-05
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Carbon Disulfide	ND	0.0060	0.0035	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1	L-04	SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC | Sample Description: | Work Order: 16C0303

Date Received: 3/7/2016

Field Sample #: Trip Blank | Sampled: 3/4/2016 00:00

Sample ID: 16C0303-05

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/9/16	3/9/16 11:05	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.7	70-130		3/9/16 11:05
Toluene-d8	95.1	70-130		3/9/16 11:05
4-Bromofluorobenzene	96.9	70-130		3/9/16 11:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

ASTM D516-07 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0303-01 [SB-2 (10)]	B143849	1.08	100	03/11/16
16C0303-02 [SB-2 (12)]	B143849	1.01	100	03/11/16
16C0303-03 [SB-3 (6)]	B143849	1.00	100	03/11/16
16C0303-04 [SB-3 (12.5)]	B143849	1.05	100	03/11/16

SM 21-22 4500 NO3 F Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0303-01 [SB-2 (10)]	B143821	1.00	50.0	03/09/16
16C0303-02 [SB-2 (12)]	B143821	1.04	50.0	03/09/16
16C0303-03 [SB-3 (6)]	B143821	1.02	50.0	03/09/16
16C0303-04 [SB-3 (12.5)]	B143821	1.04	50.0	03/09/16

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16C0303-01 [SB-2 (10)]	B143794	03/08/16
16C0303-02 [SB-2 (12)]	B143794	03/08/16
16C0303-03 [SB-3 (6)]	B143794	03/08/16
16C0303-04 [SB-3 (12.5)]	B143794	03/08/16

SM21-22 4500 NH3 C Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0303-01 [SB-2 (10)]	B143862	1.07	100	03/09/16
16C0303-02 [SB-2 (12)]	B143862	1.06	100	03/09/16
16C0303-03 [SB-3 (6)]	B143862	1.02	100	03/09/16
16C0303-04 [SB-3 (12.5)]	B143862	1.17	100	03/09/16

Prep Method: SW-846 3050B-SW-846 6020A/B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0303-01 [SB-2 (10)]	B143829	1.05	50.0	03/10/16
16C0303-02 [SB-2 (12)]	B143829	1.07	50.0	03/10/16
16C0303-03 [SB-3 (6)]	B143829	0.996	50.0	03/10/16
16C0303-04 [SB-3 (12.5)]	B143829	1.07	50.0	03/10/16

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0303-01 [SB-2 (10)]	B143826	0.654	50.0	03/09/16
16C0303-02 [SB-2 (12)]	B143826	0.658	50.0	03/09/16
16C0303-03 [SB-3 (6)]	B143826	0.638	50.0	03/09/16
16C0303-04 [SB-3 (12.5)]	B143826	0.608	50.0	03/09/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0303-01 [SB-2 (10)]	B143867	6.42	10.0	03/09/16
16C0303-02 [SB-2 (12)]	B143867	5.89	10.0	03/09/16
16C0303-03 [SB-3 (6)]	B143867	3.69	10.0	03/09/16
16C0303-04 [SB-3 (12.5)]	B143867	6.39	10.0	03/09/16
16C0303-05 [Trip Blank]	B143867	5.00	10.0	03/09/16

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0303-01 [SB-2 (10)]	B144066	6.42	5.00	03/11/16
16C0303-02 [SB-2 (12)]	B144066	5.84	5.00	03/11/16
16C0303-03 [SB-3 (6)]	B144066	3.69	5.00	03/11/16
16C0303-04 [SB-3 (12.5)]	B144066	6.39	5.00	03/11/16

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0303-01 [SB-2 (10)]	B143797	30.0	1.00	03/08/16
16C0303-02 [SB-2 (12)]	B143797	30.0	1.00	03/08/16
16C0303-03 [SB-3 (6)]	B143797	30.5	1.00	03/08/16
16C0303-04 [SB-3 (12.5)]	B143797	30.0	1.00	03/08/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143867 - SW-846 5035										
Blank (B143867-BLK1)				Prepared & Analyzed: 03/09/16						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143867 - SW-846 5035												
Blank (B143867-BLK1)				Prepared & Analyzed: 03/09/16								
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0462*		mg/Kg wet	0.0500		92.4		70-130				
Surrogate: Toluene-d8	*0.0480*		mg/Kg wet	0.0500		96.0		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0494*		mg/Kg wet	0.0500		98.7		70-130				
LCS (B143867-BS1)				Prepared & Analyzed: 03/09/16								
Acetone	0.217	0.10	mg/Kg wet	0.200		108		70-160				†
Benzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0		70-130				
Bromobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130				
Bromochloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.6		70-130				
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130				
Bromoform	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130				
Bromomethane	0.0102	0.010	mg/Kg wet	0.0200		51.2		40-130				†
2-Butanone (MEK)	0.181	0.040	mg/Kg wet	0.200		90.5		70-160				†
Carbon Disulfide	0.0164	0.0060	mg/Kg wet	0.0200		81.9		70-130				
Carbon Tetrachloride	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
Chlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130				
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.0200		102		70-130				
Chloroethane	0.0184	0.020	mg/Kg wet	0.0200		92.0		70-130			J	
Chloroform	0.0188	0.0040	mg/Kg wet	0.0200		93.8		70-130				
Chloromethane	0.0133	0.010	mg/Kg wet	0.0200		**66.6**	*	70-130			L-04	
Cyclohexane	0.0163	0.0020	mg/Kg wet	0.0200		81.5		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0152	0.0020	mg/Kg wet	0.0200		75.8		70-130				
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104		70-130				
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
1,3-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130				
1,4-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Dichlorodifluoromethane (Freon 12)	0.0142	0.020	mg/Kg wet	0.0200		71.2		40-160			J	†
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.3		70-130				
1,2-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130				
1,1-Dichloroethylene	0.0165	0.0040	mg/Kg wet	0.0200		82.5		70-130				
cis-1,2-Dichloroethylene	0.0174	0.0020	mg/Kg wet	0.0200		87.1		70-130				
trans-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.6		70-130				
1,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130				
cis-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.5		70-130				
trans-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.5		70-130				
1,4-Dioxane	0.173	0.10	mg/Kg wet	0.200		86.3		40-160				†
Ethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
2-Hexanone (MBK)	0.179	0.020	mg/Kg wet	0.200		89.7		70-160				†
Isopropylbenzene (Cumene)	0.0232	0.0020	mg/Kg wet	0.0200		116		70-130				
Methyl Acetate	0.0155	0.0020	mg/Kg wet	0.0200		77.3		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0186	0.0040	mg/Kg wet	0.0200		93.1		70-130				
Methylene Chloride	0.0150	0.020	mg/Kg wet	0.0200		75.2		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.164	0.020	mg/Kg wet	0.200		81.8		70-160				†
Styrene	0.0228	0.0020	mg/Kg wet	0.0200		114		70-130				
1,1,2,2-Tetrachloroethane	0.0209	0.0010	mg/Kg wet	0.0200		104		70-130				
Tetrachloroethylene	0.0231	0.0020	mg/Kg wet	0.0200		115		70-130				
Toluene	0.0186	0.0020	mg/Kg wet	0.0200		92.9		70-130				
1,2,3-Trichlorobenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.6		70-130				
1,2,4-Trichlorobenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.2		70-130				
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130				
1,1,2-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143867 - SW-846 5035												
LCS (B143867-BS1)				Prepared & Analyzed: 03/09/16								
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0		70-130				
Trichlorofluoromethane (Freon 11)	0.0177	0.010	mg/Kg wet	0.0200		88.3		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0179	0.010	mg/Kg wet	0.0200		89.3		70-130				
Vinyl Chloride	0.0150	0.010	mg/Kg wet	0.0200		75.1		40-130				†
m+p Xylene	0.0438	0.0040	mg/Kg wet	0.0400		110		70-130				
o-Xylene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0460*		mg/Kg wet	0.0500		92.0		70-130				
Surrogate: Toluene-d8	*0.0483*		mg/Kg wet	0.0500		96.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0519*		mg/Kg wet	0.0500		104		70-130				
LCS Dup (B143867-BSD1)				Prepared & Analyzed: 03/09/16								
Acetone	0.234	0.10	mg/Kg wet	0.200		117		70-160	7.47	25		†
Benzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9		70-130	3.43	25		
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	1.78	25		
Bromochloromethane	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130	0.770	25		
Bromodichloromethane	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130	1.29	25		
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130	2.07	25		
Bromomethane	0.0121	0.010	mg/Kg wet	0.0200		60.5		40-130	16.7	25		†
2-Butanone (MEK)	0.188	0.040	mg/Kg wet	0.200		93.8		70-160	3.50	25		†
Carbon Disulfide	0.0157	0.0060	mg/Kg wet	0.0200		78.5		70-130	4.24	25		
Carbon Tetrachloride	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130	1.15	25		
Chlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130	0.183	25		
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.0200		103		70-130	0.195	25		
Chloroethane	0.0176	0.020	mg/Kg wet	0.0200		88.0		70-130	4.44	25	J	
Chloroform	0.0183	0.0040	mg/Kg wet	0.0200		91.5		70-130	2.48	25		
Chloromethane	0.0124	0.010	mg/Kg wet	0.0200		**61.8**	*	70-130	7.48	25	L-04	
Cyclohexane	0.0162	0.0020	mg/Kg wet	0.0200		81.2		70-130	0.369	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0152	0.0020	mg/Kg wet	0.0200		76.0		70-130	0.264	25		
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.0200		101		70-130	2.82	25		
1,2-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	3.95	25		
1,3-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	1.84	25		
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2		70-130	5.75	25		
Dichlorodifluoromethane (Freon 12)	0.0137	0.020	mg/Kg wet	0.0200		68.3		40-160	4.16	25	J	†
1,1-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.9		70-130	3.71	25		
1,2-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130	3.54	25		
1,1-Dichloroethylene	0.0162	0.0040	mg/Kg wet	0.0200		81.0		70-130	1.83	25		
cis-1,2-Dichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		85.9		70-130	1.39	25		
trans-1,2-Dichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		86.2		70-130	2.75	25		
1,2-Dichloropropane	0.0187	0.0020	mg/Kg wet	0.0200		93.7		70-130	1.38	25		
cis-1,3-Dichloropropene	0.0180	0.0010	mg/Kg wet	0.0200		90.2		70-130	0.332	25		
trans-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		91.9		70-130	0.651	25		
1,4-Dioxane	0.182	0.10	mg/Kg wet	0.200		90.9		40-160	5.24	50		† ‡
Ethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130	0.913	25		
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		91.1		70-160	1.57	25		†
Isopropylbenzene (Cumene)	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130	1.47	25		
Methyl Acetate	0.0150	0.0020	mg/Kg wet	0.0200		74.9		70-130	3.15	25		
Methyl tert-Butyl Ether (MTBE)	0.0182	0.0040	mg/Kg wet	0.0200		91.2		70-130	2.06	25		
Methylene Chloride	0.0151	0.020	mg/Kg wet	0.0200		75.5		40-160	0.398	25	J	†
4-Methyl-2-pentanone (MIBK)	0.162	0.020	mg/Kg wet	0.200		80.9		70-160	1.09	25		†
Styrene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	2.31	25		
1,1,2,2-Tetrachloroethane	0.0205	0.0010	mg/Kg wet	0.0200		102		70-130	1.93	25		
Tetrachloroethylene	0.0236	0.0020	mg/Kg wet	0.0200		118		70-130	2.31	25		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143867 - SW-846 5035										
LCS Dup (B143867-BSD1)				Prepared & Analyzed: 03/09/16						
Toluene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	0.00	25	
1,2,3-Trichlorobenzene	0.0149	0.0020	mg/Kg wet	0.0200		74.5	70-130	6.62	25	
1,2,4-Trichlorobenzene	0.0152	0.0020	mg/Kg wet	0.0200		75.8	70-130	6.88	25	
1,1,1-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	2.36	25	
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.05	25	
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.30	25	
Trichlorofluoromethane (Freon 11)	0.0173	0.010	mg/Kg wet	0.0200		86.4	70-130	2.18	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0180	0.010	mg/Kg wet	0.0200		90.2	70-130	1.00	25	
Vinyl Chloride	0.0153	0.010	mg/Kg wet	0.0200		76.4	40-130	1.72	25	†
m+p Xylene	0.0433	0.0040	mg/Kg wet	0.0400		108	70-130	1.19	25	
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.752	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0459*		mg/Kg wet	0.0500		91.9	70-130			
Surrogate: Toluene-d8	*0.0485*		mg/Kg wet	0.0500		97.1	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0530*		mg/Kg wet	0.0500		106	70-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143867 - SW-846 5035										
Blank (B143867-BLK1)				Prepared & Analyzed: 03/09/16						
No TICs Found	0.0		mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS (SIM) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B144066 - SW-846 5035										
Blank (B144066-BLK1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	ND	0.0020	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.0120*		mg/Kg wet	0.0100		120	40-160			
LCS (B144066-BS1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	0.00634	0.0020	mg/Kg wet	0.00500		127	60-140			
Surrogate: 1,4-Dioxane-d8	*0.0127*		mg/Kg wet	0.0100		127	40-160			
LCS Dup (B144066-BSD1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	0.00624	0.0020	mg/Kg wet	0.00500		125	60-140	1.59	20	
Surrogate: 1,4-Dioxane-d8	*0.0118*		mg/Kg wet	0.0100		118	40-160			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143797 - SW-846 3546										
Blank (B143797-BLK1)				Prepared: 03/08/16 Analyzed: 03/12/16						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							V-20
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143797 - SW-846 3546										
Blank (B143797-BLK1)				Prepared: 03/08/16 Analyzed: 03/10/16						
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Atrazine	ND	0.67	mg/Kg wet							
Surrogate: 2-Fluorophenol	*7.41*		mg/Kg wet	6.67		111	30-130			
Surrogate: Phenol-d6	*7.57*		mg/Kg wet	6.67		114	30-130			
Surrogate: Nitrobenzene-d5	*3.85*		mg/Kg wet	3.33		116	30-130			
Surrogate: 2-Fluorobiphenyl	*3.62*		mg/Kg wet	3.33		109	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.32*		mg/Kg wet	6.67		110	30-130			
Surrogate: p-Terphenyl-d14	*4.17*		mg/Kg wet	3.33		125	30-130			
LCS (B143797-BS1)				Prepared: 03/08/16 Analyzed: 03/12/16						
2,3,4,6-Tetrachlorophenol	1.59	0.67	mg/Kg wet	1.67		95.3	40-140			
Benzaldehyde	1.32	0.34	mg/Kg wet	1.67		79.0	40-140			V-20
Biphenyl	1.48	0.67	mg/Kg wet	1.67		89.0	40-140			
Caprolactam	1.48	0.34	mg/Kg wet	1.67		89.0	40-140			
Acenaphthene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140			
Acenaphthylene	1.55	0.17	mg/Kg wet	1.67		93.1	40-140			
Acetophenone	1.47	0.34	mg/Kg wet	1.67		88.5	40-140			
Anthracene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140			
Benzo(a)anthracene	1.62	0.17	mg/Kg wet	1.67		97.0	40-140			
Benzo(a)pyrene	1.63	0.17	mg/Kg wet	1.67		98.0	40-140			
Benzo(b)fluoranthene	1.62	0.17	mg/Kg wet	1.67		97.4	40-140			
Benzo(g,h,i)perylene	1.57	0.17	mg/Kg wet	1.67		94.0	40-140			
Benzo(k)fluoranthene	1.61	0.17	mg/Kg wet	1.67		96.7	40-140			
Bis(2-chloroethoxy)methane	1.59	0.34	mg/Kg wet	1.67		95.4	40-140			
Bis(2-chloroethyl)ether	1.48	0.34	mg/Kg wet	1.67		88.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.74	0.34	mg/Kg wet	1.67		104	40-140			
4-Bromophenylphenylether	1.54	0.34	mg/Kg wet	1.67		92.1	40-140			
Butylbenzylphthalate	1.79	0.34	mg/Kg wet	1.67		107	40-140			
Carbazole	1.58	0.17	mg/Kg wet	1.67		94.7	40-140			
4-Chloroaniline	0.912	0.66	mg/Kg wet	1.67		54.7	10-140			†
4-Chloro-3-methylphenol	1.65	0.66	mg/Kg wet	1.67		99.1	30-130			
2-Chloronaphthalene	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
2-Chlorophenol	1.43	0.34	mg/Kg wet	1.67		86.1	30-130			
4-Chlorophenylphenylether	1.61	0.34	mg/Kg wet	1.67		96.5	40-140			
Chrysene	1.59	0.17	mg/Kg wet	1.67		95.5	40-140			
Dibenz(a,h)anthracene	1.50	0.17	mg/Kg wet	1.67		89.8	40-140			
Dibenzofuran	1.60	0.34	mg/Kg wet	1.67		96.3	40-140			
Di-n-butylphthalate	1.62	0.34	mg/Kg wet	1.67		97.3	40-140			
3,3-Dichlorobenzidine	0.815	0.17	mg/Kg wet	1.67		48.9	20-140			†
2,4-Dichlorophenol	1.52	0.34	mg/Kg wet	1.67		91.5	30-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143797 - SW-846 3546												
LCS (B143797-BS1)				Prepared: 03/08/16 Analyzed: 03/10/16								
Diethylphthalate	1.66	0.34	mg/Kg wet	1.67		99.5		40-140				
2,4-Dimethylphenol	1.50	0.34	mg/Kg wet	1.67		90.0		30-130				
Dimethylphthalate	1.66	0.34	mg/Kg wet	1.67		99.5		40-140				
4,6-Dinitro-2-methylphenol	0.986	0.34	mg/Kg wet	1.67		59.1		30-130				
2,4-Dinitrophenol	0.544	0.66	mg/Kg wet	1.67		32.7		30-130			J	
2,4-Dinitrotoluene	1.58	0.34	mg/Kg wet	1.67		95.1		40-140				
2,6-Dinitrotoluene	1.59	0.34	mg/Kg wet	1.67		95.4		40-140				
Di-n-octylphthalate	1.70	0.34	mg/Kg wet	1.67		102		40-140				
Fluoranthene	1.57	0.17	mg/Kg wet	1.67		94.3		40-140				
Fluorene	1.64	0.17	mg/Kg wet	1.67		98.5		40-140				
Hexachlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.4		40-140				
Hexachlorobutadiene	1.30	0.34	mg/Kg wet	1.67		78.3		40-140				
Hexachlorocyclopentadiene	0.931	0.34	mg/Kg wet	1.67		55.8		40-140			V-05	
Hexachloroethane	1.28	0.34	mg/Kg wet	1.67		76.7		40-140				
Indeno(1,2,3-cd)pyrene	1.55	0.17	mg/Kg wet	1.67		92.8		40-140				
Isophorone	1.63	0.34	mg/Kg wet	1.67		97.8		40-140				
2-Methylnaphthalene	1.47	0.17	mg/Kg wet	1.67		88.0		40-140				
2-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.1		30-130				
3/4-Methylphenol	1.53	0.34	mg/Kg wet	1.67		91.8		30-130				
Naphthalene	1.40	0.17	mg/Kg wet	1.67		84.2		40-140				
2-Nitroaniline	1.78	0.34	mg/Kg wet	1.67		107		40-140				
3-Nitroaniline	1.39	0.34	mg/Kg wet	1.67		83.3		30-140				†
4-Nitroaniline	1.39	0.34	mg/Kg wet	1.67		83.4		40-140				
Nitrobenzene	1.52	0.34	mg/Kg wet	1.67		91.1		40-140				
2-Nitrophenol	1.48	0.34	mg/Kg wet	1.67		88.7		30-130				
4-Nitrophenol	2.20	0.66	mg/Kg wet	1.67		**132**	*	30-130			V-20, L-07	
N-Nitrosodiphenylamine	1.86	0.34	mg/Kg wet	1.67		112		40-140				
N-Nitrosodi-n-propylamine	1.58	0.34	mg/Kg wet	1.67		94.9		40-140				
Pentachlorophenol	1.08	0.34	mg/Kg wet	1.67		64.5		30-130				
Phenanthrene	1.56	0.17	mg/Kg wet	1.67		93.3		40-140				
Phenol	1.64	0.34	mg/Kg wet	1.67		98.5		30-130				
Pyrene	1.71	0.17	mg/Kg wet	1.67		103		40-140				
1,2,4,5-Tetrachlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.2		40-140				
2,4,5-Trichlorophenol	1.48	0.34	mg/Kg wet	1.67		89.0		30-130				
2,4,6-Trichlorophenol	1.55	0.34	mg/Kg wet	1.67		92.9		30-130				
Atrazine	1.38	0.67	mg/Kg wet	1.67		82.6		40-140				
Surrogate: 2-Fluorophenol	*6.36*		mg/Kg wet	6.67		95.4		30-130				
Surrogate: Phenol-d6	*6.69*		mg/Kg wet	6.67		100		30-130				
Surrogate: Nitrobenzene-d5	*3.58*		mg/Kg wet	3.33		107		30-130				
Surrogate: 2-Fluorobiphenyl	*3.54*		mg/Kg wet	3.33		106		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.25*		mg/Kg wet	6.67		109		30-130				
Surrogate: p-Terphenyl-d14	*4.13*		mg/Kg wet	3.33		124		30-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B143797 - SW-846 3546											
LCS Dup (B143797-BSD1)				Prepared: 03/08/16 Analyzed: 03/12/16							
2,3,4,6-Tetrachlorophenol	1.41	0.67	mg/Kg wet	1.67		84.7	40-140	11.7	20		
Benzaldehyde	1.19	0.34	mg/Kg wet	1.67		71.6	40-140	9.82	20	V-20	
Biphenyl	1.36	0.67	mg/Kg wet	1.67		81.5	40-140	8.82	20		
Caprolactam	1.36	0.34	mg/Kg wet	1.67		81.7	40-140	8.60	20		
Acenaphthene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140	7.75	30		
Acenaphthylene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140	6.63	30		
Acetophenone	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	10.1	30		
Anthracene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140	8.62	30		
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.5	40-140	9.21	30		
Benzo(a)pyrene	1.48	0.17	mg/Kg wet	1.67		88.8	40-140	9.87	30		
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140	11.7	30		
Benzo(g,h,i)perylene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140	7.62	30		
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.7	40-140	9.74	30		
Bis(2-chloroethoxy)methane	1.48	0.34	mg/Kg wet	1.67		88.7	40-140	7.32	30		
Bis(2-chloroethyl)ether	1.37	0.34	mg/Kg wet	1.67		82.3	40-140	7.44	30		
Bis(2-Ethylhexyl)phthalate	1.45	0.34	mg/Kg wet	1.67		86.8	40-140	18.2	30		
4-Bromophenylphenylether	1.37	0.34	mg/Kg wet	1.67		82.0	40-140	11.6	30		
Butylbenzylphthalate	1.55	0.34	mg/Kg wet	1.67		93.0	40-140	14.1	30		
Carbazole	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	5.53	30		
4-Chloroaniline	0.846	0.66	mg/Kg wet	1.67		50.7	10-140	7.55	30		†
4-Chloro-3-methylphenol	1.53	0.66	mg/Kg wet	1.67		91.5	30-130	7.89	30		
2-Chloronaphthalene	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	2.28	30		
2-Chlorophenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130	6.97	30		
4-Chlorophenylphenylether	1.45	0.34	mg/Kg wet	1.67		86.9	40-140	10.5	30		
Chrysene	1.45	0.17	mg/Kg wet	1.67		87.0	40-140	9.33	30		
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.4	40-140	7.41	30		
Dibenzofuran	1.46	0.34	mg/Kg wet	1.67		87.6	40-140	9.47	30		
Di-n-butylphthalate	1.43	0.34	mg/Kg wet	1.67		85.7	40-140	12.7	30		
3,3-Dichlorobenzidine	0.721	0.17	mg/Kg wet	1.67		43.2	20-140	12.3	50		† ‡
2,4-Dichlorophenol	1.40	0.34	mg/Kg wet	1.67		84.2	30-130	8.27	30		
Diethylphthalate	1.49	0.34	mg/Kg wet	1.67		89.6	40-140	10.5	30		
2,4-Dimethylphenol	1.40	0.34	mg/Kg wet	1.67		84.0	30-130	6.88	30		
Dimethylphthalate	1.49	0.34	mg/Kg wet	1.67		89.6	40-140	10.5	30		
4,6-Dinitro-2-methylphenol	0.914	0.34	mg/Kg wet	1.67		54.9	30-130	7.51	30		
2,4-Dinitrophenol	0.540	0.66	mg/Kg wet	1.67		32.4	30-130	0.799	30	J	
2,4-Dinitrotoluene	1.42	0.34	mg/Kg wet	1.67		85.3	40-140	10.8	30		
2,6-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	9.97	30		
Di-n-octylphthalate	1.42	0.34	mg/Kg wet	1.67		84.9	40-140	18.4	30		
Fluoranthene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	6.55	30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	9.06	30		
Hexachlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	11.2	30		
Hexachlorobutadiene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140	7.83	30		
Hexachlorocyclopentadiene	0.858	0.34	mg/Kg wet	1.67		51.5	40-140	8.13	30	V-05	
Hexachloroethane	1.18	0.34	mg/Kg wet	1.67		70.7	40-140	8.06	30		
Indeno(1,2,3-cd)pyrene	1.41	0.17	mg/Kg wet	1.67		84.4	40-140	9.46	30		
Isophorone	1.49	0.34	mg/Kg wet	1.67		89.6	40-140	8.77	30		
2-Methylnaphthalene	1.38	0.17	mg/Kg wet	1.67		82.9	40-140	5.99	30		
2-Methylphenol	1.11	0.34	mg/Kg wet	1.67		66.5	30-130	5.30	30		
3/4-Methylphenol	1.41	0.34	mg/Kg wet	1.67		84.7	30-130	8.09	30		
Naphthalene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140	5.94	30		
2-Nitroaniline	1.72	0.34	mg/Kg wet	1.67		103	40-140	3.88	30		
3-Nitroaniline	1.27	0.34	mg/Kg wet	1.67		76.3	30-140	8.77	30		†

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B143797 - SW-846 3546											
LCS Dup (B143797-BSD1)				Prepared: 03/08/16 Analyzed: 03/10/16							
4-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		81.2	40-140	2.65	30		
Nitrobenzene	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	5.32	30		
2-Nitrophenol	1.41	0.34	mg/Kg wet	1.67		84.3	30-130	5.08	30		
4-Nitrophenol	2.03	0.66	mg/Kg wet	1.67		122	30-130	8.06	50	V-20	‡
N-Nitrosodiphenylamine	1.73	0.34	mg/Kg wet	1.67		104	40-140	7.32	30		
N-Nitrosodi-n-propylamine	1.42	0.34	mg/Kg wet	1.67		84.9	40-140	11.1	30		
Pentachlorophenol	0.983	0.34	mg/Kg wet	1.67		59.0	30-130	8.91	30		
Phenanthrene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140	9.33	30		
Phenol	1.52	0.34	mg/Kg wet	1.67		91.5	30-130	7.39	30		
Pyrene	1.49	0.17	mg/Kg wet	1.67		89.3	40-140	13.8	30		
1,2,4,5-Tetrachlorobenzene	1.38	0.34	mg/Kg wet	1.67		82.6	40-140	4.22	30		
2,4,5-Trichlorophenol	1.34	0.34	mg/Kg wet	1.67		80.4	30-130	10.1	30		
2,4,6-Trichlorophenol	1.45	0.34	mg/Kg wet	1.67		86.7	30-130	6.90	30		
Atrazine	1.25	0.67	mg/Kg wet	1.67		75.2	40-140	9.30	30		
Surrogate: 2-Fluorophenol	*5.87*		mg/Kg wet	6.67		88.0	30-130				
Surrogate: Phenol-d6	*6.14*		mg/Kg wet	6.67		92.1	30-130				
Surrogate: Nitrobenzene-d5	*3.37*		mg/Kg wet	3.33		101	30-130				
Surrogate: 2-Fluorobiphenyl	*3.28*		mg/Kg wet	3.33		98.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.33*		mg/Kg wet	6.67		95.0	30-130				
Surrogate: p-Terphenyl-d14	*3.47*		mg/Kg wet	3.33		104	30-130				
Matrix Spike (B143797-MS1)		**Source: 16C0303-01**		Prepared: 03/08/16 Analyzed: 03/13/16							
2,3,4,6-Tetrachlorophenol	1.41	0.78	mg/Kg dry	1.95	ND	72.3	40-140				
Benzaldehyde	1.33	0.40	mg/Kg dry	1.95	ND	68.3	40-140			V-20	
Biphenyl	1.34	0.78	mg/Kg dry	1.95	ND	68.6	40-140				
Caprolactam	1.53	0.40	mg/Kg dry	1.95	ND	78.7	40-140				
Acenaphthene	1.46	0.20	mg/Kg dry	1.95	0.111	69.5	40-140				
Acenaphthylene	1.36	0.20	mg/Kg dry	1.95	ND	69.8	40-140				
Acetophenone	1.40	0.40	mg/Kg dry	1.95	ND	72.1	40-140				
Anthracene	1.62	0.20	mg/Kg dry	1.95	0.181	73.9	40-140				
Benzo(a)anthracene	1.69	0.20	mg/Kg dry	1.95	0.297	71.5	40-140				
Benzo(a)pyrene	1.67	0.20	mg/Kg dry	1.95	0.269	72.0	40-140				
Benzo(b)fluoranthene	1.65	0.20	mg/Kg dry	1.95	0.340	67.4	40-140				
Benzo(g,h,i)perylene	1.42	0.20	mg/Kg dry	1.95	0.183	63.6	40-140				
Benzo(k)fluoranthene	1.49	0.20	mg/Kg dry	1.95	0.127	69.8	40-140				
Bis(2-chloroethoxy)methane	1.50	0.40	mg/Kg dry	1.95	ND	76.9	40-140				
Bis(2-chloroethyl)ether	1.40	0.40	mg/Kg dry	1.95	ND	72.1	40-140				
Bis(2-Ethylhexyl)phthalate	2.12	0.40	mg/Kg dry	1.95	0.369	90.1	40-140				
4-Bromophenylphenylether	1.38	0.40	mg/Kg dry	1.95	ND	70.7	40-140				
Butylbenzylphthalate	1.77	0.40	mg/Kg dry	1.95	ND	90.9	40-140				
Carbazole	1.59	0.20	mg/Kg dry	1.95	0.124	75.2	40-140				
4-Chloroaniline	1.03	0.77	mg/Kg dry	1.95	ND	53.1	40-140				
4-Chloro-3-methylphenol	1.52	0.77	mg/Kg dry	1.95	ND	78.0	30-130				
2-Chloronaphthalene	1.24	0.40	mg/Kg dry	1.95	ND	63.7	40-140				
2-Chlorophenol	1.34	0.40	mg/Kg dry	1.95	ND	68.8	30-130				
4-Chlorophenylphenylether	1.49	0.40	mg/Kg dry	1.95	ND	76.4	40-140				
Chrysene	1.66	0.20	mg/Kg dry	1.95	0.309	69.4	40-140				
Dibenz(a,h)anthracene	1.39	0.20	mg/Kg dry	1.95	ND	71.4	40-140				
Dibenzofuran	1.52	0.40	mg/Kg dry	1.95	0.0693	74.6	40-140				
Di-n-butylphthalate	1.49	0.40	mg/Kg dry	1.95	ND	76.8	40-140				
3,3-Dichlorobenzidine	0.833	0.20	mg/Kg dry	1.95	ND	42.8	40-140				
2,4-Dichlorophenol	1.41	0.40	mg/Kg dry	1.95	ND	72.4	30-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B143797 - SW-846 3546											
Matrix Spike (B143797-MS1)		**Source: 16C0303-01**		Prepared: 03/08/16 Analyzed: 03/13/16							
Diethylphthalate	1.54	0.40	mg/Kg dry	1.95	ND	78.8		40-140			
2,4-Dimethylphenol	1.37	0.40	mg/Kg dry	1.95	ND	70.5		30-130			
Dimethylphthalate	1.47	0.40	mg/Kg dry	1.95	ND	75.5		40-140			
4,6-Dinitro-2-methylphenol	0.393	0.40	mg/Kg dry	1.95	ND	**20.2**	*	30-130			J, MS-23
2,4-Dinitrophenol	0.319	0.77	mg/Kg dry	1.95	ND	**16.4**	*	30-130			MS-09, R-06, J
2,4-Dinitrotoluene	1.27	0.40	mg/Kg dry	1.95	ND	65.4		40-140			
2,6-Dinitrotoluene	1.39	0.40	mg/Kg dry	1.95	ND	71.4		40-140			
Di-n-octylphthalate	1.67	0.40	mg/Kg dry	1.95	ND	85.8		40-140			
Fluoranthene	2.48	0.20	mg/Kg dry	1.95	0.843	84.2		40-140			
Fluorene	1.64	0.20	mg/Kg dry	1.95	0.131	77.4		40-140			
Hexachlorobenzene	1.36	0.40	mg/Kg dry	1.95	ND	69.8		40-140			
Hexachlorobutadiene	1.38	0.40	mg/Kg dry	1.95	ND	70.8		40-140			
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1.95	ND		*	30-130			MS-09
Hexachloroethane	0.822	0.40	mg/Kg dry	1.95	ND	42.2		40-140			
Indeno(1,2,3-cd)pyrene	1.48	0.20	mg/Kg dry	1.95	0.172	67.4		40-140			
Isophorone	1.57	0.40	mg/Kg dry	1.95	ND	80.4		40-140			
2-Methylnaphthalene	1.48	0.20	mg/Kg dry	1.95	ND	75.8		40-140			
2-Methylphenol	1.37	0.40	mg/Kg dry	1.95	ND	70.2		30-130			
3/4-Methylphenol	1.44	0.40	mg/Kg dry	1.95	ND	73.8		30-130			
Naphthalene	1.43	0.20	mg/Kg dry	1.95	ND	73.3		40-140			
2-Nitroaniline	2.05	0.40	mg/Kg dry	1.95	ND	105		40-140			
3-Nitroaniline	1.34	0.40	mg/Kg dry	1.95	ND	69.0		40-140			
4-Nitroaniline	2.16	0.40	mg/Kg dry	1.95	ND	111		40-140			
Nitrobenzene	1.32	0.40	mg/Kg dry	1.95	ND	67.7		40-140			
2-Nitrophenol	0.709	0.40	mg/Kg dry	1.95	ND	36.4		30-130			R-06
4-Nitrophenol	1.54	0.77	mg/Kg dry	1.95	ND	79.2		30-130			
N-Nitrosodiphenylamine	1.58	0.40	mg/Kg dry	1.95	ND	81.3		40-140			
N-Nitrosodi-n-propylamine	1.46	0.40	mg/Kg dry	1.95	ND	74.9		40-140			
Pentachlorophenol	1.03	0.40	mg/Kg dry	1.95	ND	52.7		30-130			
Phenanthrene	2.34	0.20	mg/Kg dry	1.95	0.863	75.8		40-140			
Phenol	1.38	0.40	mg/Kg dry	1.95	ND	70.7		30-130			
Pyrene	2.62	0.20	mg/Kg dry	1.95	0.773	94.8		40-140			
1,2,4,5-Tetrachlorobenzene	1.32	0.40	mg/Kg dry	1.95	ND	68.0		40-140			
2,4,5-Trichlorophenol	1.34	0.40	mg/Kg dry	1.95	ND	68.6		30-130			
2,4,6-Trichlorophenol	1.36	0.40	mg/Kg dry	1.95	ND	70.0		30-130			
Atrazine	1.30	0.78	mg/Kg dry	1.95	ND	67.0		40-140			
Surrogate: 2-Fluorophenol	*5.77*		mg/Kg dry	7.79		74.0		30-130			
Surrogate: Phenol-d6	*6.11*		mg/Kg dry	7.79		78.4		30-130			
Surrogate: Nitrobenzene-d5	*2.87*		mg/Kg dry	3.89		73.7		30-130			
Surrogate: 2-Fluorobiphenyl	*3.16*		mg/Kg dry	3.89		81.2		30-130			
Surrogate: 2,4,6-Tribromophenol	*6.78*		mg/Kg dry	7.79		87.0		30-130			
Surrogate: p-Terphenyl-d14	*4.08*		mg/Kg dry	3.89		105		30-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B143797 - SW-846 3546												
Matrix Spike Dup (B143797-MSD1)		**Source: 16C0303-01**		Prepared: 03/08/16 Analyzed: 03/13/16								
2,3,4,6-Tetrachlorophenol	1.70	0.78	mg/Kg dry	1.95	ND	87.6		40-140	19.1		30	
Benzaldehyde	1.47	0.40	mg/Kg dry	1.95	ND	75.7		40-140	10.3		30	V-20
Biphenyl	1.54	0.78	mg/Kg dry	1.95	ND	79.2		40-140	14.4		30	
Caprolactam	1.78	0.40	mg/Kg dry	1.95	ND	91.4		40-140	14.9		30	
Acenaphthene	1.67	0.20	mg/Kg dry	1.95	0.111	80.1		40-140	13.1		30	
Acenaphthylene	1.59	0.20	mg/Kg dry	1.95	ND	81.6		40-140	15.6		30	
Acetophenone	1.54	0.40	mg/Kg dry	1.95	ND	78.9		40-140	9.01		30	
Anthracene	1.86	0.20	mg/Kg dry	1.95	0.181	86.0		40-140	13.6		30	
Benzo(a)anthracene	1.95	0.20	mg/Kg dry	1.95	0.297	84.7		40-140	14.1		30	
Benzo(a)pyrene	1.95	0.20	mg/Kg dry	1.95	0.269	86.6		40-140	15.7		30	
Benzo(b)fluoranthene	1.94	0.20	mg/Kg dry	1.95	0.340	82.3		40-140	16.2		30	
Benzo(g,h,i)perylene	1.56	0.20	mg/Kg dry	1.95	0.183	70.8		40-140	9.48		30	
Benzo(k)fluoranthene	1.76	0.20	mg/Kg dry	1.95	0.127	83.7		40-140	16.8		30	
Bis(2-chloroethoxy)methane	1.70	0.40	mg/Kg dry	1.95	ND	87.3		40-140	12.7		30	
Bis(2-chloroethyl)ether	1.55	0.40	mg/Kg dry	1.95	ND	79.5		40-140	9.79		30	
Bis(2-Ethylhexyl)phthalate	2.47	0.40	mg/Kg dry	1.95	0.369	108		40-140	14.9		30	
4-Bromophenylphenylether	1.60	0.40	mg/Kg dry	1.95	ND	82.0		40-140	14.9		30	
Butylbenzylphthalate	2.02	0.40	mg/Kg dry	1.95	ND	104		40-140	13.4		30	
Carbazole	1.84	0.20	mg/Kg dry	1.95	0.124	88.0		40-140	14.5		30	
4-Chloroaniline	1.23	0.77	mg/Kg dry	1.95	ND	63.2		40-140	17.5		30	
4-Chloro-3-methylphenol	1.79	0.77	mg/Kg dry	1.95	ND	92.1		30-130	16.5		30	
2-Chloronaphthalene	1.39	0.40	mg/Kg dry	1.95	ND	71.6		40-140	11.7		30	
2-Chlorophenol	1.51	0.40	mg/Kg dry	1.95	ND	77.8		30-130	12.3		30	
4-Chlorophenylphenylether	1.75	0.40	mg/Kg dry	1.95	ND	89.8		40-140	16.1		30	
Chrysene	1.91	0.20	mg/Kg dry	1.95	0.309	82.3		40-140	14.0		30	
Dibenz(a,h)anthracene	1.44	0.20	mg/Kg dry	1.95	ND	73.9		40-140	3.39		30	
Dibenzofuran	1.76	0.40	mg/Kg dry	1.95	0.0693	86.9		40-140	14.6		30	
Di-n-butylphthalate	1.71	0.40	mg/Kg dry	1.95	ND	87.9		40-140	13.5		30	
3,3-Dichlorobenzidine	1.02	0.20	mg/Kg dry	1.95	ND	52.4		40-140	20.3		30	
2,4-Dichlorophenol	1.64	0.40	mg/Kg dry	1.95	ND	84.0		30-130	14.9		30	
Diethylphthalate	1.77	0.40	mg/Kg dry	1.95	ND	90.9		40-140	14.2		30	
2,4-Dimethylphenol	1.59	0.40	mg/Kg dry	1.95	ND	81.6		30-130	14.5		30	
Dimethylphthalate	1.70	0.40	mg/Kg dry	1.95	ND	87.3		40-140	14.6		30	
4,6-Dinitro-2-methylphenol	0.641	0.40	mg/Kg dry	1.95	ND	32.9		30-130	**48.0**	*	30	R-06
2,4-Dinitrophenol	0.450	0.77	mg/Kg dry	1.95	ND	**23.1**	*	30-130	**33.9**	*	30	J, MS-09, R-06
2,4-Dinitrotoluene	1.58	0.40	mg/Kg dry	1.95	ND	81.3		40-140	21.7		30	
2,6-Dinitrotoluene	1.70	0.40	mg/Kg dry	1.95	ND	87.3		40-140	20.1		30	
Di-n-octylphthalate	1.95	0.40	mg/Kg dry	1.95	ND	100		40-140	15.6		30	
Fluoranthene	2.72	0.20	mg/Kg dry	1.95	0.843	96.5		40-140	9.22		30	
Fluorene	1.87	0.20	mg/Kg dry	1.95	0.131	89.4		40-140	13.3		30	
Hexachlorobenzene	1.63	0.40	mg/Kg dry	1.95	ND	83.8		40-140	18.3		30	
Hexachlorobutadiene	1.59	0.40	mg/Kg dry	1.95	ND	81.7		40-140	14.2		30	
Hexachlorocyclopentadiene	ND	0.40	mg/Kg dry	1.95	ND		*	30-130	NC		30	MS-09
Hexachloroethane	1.03	0.40	mg/Kg dry	1.95	ND	53.0		40-140	22.7		30	
Indeno(1,2,3-cd)pyrene	1.58	0.20	mg/Kg dry	1.95	0.172	72.2		40-140	6.08		30	
Isophorone	1.79	0.40	mg/Kg dry	1.95	ND	91.9		40-140	13.4		30	
2-Methylnaphthalene	1.69	0.20	mg/Kg dry	1.95	ND	86.7		40-140	13.5		30	
2-Methylphenol	1.52	0.40	mg/Kg dry	1.95	ND	78.1		30-130	10.7		30	
3/4-Methylphenol	1.62	0.40	mg/Kg dry	1.95	ND	83.4		30-130	12.2		30	
Naphthalene	1.61	0.20	mg/Kg dry	1.95	ND	82.6		40-140	11.9		30	
2-Nitroaniline	2.24	0.40	mg/Kg dry	1.95	ND	115		40-140	9.00		30	
3-Nitroaniline	1.54	0.40	mg/Kg dry	1.95	ND	79.3		40-140	13.9		30	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B143797 - SW-846 3546											
Matrix Spike Dup (B143797-MSD1)		**Source: 16C0303-01**		Prepared: 03/08/16 Analyzed: 03/13/16							
4-Nitroaniline	2.33	0.40	mg/Kg dry	1.95	ND	119	40-140	7.29		30	
Nitrobenzene	1.49	0.40	mg/Kg dry	1.95	ND	76.3	40-140	12.0		30	
2-Nitrophenol	1.07	0.40	mg/Kg dry	1.95	ND	55.2	30-130	**41.0**	*	30	R-06
4-Nitrophenol	1.81	0.77	mg/Kg dry	1.95	ND	92.8	30-130	15.8		30	
N-Nitrosodiphenylamine	1.83	0.40	mg/Kg dry	1.95	ND	93.9	40-140	14.3		30	
N-Nitrosodi-n-propylamine	1.60	0.40	mg/Kg dry	1.95	ND	82.2	40-140	9.24		30	
Pentachlorophenol	1.25	0.40	mg/Kg dry	1.95	ND	64.2	30-130	19.8		30	
Phenanthrene	2.56	0.20	mg/Kg dry	1.95	0.863	87.1	40-140	9.00		30	
Phenol	1.53	0.40	mg/Kg dry	1.95	ND	78.8	30-130	10.8		30	
Pyrene	2.91	0.20	mg/Kg dry	1.95	0.773	110	40-140	10.7		30	
1,2,4,5-Tetrachlorobenzene	1.52	0.40	mg/Kg dry	1.95	ND	78.2	40-140	14.0		30	
2,4,5-Trichlorophenol	1.55	0.40	mg/Kg dry	1.95	ND	79.9	30-130	15.2		30	
2,4,6-Trichlorophenol	1.62	0.40	mg/Kg dry	1.95	ND	83.2	30-130	17.2		30	
Atrazine	1.55	0.78	mg/Kg dry	1.95	ND	79.5	40-140	17.1		30	
Surrogate: 2-Fluorophenol	*6.48*		mg/Kg dry	7.79		83.2	30-130				
Surrogate: Phenol-d6	*6.84*		mg/Kg dry	7.79		87.8	30-130				
Surrogate: Nitrobenzene-d5	*3.19*		mg/Kg dry	3.89		81.9	30-130				
Surrogate: 2-Fluorobiphenyl	*3.54*		mg/Kg dry	3.89		91.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*8.11*		mg/Kg dry	7.79		104	30-130				
Surrogate: p-Terphenyl-d14	*4.77*		mg/Kg dry	3.89		122	30-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143797 - SW-846 3546										
Blank (B143797-BLK1)				Prepared: 03/08/16 Analyzed: 03/10/16						
No TICs Found	0.0		mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143826 - SW-846 7471										
Blank (B143826-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	ND	25	µg/kg wet							
LCS (B143826-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	6690	750	µg/kg wet	7100		94.2	73.7-126.3			
LCS Dup (B143826-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	6950	770	µg/kg wet	7100		97.9	73.7-126.3	3.91	30	
Duplicate (B143826-DUP1)		**Source: 16C0303-01**		Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	39.5	27	µg/kg dry		36.1			9.07	35	
Matrix Spike (B143826-MS1)		**Source: 16C0303-01**		Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	225	27	µg/kg dry	182	36.1	104	75-125			
Batch B143829 - SW-846 3050B										
Blank (B143829-BLK1)				Prepared & Analyzed: 03/10/16						
Antimony	ND	2.7	mg/Kg wet							
Arsenic	ND	0.25	mg/Kg wet							
Beryllium	ND	0.34	mg/Kg wet							
Chromium	ND	6.2	mg/Kg wet							
Copper	0.082	6.2	mg/Kg wet							J
Iron	ND	12	mg/Kg wet							
Lead	0.10	2.5	mg/Kg wet							J
Manganese	ND	6.5	mg/Kg wet							
Nickel	ND	6.2	mg/Kg wet							
Selenium	ND	1.0	mg/Kg wet							
Silver	ND	0.11	mg/Kg wet							
Thallium	ND	0.080	mg/Kg wet							
Zinc	ND	12	mg/Kg wet							
Cadmium	ND	0.48	mg/Kg wet							
LCS (B143829-BS1)				Prepared & Analyzed: 03/10/16						
Antimony	81.4	22	mg/Kg wet	105		77.5	0-210.3			
Arsenic	101	2.0	mg/Kg wet	98.5		102	77.8-122.1			
Beryllium	69.3	2.7	mg/Kg wet	66.0		105	82.3-117.7			
Chromium	177	50	mg/Kg wet	182		97.1	78.7-120.6			
Copper	104	50	mg/Kg wet	106		97.7	80.4-119.6			
Iron	12400	100	mg/Kg wet	14400		86.4	46.8-153			
Lead	125	20	mg/Kg wet	130		96.1	82.4-117.8			
Manganese	390	52	mg/Kg wet	410		95.1	80.8-119.2			
Nickel	147	50	mg/Kg wet	149		98.8	82.2-117.8			
Selenium	165	8.4	mg/Kg wet	154		107	77.1-122.3			
Silver	41.1	0.88	mg/Kg wet	40.9		101	74.3-125.4			
Thallium	182	0.64	mg/Kg wet	175		104	78.2-121.6			
Zinc	198	100	mg/Kg wet	191		104	79.7-120.8			
Cadmium	157	3.8	mg/Kg wet	146		108	81.9-118.2			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B143829 - SW-846 3050B											
LCS Dup (B143829-BSD1)				Prepared & Analyzed: 03/10/16							
Antimony	77.2	22	mg/Kg wet	105		73.5		0-210.3	5.31	30	
Arsenic	102	2.0	mg/Kg wet	98.5		104		77.8-122.1	1.31	30	
Beryllium	69.9	2.7	mg/Kg wet	66.0		106		82.3-117.7	0.926	30	
Chromium	179	50	mg/Kg wet	182		98.6		78.7-120.6	1.52	30	
Copper	105	50	mg/Kg wet	106		98.9		80.4-119.6	1.21	30	
Iron	12600	100	mg/Kg wet	14400		87.2		46.8-153	0.907	30	
Lead	128	20	mg/Kg wet	130		98.6		82.4-117.8	2.60	30	
Manganese	398	52	mg/Kg wet	410		97.0		80.8-119.2	2.04	30	
Nickel	147	50	mg/Kg wet	149		98.9		82.2-117.8	0.158	30	
Selenium	165	8.4	mg/Kg wet	154		107		77.1-122.3	0.157	30	
Silver	41.2	0.88	mg/Kg wet	40.9		101		74.3-125.4	0.204	30	
Thallium	179	0.64	mg/Kg wet	175		102		78.2-121.6	1.34	30	
Zinc	202	100	mg/Kg wet	191		106		79.7-120.8	1.75	30	
Cadmium	152	3.8	mg/Kg wet	146		104		81.9-118.2	3.67	30	
Duplicate (B143829-DUP1)		**Source: 16C0303-01**		Prepared & Analyzed: 03/10/16							
Antimony	0.0394	3.2	mg/Kg dry		0.0332				17.1	35	J
Arsenic	0.672	0.30	mg/Kg dry		0.523				24.9	35	
Beryllium	0.286	0.40	mg/Kg dry		0.248				14.2	35	J
Chromium	9.35	7.4	mg/Kg dry		9.17				1.97	35	
Copper	2.60	7.4	mg/Kg dry		2.05				23.7	35	J
Iron	12300	15	mg/Kg dry		11100				10.8	35	
Lead	7.36	3.0	mg/Kg dry		6.42				13.7	35	
Manganese	65.8	7.7	mg/Kg dry		31.3				**71.0**	* 35	R-02
Nickel	2.94	7.4	mg/Kg dry		2.68				8.98	35	J
Selenium	ND	1.2	mg/Kg dry		ND				NC	35	
Silver	ND	0.13	mg/Kg dry		ND				NC	35	
Thallium	0.0768	0.094	mg/Kg dry		0.0666				14.3	35	J
Zinc	8.96	15	mg/Kg dry		6.53				31.4	35	J
Cadmium	ND	0.56	mg/Kg dry		ND				NC	35	
Matrix Spike (B143829-MS1)		**Source: 16C0303-01**		Prepared & Analyzed: 03/10/16							
Antimony	3.30	3.2	mg/Kg dry	29.6	0.0332	**11.0**	*	75-125			MS-07
Arsenic	28.2	1.2	mg/Kg dry	29.6	0.523	95.1		75-125			
Beryllium	29.1	1.6	mg/Kg dry	29.6	0.248	97.2		75-125			
Chromium	38.2	30	mg/Kg dry	29.6	9.17	97.9		75-125			
Copper	32.0	30	mg/Kg dry	29.6	2.05	101		75-125			
Iron	11400	59	mg/Kg dry	29.6	11100	**1210**	*	75-125			MS-19
Lead	36.9	12	mg/Kg dry	29.6	6.42	103		75-125			
Manganese	62.3	31	mg/Kg dry	29.6	31.3	104		75-125			
Nickel	31.7	30	mg/Kg dry	29.6	2.68	98.0		75-125			
Selenium	28.6	5.0	mg/Kg dry	29.6	ND	96.4		75-125			
Silver	29.2	0.52	mg/Kg dry	29.6	ND	98.4		75-125			
Thallium	29.7	0.38	mg/Kg dry	29.6	0.0666	100		75-125			
Zinc	40.8	59	mg/Kg dry	29.6	6.53	116		75-125			J
Cadmium	29.7	2.3	mg/Kg dry	29.6	ND	100		75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143794 - % Solids										
Duplicate (B143794-DUP2)		**Source: 16C0303-01**		Prepared: 03/08/16 Analyzed: 03/09/16						
% Solids	85.0		% Wt		85.6			0.703	20	
Batch B143821 - SM 21-22 4500 NO3 F Modified										
Blank (B143821-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	ND	2.5	mg/Kg wet							
LCS (B143821-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		101	88.9-111			
LCS Dup (B143821-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		102	88.9-111	0.791	5.66	
Batch B143849 - ASTM D516-07 Modified										
Blank (B143849-BLK1)				Prepared & Analyzed: 03/11/16						
Sulfate	ND	200	mg/Kg wet							
LCS (B143849-BS1)				Prepared & Analyzed: 03/11/16						
Sulfate	2000	200	mg/Kg wet	2000		99.0	83.8-123			
LCS Dup (B143849-BSD1)				Prepared & Analyzed: 03/11/16						
Sulfate	2000	200	mg/Kg wet	2000		98.0	83.8-123	0.914	8.27	
Duplicate (B143849-DUP1)		**Source: 16C0303-01**		Prepared & Analyzed: 03/11/16						
Sulfate	ND	430	mg/Kg dry		ND			NC	18	W-06
Matrix Spike (B143849-MS1)		**Source: 16C0303-02**		Prepared & Analyzed: 03/11/16						
Sulfate	12000	1200	mg/Kg dry	12000	ND	96.2	37.4-150			W-06
Batch B143862 - SM21-22 4500 NH3 C Modified										
Blank (B143862-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	ND	30	mg/Kg wet							
LCS (B143862-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	500	30	mg/Kg wet	500		101	82-106			
LCS Dup (B143862-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	520	30	mg/Kg wet	500		104	82-106	2.74	8.24	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143862 - SM21-22 4500 NH3 C Modified										
Duplicate (B143862-DUP1)		**Source: 16C0303-02**		Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	32	35	mg/Kg dry		32			0.532	34.8	J
Matrix Spike (B143862-MS1)		**Source: 16C0303-02**		Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	230	35	mg/Kg dry	233	32	84.2	71.6-116			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
W-06	Elevated method reporting limit due to intense color of sample

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 4500 NH3 C Modified in Soil	
Ammonia as N	NC
SW-846 6020A/B in Soil	
Antimony	NY,NC
Arsenic	NY,VA,NH,NC
Beryllium	VA,NY,NH,NC
Chromium	NY,NC
Copper	NY,NC
Iron	NY,NC
Lead	NY,NC
Manganese	NY,NC
Nickel	NY,NC
Selenium	NY,VA,NH,NC
Silver	NY,NC
Thallium	VA,NY,NH,NC
Zinc	NY,NC
Cadmium	NY,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
1,2-Dichloropropane	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
Styrene	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Atrazine	ME,NC
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

16C0303

Company Name: ATC Associates
Address: 2725 E. Millbrook Rd.
Raleigh, NC
Attention: Justin Ballard
Project Location: Raleigh, NC
Sampled By: A.McMillan & R.Harrell

Telephone: 919-871-0999
Project # Old Raleigh #9
Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE
Fax #
Email: Justin.Ballard@atcassocaiates.com
Format: ☒ PDF ☒ EXCEL ☐ GIS
☐ OTHER
☐ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☐ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/~~Time~~	Collection ~~Ending Date~~/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs 8260 + TICs	8260 SIM (1,4-dioxane)	SVOCs by 8270 + TICs	Inorganic hazardous substances by 200.7/200.8	mercury by 7470/7471	ammonia and nitrate by SM 4500	sulfate by ASTM D516					# of Containers / ** Preservation / ***Container Code
01	SB-2 (10)	03/4/16	1150		x	S		X	X	X	X	X	X	X					
02	SB-2 (12)	03/4/16	1210		x	S		X	X										
03	SB-3 (6)	03/4/16	1410		x	S		X	X										
04	SB-3 12.5	03/4/16	1430		x	S		X	X										
05	~~SB-~~ Trip Blank-1	~~03/ /16~~	—		x	~~S~~ DI		X	X										
	SB-	03/ /16			x	S													
	SB-	03/ /16			x	S													
	SB-	03/ /16			x	S													
	SB-	03/ /16			x	S													
	SB-	03/ /16			x	S													

ANALYSIS REQUESTED

Dissolved Metals
◯ Field Filtered
◯ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
NCDENR Landfill

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 3/7/16 1530
Received by: (signature) Brent Pader	Date/Time: 3/7/16 1532
Relinquished by: (signature) Brent Pader	Date/Time: 3/7/16 1715
Received by: (signature) 3.0	Date/Time: 3.8.16 9:40

Turnaround †
◉ 5-Day
◯ 7 Day
◯ 10-Day
RUSH †
◯ †24-Hr ◯ †48-Hr
◯ †72-Hr ◯ †4-Day
† Require lab approval

Detection Limit Requirements
North Carolina
☑ 2L
☐ GWPC
☐ SWSL
☑ IHSB
☑ Other Contact pm

Program Information
☐ DSCA
☐ SWS Landfill
◉ Other:
☐ IHSB Orphaned Landfill
☐ UST
☐ REC

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED. PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: ATC Raleigh **RECEIVED BY**: PB **DATE**: 3/8/2016

1) Was the chain(s) of custody relinquished and signed? **Yes** x **No** ____ **No COC Incl.**

2) Does the chain agree with the samples? **Yes** x **No** ____

If not, explain:

3) Are all the samples in good condition? **Yes** x **No** ____

If not, explain:

4) How were the samples received:

On Ice x Direct from Sampling ____ Ambient ____ In Cooler(s) x

Were the samples received in Temperature Compliance of (2-6°C) ? **Yes** x **No** ____ **N/A** ____

Temperature °C by Temp blank 3 Temperature °C by Temp gun ____

5) Are there Dissolved samples for the lab to filter? **Yes** ____ **No** x

Who was notified ____ Date ____ Time ____

6) Are there any RUSH or SHORT HOLDING TIME samples? **Yes** ____ **No** x

Who was notified ____ Date ____ Time ____

7) Location where samples are stored: Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) Do all samples have the proper Acid pH: **Yes** ____ **No** ____ **N/A** x

9) Do all samples have the proper Base pH: **Yes** ____ **No** ____ **N/A** x

10) Was the PC notified of any discrepancies with the CoC vs the samples: **Yes** ____ **N/A** x

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			16 oz amber	
500 mL Amber			8 oz amber/clear jar	5 Ambers
250 mL Amber (8oz amber)			4 oz amber/clear jar	5 Ambers
1 Liter Plastic			2 oz amber/clear jar	
500 mL Plastic			Plastic Bag / Ziploc	
250 mL plastic			SOC Kit	
40 mL Vial - type listed below	28		Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

40 mL vials:	# HCl		# Methanol	6
	# Bisulfate	22	# DI Water	
	# Thiosulfate		Unpreserved	

Time and Date Frozen:

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** PB **Date/Time: 3/8/16**

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 15, 2016

Justin Ballard
ATC Group Services LLC - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604

Project Location: Raleigh, NC
Client Job Number:
Project Number: Old Raleigh #9
Laboratory Work Order Number: 16C0347

Enclosed are results of analyses for samples received by the laboratory on March 8, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 10

Sample Results 14

16C0347-01 14

16C0347-02 23

16C0347-03 32

16C0347-04 41

16C0347-05 50

16C0347-06 59

16C0347-07 68

16C0347-08 77

16C0347-09 86

16C0347-10 95

16C0347-11 104

16C0347-12 113

16C0347-13 122

16C0347-14 131

16C0347-15 140

16C0347-16 149

16C0347-17 158

Sample Preparation Information 160

QC Data 164

Volatile Organic Compounds by GC/MS 164

B143969 164

B143973 167

Table of Contents (continued)

B144021 170

B144053 171

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) 175

B143969 175

B143973 175

Volatile Organic Compounds by GC/MS (SIM) 176

B144215 176

B144274 176

Semivolatile Organic Compounds by GC/MS 177

B143887 177

B143887 185

Metals Analyses (Total) 186

B143840 186

B144121 186

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 188

B143917 188

B143918 188

B144082 189

Flag/Qualifier Summary 190

Certifications 191

Chain of Custody/Sample Receipt 196

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ATC Group Services LLC - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 3/15/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: Old Raleigh #9

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0347

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-7 (3.5)	16C0347-01	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-7 (12.5)	16C0347-02	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-7 (5-10)	16C0347-03	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-8 (3.5)	16C0347-04	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-8 (10)	16C0347-05	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-8 (13)	16C0347-06	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-8 (5-10)	16C0347-07	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-9 (4)	16C0347-08	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-9 (5)	16C0347-09	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-9 (13.5)	16C0347-10	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-10 (5)	16C0347-11	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-10 (10)	16C0347-12	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-10 (12.5)	16C0347-13	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-11 (8)	16C0347-14	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-11 (10)	16C0347-15	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-11 (12.5)	16C0347-16	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank-3	16C0347-17	Trip Blank Soil		SW-846 8260B	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ASTM D516-07 Modified

Qualifications:

W-06

Elevated method reporting limit due to intense color of sample

Analyte & Samples(s) Qualified:

Sulfate

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-05[SB-8 (10)], 16C0347-09[SB-9 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-16[SB-11 (12.5)], B144082-DUP2, B144082-MS1, B144082-MS2

SW-846 6020A/B

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Zinc

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], B144121-BLK1

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Beryllium

B144121-BSD1

Zinc

B144121-BSD1

MS-07

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Antimony

16C0347-01[SB-7 (3.5)], B144121-MS1

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Iron

16C0347-01[SB-7 (3.5)], B144121-MS1

Manganese

16C0347-01[SB-7 (3.5)], B144121-MS1

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Manganese

16C0347-01[SB-7 (3.5)], B144121-DUP1

SW-846 8260B

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], 16C0347-17[Trip Blank-3], B143969-BLK1, B143969-BS1, B143969-BSD1, B143973-BLK1, B143973-BS1, B143973-BSD1, B144053-BLK1, B144053-BS1, B144053-BSD1

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R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], B143969-BLK1, B143969-BS1, B143969-BSD1

Acetone

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], B143969-BLK1, B143969-BS1, B143969-BSD1

Dichlorodifluoromethane (Freon 1

16C0347-17[Trip Blank-3], B144053-BLK1, B144053-BS1, B144053-BSD1

SW-846 8270D

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

4-Nitrophenol

B143887-BSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

4-Chloroaniline

B143887-MS1

MS-23

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate

B143887-MS1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], B143887-BLK1, B143887-BS1, B143887-BSD1

Biphenyl

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], B143887-BLK1, B143887-BS1, B143887-BSD1

Caprolactam

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], B143887-BLK1, B143887-BS1, B143887-BSD1

Di-n-octylphthalate

16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], B143887-BLK1, B143887-BS1, B143887-BSD1

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R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
16C0347-01[SB-7 (3.5)], B143887-MS1, B143887-MSD1

2-Chloronaphthalene
16C0347-01[SB-7 (3.5)], B143887-MS1, B143887-MSD1

4-Bromophenylphenylether
16C0347-01[SB-7 (3.5)], B143887-MS1, B143887-MSD1

Bis(2-Ethylhexyl)phthalate
16C0347-01[SB-7 (3.5)], B143887-MSD1

Pentachlorophenol
16C0347-01[SB-7 (3.5)], B143887-MS1, B143887-MSD1

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], B143887-BLK1, B143887-BS1, B143887-BSD1, B143887-MS1, B143887-MSD1

Pentachlorophenol
16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], B143887-BLK1, B143887-BS1, B143887-BSD1, B143887-MS1, B143887-MSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol
16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], 16C0347-15[SB-11 (10)], 16C0347-16[SB-11 (12.5)], B143887-BLK1, B143887-BS1, B143887-BSD1, B143887-MS1, B143887-MSD1

Benzaldehyde
16C0347-01[SB-7 (3.5)], 16C0347-02[SB-7 (12.5)], 16C0347-03[SB-7 (5-10)], 16C0347-04[SB-8 (3.5)], 16C0347-05[SB-8 (10)], 16C0347-06[SB-8 (13)], 16C0347-07[SB-8 (5-10)], 16C0347-08[SB-9 (4)], 16C0347-09[SB-9 (5)], 16C0347-10[SB-9 (13.5)], 16C0347-11[SB-10 (5)], 16C0347-12[SB-10 (10)], 16C0347-13[SB-10 (12.5)], 16C0347-14[SB-11 (8)], B143887-BLK1, B143887-BS1, B143887-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00
Sample ID: 16C0347-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	0.023	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Benzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Bromobenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Bromodichloromethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Bromomethane	ND	0.0098	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Carbon Disulfide	ND	0.0059	0.0034	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Carbon Tetrachloride	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Chlorobenzene	0.00073	0.0020	0.00069	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Chlorodibromomethane	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Chloroform	ND	0.0039	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Chloromethane	ND	0.0098	0.00088	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Cyclohexane	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,1-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
cis-1,3-Dichloropropene	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
trans-1,3-Dichloropropene	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,4-Dioxane	ND	0.098	0.057	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Ethylbenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Methylene Chloride	ND	0.020	0.0070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0075	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Styrene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.00098	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Toluene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00
Sample ID: 16C0347-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Trichloroethylene	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0098	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
Vinyl Chloride	ND	0.0098	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF
o-Xylene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	101	70-130		3/10/16 14:00
Toluene-d8	93.6	70-130		3/10/16 14:00
4-Bromofluorobenzene	104	70-130		3/10/16 14:00

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Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00
Sample ID: 16C0347-01
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.019	mg/Kg dry	200230	1.032	1	000075-37-6	91	SW-846 8260C	3/10/16	3/10/16 14:00	MFF
Hexane	0.017	mg/Kg dry	181035	2.66	1	000110-54-3	94	SW-846 8260C	3/10/16	3/10/16 14:00	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00
Sample ID: 16C0347-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260C	3/15/16	3/15/16 11:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	156	40-160		3/15/16 11:59

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00
Sample ID: 16C0347-01
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.42	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Biphenyl	ND	0.81	0.52	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Acetophenone	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Bis(2-Ethylhexyl)phthalate	1.5	0.41	0.16	mg/Kg dry	1	R-06	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1	R-06	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Butylbenzylphthalate	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Carbazole	ND	0.21	0.053	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
4-Chloroaniline	ND	0.80	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
4-Chloro-3-methylphenol	ND	0.80	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2-Chloronaphthalene	ND	0.41	0.078	mg/Kg dry	1	R-06	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2-Chlorophenol	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Dibenzofuran	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Di-n-butylphthalate	ND	0.41	0.090	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Diethylphthalate	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Dimethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2,4-Dinitrophenol	ND	0.80	0.24	mg/Kg dry	1	R-06	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2,4-Dinitrotoluene	ND	0.41	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2,6-Dinitrotoluene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Di-n-octylphthalate	ND	0.41	0.22	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Hexachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Hexachlorobutadiene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Hexachlorocyclopentadiene	ND	0.41	0.087	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00
Sample ID: 16C0347-01
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Isophorone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Nitrobenzene	ND	0.41	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
4-Nitrophenol	ND	0.80	0.090	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
N-Nitrosodiphenylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Pentachlorophenol	ND	0.41	0.099	mg/Kg dry	1	R-06, V-05	SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2,4,5-Trichlorophenol	ND	0.41	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR
Atrazine	ND	0.81	0.69	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 20:37	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	72.6	30-130		3/12/16 20:37
Phenol-d6	74.9	30-130		3/12/16 20:37
Nitrobenzene-d5	76.6	30-130		3/12/16 20:37
2-Fluorobiphenyl	84.1	30-130		3/12/16 20:37
2,4,6-Tribromophenol	91.5	30-130		3/12/16 20:37
p-Terphenyl-d14	96.0	30-130		3/12/16 20:37

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00
Sample ID: 16C0347-01
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Phenanthrene, 1-methyl-7-(1...	1.5	mg/Kg dry	1198980	6.568	1	000483-65-8	99	SW-846 8270D	3/9/16	3/12/16 20:37	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00

Sample ID: 16C0347-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.037	3.2	0.031	mg/Kg dry	5	MS-07, J	SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Arsenic	1.9	0.30	0.23	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:02	MJH
Beryllium	0.38	0.41	0.034	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Chromium	15	7.5	0.48	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Copper	8.2	7.5	0.078	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Iron	27000	60	26	mg/Kg dry	20	MS-19	SW-846 6020A/B	3/12/16	3/15/16 11:25	MJH
Lead	12	3.0	0.063	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Manganese	160	7.8	0.10	mg/Kg dry	5	MS-19, R-02	SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Mercury	17	30	5.1	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/14/16 14:25	TGW
Nickel	3.5	7.5	0.16	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Selenium	0.35	1.3	0.22	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Silver	0.049	0.13	0.043	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Thallium	0.12	0.096	0.027	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Zinc	24	15	0.24	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH
Cadmium	ND	0.57	0.026	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 14:54	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-7 (3.5)
Sampled: 3/7/2016 16:00

Sample ID: 16C0347-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	220	30	16	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.7	0.38	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	480	320	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	82.2			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15
Sample ID: 16C0347-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Benzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Bromobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Bromodichloromethane	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
2-Butanone (MEK)	ND	0.044	0.019	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Carbon Disulfide	ND	0.0066	0.0038	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Carbon Tetrachloride	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Chlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Chlorodibromomethane	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Chloroform	ND	0.0044	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Chloromethane	ND	0.011	0.00098	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Cyclohexane	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,1-Dichloroethane	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,1-Dichloroethylene	ND	0.0044	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,4-Dioxane	ND	0.11	0.063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Ethylbenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Methyl Acetate	ND	0.0022	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Methylene Chloride	ND	0.022	0.0078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Styrene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Toluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15
Sample ID: 16C0347-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Trichloroethylene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
m+p Xylene	ND	0.0044	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF
o-Xylene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		3/10/16 14:28
Toluene-d8	93.3	70-130		3/10/16 14:28
4-Bromofluorobenzene	102	70-130		3/10/16 14:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15
Sample ID: 16C0347-02
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.016	mg/Kg dry	151816	1.032	1	000075-37-6	91	SW-846 8260C	3/10/16	3/10/16 14:28	MFF
Hexane	0.015	mg/Kg dry	139560	2.659	1	000110-54-3	90	SW-846 8260C	3/10/16	3/10/16 14:28	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15

Sample ID: 16C0347-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.015	0.0022	0.0015	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 12:25	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	134	40-160		3/14/16 12:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15
Sample ID: 16C0347-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.41	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Butylbenzylphthalate	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
4-Chloroaniline	ND	0.78	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
4-Chloro-3-methylphenol	ND	0.78	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2-Chloronaphthalene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Dibenzofuran	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Di-n-butylphthalate	ND	0.40	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2,4-Dichlorophenol	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2,4-Dimethylphenol	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Hexachloroethane	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15
Sample ID: 16C0347-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Nitrobenzene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
4-Nitrophenol	ND	0.78	0.088	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 21:01	CMR
N-Nitrosodiphenylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Pentachlorophenol	ND	0.40	0.097	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Phenol	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2,4,5-Trichlorophenol	ND	0.40	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR
Atrazine	ND	0.79	0.67	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:01	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	75.0	30-130		3/12/16 21:01
Phenol-d6	77.6	30-130		3/12/16 21:01
Nitrobenzene-d5	79.7	30-130		3/12/16 21:01
2-Fluorobiphenyl	89.0	30-130		3/12/16 21:01
2,4,6-Tribromophenol	100	30-130		3/12/16 21:01
p-Terphenyl-d14	95.3	30-130		3/12/16 21:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15
Sample ID: 16C0347-02
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/12/16 21:01	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15

Sample ID: 16C0347-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.2	0.030	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Arsenic	0.36	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:05	MJH
Beryllium	0.64	0.40	0.033	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Chromium	6.2	7.3	0.46	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Copper	3.6	7.3	0.076	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Iron	1800	15	6.4	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:05	MJH
Lead	4.4	2.9	0.061	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Manganese	29	7.6	0.099	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:05	MJH
Mercury	ND	30	5.0	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:26	TGW
Nickel	3.2	7.3	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Silver	ND	0.13	0.042	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Thallium	0.043	0.094	0.027	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Zinc	11	15	0.23	mg/Kg dry	5	B, J	SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH
Cadmium	ND	0.56	0.025	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:17	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-7 (12.5)
Sampled: 3/7/2016 16:15

Sample ID: 16C0347-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	32	17	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.6	0.37	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	460	310	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	84.0			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25
Sample ID: 16C0347-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Bromobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Carbon Disulfide	ND	0.0070	0.0041	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Chlorobenzene	0.0016	0.0023	0.00081	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Cyclohexane	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,4-Dichlorobenzene	0.0026	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Isopropylbenzene (Cumene)	0.0019	0.0023	0.00081	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Methyl Acetate	ND	0.0023	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25
Sample ID: 16C0347-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Trichloroethylene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 14:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	103	70-130		3/10/16 14:55
Toluene-d8	92.7	70-130		3/10/16 14:55
4-Bromofluorobenzene	106	70-130		3/10/16 14:55

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25
Sample ID: 16C0347-03
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene, 2-ethyl-1,3-dimethyl-	0.013	mg/Kg dry	182362	10.6	1	002870-04-4	94	SW-846 8260C	3/10/16	3/10/16 14:55	MFF
Ethane, 1,1-difluoro-	0.043	mg/Kg dry	360129	1.029	1	000075-37-6	91	SW-846 8260C	3/10/16	3/10/16 14:55	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25
Sample ID: 16C0347-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.049	0.0022	0.0016	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 12:54	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	157	40-160		3/14/16 12:54

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25
Sample ID: 16C0347-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.89	0.46	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Benzaldehyde	ND	0.45	0.43	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Biphenyl	ND	0.89	0.57	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Caprolactam	ND	0.45	0.34	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Acenaphthene	ND	0.23	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Acenaphthylene	ND	0.23	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Acetophenone	ND	0.45	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Anthracene	ND	0.23	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Benzo(a)anthracene	ND	0.23	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Benzo(a)pyrene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Benzo(b)fluoranthene	ND	0.23	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Benzo(g,h,i)perylene	ND	0.23	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Benzo(k)fluoranthene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Bis(2-chloroethoxy)methane	ND	0.45	0.087	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Bis(2-chloroethyl)ether	ND	0.45	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Bis(2-Ethylhexyl)phthalate	4.7	0.45	0.18	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4-Bromophenylphenylether	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Butylbenzylphthalate	ND	0.45	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Carbazole	ND	0.23	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4-Chloroaniline	ND	0.88	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4-Chloro-3-methylphenol	ND	0.88	0.097	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2-Chloronaphthalene	ND	0.45	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2-Chlorophenol	ND	0.45	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4-Chlorophenylphenylether	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Chrysene	ND	0.23	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Dibenz(a,h)anthracene	ND	0.23	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Dibenzofuran	ND	0.45	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Di-n-butylphthalate	ND	0.45	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
3,3-Dichlorobenzidine	ND	0.23	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2,4-Dichlorophenol	ND	0.45	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Diethylphthalate	ND	0.45	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2,4-Dimethylphenol	ND	0.45	0.084	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Dimethylphthalate	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4,6-Dinitro-2-methylphenol	ND	0.45	0.43	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2,4-Dinitrophenol	ND	0.88	0.26	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2,4-Dinitrotoluene	ND	0.45	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2,6-Dinitrotoluene	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Di-n-octylphthalate	ND	0.45	0.24	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Fluoranthene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Fluorene	ND	0.23	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Hexachlorobenzene	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Hexachlorobutadiene	ND	0.45	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Hexachlorocyclopentadiene	ND	0.45	0.096	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Hexachloroethane	ND	0.45	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25
Sample ID: 16C0347-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.23	0.16	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Isophorone	ND	0.45	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2-Methylnaphthalene	ND	0.23	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2-Methylphenol	ND	0.45	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
3/4-Methylphenol	ND	0.45	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Naphthalene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2-Nitroaniline	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
3-Nitroaniline	ND	0.45	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4-Nitroaniline	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Nitrobenzene	ND	0.45	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2-Nitrophenol	ND	0.45	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4-Nitrophenol	ND	0.88	0.099	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
N-Nitrosodiphenylamine	ND	0.45	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
N-Nitrosodi-n-propylamine	ND	0.45	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Pentachlorophenol	ND	0.45	0.11	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Phenanthrene	ND	0.23	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Phenol	ND	0.45	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Pyrene	ND	0.23	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.45	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2,4,5-Trichlorophenol	ND	0.45	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
2,4,6-Trichlorophenol	ND	0.45	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Atrazine	ND	0.89	0.75	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:25	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	44.4	30-130		3/12/16 21:25
Phenol-d6	46.7	30-130		3/12/16 21:25
Nitrobenzene-d5	51.1	30-130		3/12/16 21:25
2-Fluorobiphenyl	48.7	30-130		3/12/16 21:25
2,4,6-Tribromophenol	47.3	30-130		3/12/16 21:25
p-Terphenyl-d14	54.1	30-130		3/12/16 21:25

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25
Sample ID: 16C0347-03
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
.beta.-Sitosterol	1.5	mg/Kg dry	642959	12.318	1	000083-46-5	87	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
10,18-Bisnorabieta-5,7,9(10...	2.6	mg/Kg dry	1575650	6.228	1	006566-19-4	99	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4b,8-Dimethyl-2-isopropylph...	0.99	mg/Kg dry	595774	6.03	1	1000197-14-1	92	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
4H-Dibenz[a,kl]anthracene, ...	1.4	mg/Kg dry	605181	12.76	1	007198-87-0	89	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Hexadecane	0.84	mg/Kg dry	368585	9.382	1	000544-76-3	86	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Pentadecane, 2,6,10,14-tetr...	0.59	mg/Kg dry	353853	5.1	1	001921-70-6	90	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Phenanthrene, 1-methyl-7-(1...	11	mg/Kg dry	5490140	6.576	1	000483-65-8	99	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Tricosane	0.83	mg/Kg dry	361335	10.719	1	000638-67-5	87	SW-846 8270D	3/9/16	3/12/16 21:25	CMR
Vitamin E	0.73	mg/Kg dry	317451	10.943	1	010191-41-0	94	SW-846 8270D	3/9/16	3/12/16 21:25	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25

Sample ID: 16C0347-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.37	3.4	0.032	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Arsenic	2.1	0.32	0.24	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:07	MJH
Beryllium	0.31	0.43	0.036	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Chromium	23	7.9	0.50	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Copper	36	7.9	0.081	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Iron	34000	63	28	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 11:28	MJH
Lead	100	3.2	0.066	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Manganese	120	8.2	0.11	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:07	MJH
Mercury	76	33	5.6	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:28	TGW
Nickel	37	7.9	0.16	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Selenium	0.45	1.3	0.23	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Silver	0.44	0.14	0.045	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Thallium	0.14	0.10	0.029	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH
Zinc	880	63	0.99	mg/Kg dry	20	B	SW-846 6020A/B	3/12/16	3/15/16 11:28	MJH
Cadmium	0.60	0.60	0.027	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:20	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-7 (5-10)
Sampled: 3/7/2016 16:25

Sample ID: 16C0347-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	100	37	19	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.8	0.39	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	1300	880	mg/Kg dry	5	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	74.2			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30
Sample ID: 16C0347-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.14	0.034	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Benzene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Bromobenzene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Bromochloromethane	ND	0.0029	0.0020	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Bromodichloromethane	ND	0.0029	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Bromoform	ND	0.0029	0.0020	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Bromomethane	ND	0.014	0.0024	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
2-Butanone (MEK)	ND	0.058	0.025	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Carbon Disulfide	ND	0.0086	0.0050	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Carbon Tetrachloride	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Chlorobenzene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Chlorodibromomethane	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Chloroethane	ND	0.029	0.0022	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Chloroform	ND	0.0058	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Chloromethane	ND	0.014	0.0013	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Cyclohexane	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0029	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,2-Dichlorobenzene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,3-Dichlorobenzene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,4-Dichlorobenzene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.029	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,1-Dichloroethane	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,2-Dichloroethane	ND	0.0029	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,1-Dichloroethylene	ND	0.0058	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
cis-1,2-Dichloroethylene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
trans-1,2-Dichloroethylene	ND	0.0029	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,2-Dichloropropane	ND	0.0029	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
cis-1,3-Dichloropropene	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
trans-1,3-Dichloropropene	ND	0.0014	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,4-Dioxane	ND	0.14	0.083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Ethylbenzene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
2-Hexanone (MBK)	ND	0.029	0.016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Isopropylbenzene (Cumene)	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Methyl Acetate	ND	0.0029	0.0023	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0058	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Methylene Chloride	ND	0.029	0.010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.029	0.011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Styrene	ND	0.0029	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.0014	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Tetrachloroethylene	ND	0.0029	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Toluene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,2,3-Trichlorobenzene	ND	0.0029	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,2,4-Trichlorobenzene	ND	0.0029	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30
Sample ID: 16C0347-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0029	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,1,2-Trichloroethane	ND	0.0029	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Trichloroethylene	ND	0.0029	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.014	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.014	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
Vinyl Chloride	ND	0.014	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
m+p Xylene	ND	0.0058	0.0024	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF
o-Xylene	ND	0.0029	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	109	70-130		3/10/16 15:23
Toluene-d8	94.5	70-130		3/10/16 15:23
4-Bromofluorobenzene	101	70-130		3/10/16 15:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30
Sample ID: 16C0347-04
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.052	mg/Kg dry	350895	1.035	1	000075-37-6	91	SW-846 8260C	3/10/16	3/10/16 15:23	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30

Sample ID: 16C0347-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 13:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	155	40-160		3/14/16 13:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30
Sample ID: 16C0347-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.95	0.48	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Benzaldehyde	ND	0.48	0.46	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Biphenyl	ND	0.95	0.60	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Caprolactam	ND	0.48	0.36	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Acenaphthene	ND	0.24	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Acenaphthylene	ND	0.24	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Acetophenone	ND	0.48	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Anthracene	ND	0.24	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Benzo(a)anthracene	ND	0.24	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Benzo(a)pyrene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Benzo(b)fluoranthene	ND	0.24	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Benzo(g,h,i)perylene	ND	0.24	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Benzo(k)fluoranthene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Bis(2-chloroethoxy)methane	ND	0.48	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Bis(2-chloroethyl)ether	ND	0.48	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.48	0.19	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
4-Bromophenylphenylether	ND	0.48	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Butylbenzylphthalate	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Carbazole	ND	0.24	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
4-Chloroaniline	ND	0.93	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
4-Chloro-3-methylphenol	ND	0.93	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2-Chloronaphthalene	ND	0.48	0.090	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2-Chlorophenol	ND	0.48	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
4-Chlorophenylphenylether	ND	0.48	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Chrysene	ND	0.24	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Dibenz(a,h)anthracene	ND	0.24	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Dibenzofuran	ND	0.48	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Di-n-butylphthalate	ND	0.48	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
3,3-Dichlorobenzidine	ND	0.24	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2,4-Dichlorophenol	ND	0.48	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Diethylphthalate	ND	0.48	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2,4-Dimethylphenol	ND	0.48	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Dimethylphthalate	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
4,6-Dinitro-2-methylphenol	ND	0.48	0.46	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2,4-Dinitrophenol	ND	0.93	0.27	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2,4-Dinitrotoluene	ND	0.48	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2,6-Dinitrotoluene	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Di-n-octylphthalate	ND	0.48	0.25	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Fluoranthene	ND	0.24	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Fluorene	ND	0.24	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Hexachlorobenzene	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Hexachlorobutadiene	ND	0.48	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Hexachlorocyclopentadiene	ND	0.48	0.10	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Hexachloroethane	ND	0.48	0.096	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30
Sample ID: 16C0347-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.24	0.17	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Isophorone	ND	0.48	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2-Methylnaphthalene	ND	0.24	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2-Methylphenol	ND	0.48	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
3/4-Methylphenol	ND	0.48	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Naphthalene	ND	0.24	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2-Nitroaniline	ND	0.48	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
3-Nitroaniline	ND	0.48	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
4-Nitroaniline	ND	0.48	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Nitrobenzene	ND	0.48	0.090	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2-Nitrophenol	ND	0.48	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
4-Nitrophenol	ND	0.93	0.10	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 21:49	CMR
N-Nitrosodiphenylamine	ND	0.48	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
N-Nitrosodi-n-propylamine	ND	0.48	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Pentachlorophenol	ND	0.48	0.12	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Phenanthrene	ND	0.24	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Phenol	ND	0.48	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Pyrene	ND	0.24	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.48	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2,4,5-Trichlorophenol	ND	0.48	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
2,4,6-Trichlorophenol	ND	0.48	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR
Atrazine	ND	0.95	0.80	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 21:49	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	74.6	30-130		3/12/16 21:49
Phenol-d6	77.8	30-130		3/12/16 21:49
Nitrobenzene-d5	74.3	30-130		3/12/16 21:49
2-Fluorobiphenyl	81.3	30-130		3/12/16 21:49
2,4,6-Tribromophenol	91.0	30-130		3/12/16 21:49
p-Terphenyl-d14	87.7	30-130		3/12/16 21:49

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30
Sample ID: 16C0347-04
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/12/16 21:49	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30

Sample ID: 16C0347-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.075	3.8	0.036	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Arsenic	3.8	0.35	0.27	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:10	MJH
Beryllium	0.88	0.48	0.040	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Chromium	18	8.8	0.56	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Copper	17	8.8	0.091	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Iron	90000	71	31	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 11:31	MJH
Lead	10	3.5	0.074	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Manganese	1400	37	0.48	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 11:31	MJH
Mercury	57	34	5.7	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:29	TGW
Nickel	7.5	8.8	0.18	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Selenium	ND	1.5	0.25	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Silver	0.11	0.16	0.050	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Thallium	0.19	0.11	0.032	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Zinc	52	18	0.28	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH
Cadmium	ND	0.67	0.030	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:22	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (3.5)
Sampled: 3/8/2016 08:30

Sample ID: 16C0347-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	260	40	21	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	3.3	0.46	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	280	190	mg/Kg dry	1		ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	70.4			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50
Sample ID: 16C0347-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.099	0.023	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Benzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Bromomethane	ND	0.0099	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
2-Butanone (MEK)	ND	0.040	0.017	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Carbon Disulfide	ND	0.0060	0.0035	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Chlorodibromomethane	ND	0.00099	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Chloromethane	ND	0.0099	0.00089	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,2-Dibromoethane (EDB)	ND	0.00099	0.00099	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
cis-1,2-Dichloroethylene	0.084	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00089	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
cis-1,3-Dichloropropene	ND	0.00099	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
trans-1,3-Dichloropropene	ND	0.00099	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,4-Dioxane	ND	0.099	0.057	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00089	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Styrene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.00099	0.00089	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Tetrachloroethylene	6.3	1.3		mg/Kg dry	20		SW-846 8260B	3/11/16	3/11/16 17:28	WSD
Toluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50
Sample ID: 16C0347-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.00099	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Trichloroethylene	3.2	1.3		mg/Kg dry	20		SW-846 8260B	3/11/16	3/11/16 17:28	WSD
Trichlorofluoromethane (Freon 11)	ND	0.0099	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0099	0.00089	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
Vinyl Chloride	0.0037	0.0099	0.0011	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/10/16 15:50	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 15:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.0	70-130		3/11/16 17:28
1,2-Dichloroethane-d4	106	70-130		3/10/16 15:50
Toluene-d8	98.4	70-130		3/11/16 17:28
Toluene-d8	93.2	70-130		3/10/16 15:50
4-Bromofluorobenzene	98.1	70-130		3/11/16 17:28
4-Bromofluorobenzene	100	70-130		3/10/16 15:50

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50
Sample ID: 16C0347-05
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/10/16	3/10/16 15:50	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50
Sample ID: 16C0347-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 13:51	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	152	40-160		3/14/16 13:51

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50
Sample ID: 16C0347-05
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.77	0.39	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Benzaldehyde	ND	0.39	0.37	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Biphenyl	ND	0.77	0.49	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Caprolactam	ND	0.39	0.30	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Acenaphthene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Acenaphthylene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Acetophenone	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Anthracene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Benzo(a)anthracene	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Benzo(a)pyrene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Benzo(b)fluoranthene	ND	0.20	0.055	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Benzo(g,h,i)perylene	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Benzo(k)fluoranthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Bis(2-chloroethoxy)methane	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Bis(2-chloroethyl)ether	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Bis(2-Ethylhexyl)phthalate	4.3	0.39	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
4-Bromophenylphenylether	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Butylbenzylphthalate	ND	0.39	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
4-Chloroaniline	ND	0.76	0.090	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
4-Chloro-3-methylphenol	ND	0.76	0.084	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2-Chloronaphthalene	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2-Chlorophenol	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
4-Chlorophenylphenylether	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Chrysene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Dibenzofuran	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Di-n-butylphthalate	ND	0.39	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
3,3-Dichlorobenzidine	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2,4-Dichlorophenol	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Diethylphthalate	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2,4-Dimethylphenol	ND	0.39	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Dimethylphthalate	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2,4-Dinitrophenol	ND	0.76	0.22	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2,4-Dinitrotoluene	ND	0.39	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2,6-Dinitrotoluene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Di-n-octylphthalate	ND	0.39	0.20	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Fluorene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Hexachlorobenzene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Hexachlorobutadiene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Hexachlorocyclopentadiene	ND	0.39	0.083	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Hexachloroethane	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50
Sample ID: 16C0347-05
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Isophorone	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2-Methylnaphthalene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2-Methylphenol	ND	0.39	0.098	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
3/4-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2-Nitroaniline	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
3-Nitroaniline	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
4-Nitroaniline	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Nitrobenzene	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2-Nitrophenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
4-Nitrophenol	ND	0.76	0.085	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
N-Nitrosodiphenylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
N-Nitrosodi-n-propylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Pentachlorophenol	ND	0.39	0.094	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Phenol	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2,4,5-Trichlorophenol	ND	0.39	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
2,4,6-Trichlorophenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Atrazine	ND	0.77	0.65	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:13	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	52.9	30-130		3/12/16 22:13
Phenol-d6	55.7	30-130		3/12/16 22:13
Nitrobenzene-d5	57.0	30-130		3/12/16 22:13
2-Fluorobiphenyl	62.2	30-130		3/12/16 22:13
2,4,6-Tribromophenol	67.2	30-130		3/12/16 22:13
p-Terphenyl-d14	66.9	30-130		3/12/16 22:13

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50
Sample ID: 16C0347-05
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
10,18-Bisnorabieta-5,7,9(10...	0.48	mg/Kg dry	472997	6.228	1	006566-19-4	99	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
4b,8-Dimethyl-2-isopropylph...	0.96	mg/Kg dry	953637	6.027	1	1000197-14-1	95	SW-846 8270D	3/9/16	3/12/16 22:13	CMR
Phenanthrene, 1-methyl-7-(1...	0.77	mg/Kg dry	666099	6.568	1	000483-65-8	98	SW-846 8270D	3/9/16	3/12/16 22:13	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50
Sample ID: 16C0347-05
Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.038	2.9	0.027	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Arsenic	0.49	0.27	0.20	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:32	MJH
Beryllium	0.22	0.36	0.030	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Chromium	10	6.6	0.42	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Copper	4.6	6.6	0.069	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Iron	6000	13	5.8	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:32	MJH
Lead	16	2.7	0.055	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Manganese	60	6.9	0.090	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:32	MJH
Mercury	ND	28	4.7	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:34	TGW
Nickel	3.3	6.6	0.14	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Selenium	ND	1.1	0.19	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Silver	0.12	0.12	0.038	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Thallium	0.057	0.085	0.024	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Zinc	17	13	0.21	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH
Cadmium	0.17	0.50	0.023	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:25	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (10)
Sampled: 3/8/2016 08:50

Sample ID: 16C0347-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	33	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.7	0.38	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	400	270	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	86.7			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (13)
Sampled: 3/8/2016 09:00
Sample ID: 16C0347-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.091	0.021	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Benzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Bromobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Bromochloromethane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Bromodichloromethane	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Bromoform	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Bromomethane	ND	0.0091	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
2-Butanone (MEK)	ND	0.036	0.016	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Carbon Disulfide	ND	0.0055	0.0032	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Carbon Tetrachloride	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Chlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Chlorodibromomethane	ND	0.00091	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Chloroethane	ND	0.018	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Chloroform	ND	0.0036	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Chloromethane	ND	0.0091	0.00082	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Cyclohexane	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,2-Dibromoethane (EDB)	ND	0.00091	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,1-Dichloroethane	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,2-Dichloroethane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,1-Dichloroethylene	ND	0.0036	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
cis-1,2-Dichloroethylene	0.10	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00082	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,2-Dichloropropane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
cis-1,3-Dichloropropene	ND	0.00091	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
trans-1,3-Dichloropropene	ND	0.00091	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,4-Dioxane	ND	0.091	0.053	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Ethylbenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
2-Hexanone (MBK)	ND	0.018	0.0099	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Methyl Acetate	ND	0.0018	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00082	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Methylene Chloride	ND	0.018	0.0065	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0069	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Styrene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.00091	0.00082	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Tetrachloroethylene	6.7	1.1		mg/Kg dry	20		SW-846 8260B	3/11/16	3/11/16 17:54	WSD
Toluene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00055	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (13)
Sampled: 3/8/2016 09:00
Sample ID: 16C0347-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0018	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,1,2-Trichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Trichloroethylene	2.8	1.1		mg/Kg dry	20		SW-846 8260B	3/11/16	3/11/16 17:54	WSD
Trichlorofluoromethane (Freon 11)	ND	0.0091	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0091	0.00082	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
Vinyl Chloride	0.0041	0.0091	0.0010	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/10/16 16:18	MFF
m+p Xylene	ND	0.0036	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF
o-Xylene	ND	0.0018	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		3/11/16 17:54
1,2-Dichloroethane-d4	109	70-130		3/10/16 16:18
Toluene-d8	97.5	70-130		3/11/16 17:54
Toluene-d8	92.0	70-130		3/10/16 16:18
4-Bromofluorobenzene	98.4	70-130		3/11/16 17:54
4-Bromofluorobenzene	99.1	70-130		3/10/16 16:18

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (13)
Sampled: 3/8/2016 09:00
Sample ID: 16C0347-06
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/10/16	3/10/16 16:18	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (13)
Sampled: 3/8/2016 09:00

Sample ID: 16C0347-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 14:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	159	40-160		3/14/16 14:19

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (13)
Sampled: 3/8/2016 09:00
Sample ID: 16C0347-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.40	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Butylbenzylphthalate	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
4-Chloroaniline	ND	0.78	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
4-Chloro-3-methylphenol	ND	0.78	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2-Chloronaphthalene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Dibenzofuran	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Di-n-butylphthalate	ND	0.40	0.087	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Hexachloroethane	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC | Sample Description: | Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (13) | Sampled: 3/8/2016 09:00

Sample ID: 16C0347-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Nitrobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
4-Nitrophenol	ND	0.78	0.087	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 22:37	CMR
N-Nitrosodiphenylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Pentachlorophenol	ND	0.40	0.097	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2,4,5-Trichlorophenol	ND	0.40	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR
Atrazine	ND	0.79	0.67	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 22:37	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	83.6	30-130		3/12/16 22:37
Phenol-d6	86.2	30-130		3/12/16 22:37
Nitrobenzene-d5	89.1	30-130		3/12/16 22:37
2-Fluorobiphenyl	98.0	30-130		3/12/16 22:37
2,4,6-Tribromophenol	107	30-130		3/12/16 22:37
p-Terphenyl-d14	110	30-130		3/12/16 22:37

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (13)
Sampled: 3/8/2016 09:00
Sample ID: 16C0347-06
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/12/16 22:37	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (13)
Sampled: 3/8/2016 09:00

Sample ID: 16C0347-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.1	0.029	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Arsenic	0.81	0.28	0.22	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:35	MJH
Beryllium	0.54	0.39	0.032	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Chromium	26	7.1	0.45	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Copper	3.0	7.1	0.073	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Iron	7800	140	62	mg/Kg dry	50		SW-846 6020A/B	3/12/16	3/15/16 11:55	MJH
Lead	4.4	2.8	0.059	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Manganese	78	7.4	0.096	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:35	MJH
Mercury	ND	29	4.8	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:36	TGW
Nickel	2.9	7.1	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Selenium	ND	1.2	0.20	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Silver	ND	0.13	0.040	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Thallium	ND	0.091	0.026	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Zinc	10	14	0.22	mg/Kg dry	5	B, J	SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH
Cadmium	ND	0.54	0.025	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:28	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (13)
Sampled: 3/8/2016 09:00

Sample ID: 16C0347-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	30	16	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.6	0.37	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	230	160	mg/Kg dry	1		ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	84.3			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05
Sample ID: 16C0347-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.30	0.16	0.037	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Benzene	0.0011	0.0032	0.0011	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Bromobenzene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Bromochloromethane	ND	0.0032	0.0022	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Bromodichloromethane	ND	0.0032	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Bromoform	ND	0.0032	0.0022	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Bromomethane	ND	0.016	0.0027	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
2-Butanone (MEK)	ND	0.064	0.028	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Carbon Disulfide	ND	0.0095	0.0056	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Carbon Tetrachloride	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Chlorobenzene	0.0063	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Chlorodibromomethane	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Chloroethane	ND	0.032	0.0024	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Chloroform	ND	0.0064	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Chloromethane	ND	0.016	0.0014	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Cyclohexane	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0032	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,2-Dichlorobenzene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,3-Dichlorobenzene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,4-Dichlorobenzene	0.017	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.032	0.0021	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,1-Dichloroethane	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,2-Dichloroethane	ND	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,1-Dichloroethylene	ND	0.0064	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
cis-1,2-Dichloroethylene	0.0043	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
trans-1,2-Dichloroethylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,2-Dichloropropane	ND	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
cis-1,3-Dichloropropene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
trans-1,3-Dichloropropene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,4-Dioxane	ND	0.16	0.092	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Ethylbenzene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
2-Hexanone (MBK)	ND	0.032	0.017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Isopropylbenzene (Cumene)	0.0039	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Methyl Acetate	ND	0.0032	0.0025	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0064	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Methylene Chloride	ND	0.032	0.011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.032	0.012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Styrene	ND	0.0032	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Tetrachloroethylene	0.065	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Toluene	0.0036	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,2,3-Trichlorobenzene	ND	0.0032	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,2,4-Trichlorobenzene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05
Sample ID: 16C0347-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0032	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,1,2-Trichloroethane	ND	0.0032	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Trichloroethylene	0.012	0.0032	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.016	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
Vinyl Chloride	ND	0.016	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
m+p Xylene	ND	0.0064	0.0027	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF
o-Xylene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 16:45	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	108	70-130		3/10/16 16:45
Toluene-d8	96.2	70-130		3/10/16 16:45
4-Bromofluorobenzene	105	70-130		3/10/16 16:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05
Sample ID: 16C0347-07
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/10/16	3/10/16 16:45	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05
Sample ID: 16C0347-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0027	0.0032	0.0023	mg/Kg dry	1	J	SW-846 8260C	3/14/16	3/14/16 14:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	136	40-160		3/14/16 14:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05
Sample ID: 16C0347-07
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.1	0.55	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Benzaldehyde	ND	0.55	0.52	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Biphenyl	ND	1.1	0.69	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Caprolactam	ND	0.55	0.42	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Acenaphthene	ND	0.28	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Acenaphthylene	ND	0.28	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Acetophenone	ND	0.55	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Anthracene	ND	0.28	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Benzo(a)anthracene	ND	0.28	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Benzo(a)pyrene	ND	0.28	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Benzo(b)fluoranthene	ND	0.28	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Benzo(g,h,i)perylene	ND	0.28	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Benzo(k)fluoranthene	ND	0.28	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Bis(2-chloroethoxy)methane	ND	0.55	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Bis(2-chloroethyl)ether	ND	0.55	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Bis(2-Ethylhexyl)phthalate	20	5.5	2.1	mg/Kg dry	10		SW-846 8270D	3/9/16	3/15/16 12:36	CMR
4-Bromophenylphenylether	ND	0.55	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Butylbenzylphthalate	ND	0.55	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Carbazole	ND	0.28	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
4-Chloroaniline	ND	1.1	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
4-Chloro-3-methylphenol	ND	1.1	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2-Chloronaphthalene	ND	0.55	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2-Chlorophenol	ND	0.55	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
4-Chlorophenylphenylether	ND	0.55	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Chrysene	ND	0.28	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Dibenz(a,h)anthracene	ND	0.28	0.17	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Dibenzofuran	ND	0.55	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Di-n-butylphthalate	ND	0.55	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
3,3-Dichlorobenzidine	ND	0.28	0.084	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2,4-Dichlorophenol	ND	0.55	0.094	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Diethylphthalate	ND	0.55	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2,4-Dimethylphenol	ND	0.55	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Dimethylphthalate	ND	0.55	0.097	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
4,6-Dinitro-2-methylphenol	ND	0.55	0.52	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2,4-Dinitrophenol	ND	1.1	0.31	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2,4-Dinitrotoluene	ND	0.55	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2,6-Dinitrotoluene	ND	0.55	0.097	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Di-n-octylphthalate	ND	0.55	0.29	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Fluoranthene	ND	0.28	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Fluorene	ND	0.28	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Hexachlorobenzene	ND	0.55	0.097	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Hexachlorobutadiene	ND	0.55	0.097	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Hexachlorocyclopentadiene	ND	0.55	0.12	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Hexachloroethane	ND	0.55	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05
Sample ID: 16C0347-07
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.28	0.20	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Isophorone	ND	0.55	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2-Methylnaphthalene	0.48	0.28	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2-Methylphenol	ND	0.55	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
3/4-Methylphenol	ND	0.55	0.17	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Naphthalene	0.24	0.28	0.14	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2-Nitroaniline	ND	0.55	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
3-Nitroaniline	ND	0.55	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
4-Nitroaniline	ND	0.55	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Nitrobenzene	ND	0.55	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2-Nitrophenol	ND	0.55	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
4-Nitrophenol	ND	1.1	0.12	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
N-Nitrosodiphenylamine	ND	0.55	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
N-Nitrosodi-n-propylamine	ND	0.55	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Pentachlorophenol	ND	0.55	0.13	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Phenanthrene	0.19	0.28	0.14	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Phenol	ND	0.55	0.094	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Pyrene	ND	0.28	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.55	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2,4,5-Trichlorophenol	ND	0.55	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
2,4,6-Trichlorophenol	ND	0.55	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Atrazine	ND	1.1	0.91	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:01	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	62.3	30-130		3/12/16 23:01
Phenol-d6	65.2	30-130		3/12/16 23:01
Nitrobenzene-d5	68.8	30-130		3/12/16 23:01
2-Fluorobiphenyl	80.3	30-130		3/12/16 23:01
2,4,6-Tribromophenol	81.4	30-130		3/12/16 23:01
p-Terphenyl-d14	73.0	30-130		3/12/16 23:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05

Sample ID: 16C0347-07

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
10,18-Bisnorabieta-5,7,9(10...	7.4	mg/Kg dry	21669900	6.236	1	006566-19-4	99	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
1-Phenanthrenecarboxylic ac...	2.2	mg/Kg dry	29360900	7.385	1	001740-19-8	99	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
4b,8-Dimethyl-2-isopropylph...	16	mg/Kg dry	45412200	6.043	1	1000197-14-1	99	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Abietic Acid	6.2	mg/Kg dry	85019200	7.639	1	000514-10-3	99	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Bicyclo[5.2.0]nonane, 4-met...	0.60	mg/Kg dry	8104060	6.844	1	1000159-38-2	86	SW-846 8270D	3/9/16	3/12/16 23:01	CMR
Phenanthrene, 1-methyl-7-(1...	1.7	mg/Kg dry	22755200	6.584	1	000483-65-8	99	SW-846 8270D	3/9/16	3/12/16 23:01	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05

Sample ID: 16C0347-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	1.5	4.3	0.040	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Arsenic	2.9	0.40	0.30	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:37	MJH
Beryllium	0.39	0.54	0.045	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Chromium	21	9.9	0.63	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Copper	29	9.9	0.10	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Iron	32000	79	35	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 11:34	MJH
Lead	1900	16	0.33	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 11:34	MJH
Manganese	320	10	0.13	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:37	MJH
Mercury	160	41	6.9	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:37	TGW
Nickel	13	9.9	0.20	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Selenium	0.49	1.7	0.28	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Silver	0.98	0.17	0.056	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Thallium	0.18	0.13	0.036	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Zinc	250	20	0.31	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH
Cadmium	3.2	0.75	0.034	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:31	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-8 (5-10)
Sampled: 3/8/2016 09:05

Sample ID: 16C0347-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	110	47	25	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	4.0	0.56	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	320	210	mg/Kg dry	1		ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	61.4			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05
Sample ID: 16C0347-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Benzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Bromodichloromethane	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
2-Butanone (MEK)	ND	0.052	0.023	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Carbon Disulfide	ND	0.0078	0.0046	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Chlorobenzene	0.0012	0.0026	0.00091	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Chlorodibromomethane	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Chloroethane	ND	0.026	0.0020	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Chloroform	ND	0.0052	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Cyclohexane	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,1-Dichloroethane	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,1-Dichloroethylene	ND	0.0052	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,4-Dioxane	ND	0.13	0.075	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Methylene Chloride	ND	0.026	0.0093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0099	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Styrene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05
Sample ID: 16C0347-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Trichloroethylene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
m+p Xylene	ND	0.0052	0.0022	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF
o-Xylene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 17:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	100	70-130		3/10/16 17:13
Toluene-d8	95.4	70-130		3/10/16 17:13
4-Bromofluorobenzene	101	70-130		3/10/16 17:13

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05
Sample ID: 16C0347-08
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.039	mg/Kg dry	302747	1.029	1	000075-37-6	91	SW-846 8260C	3/10/16	3/10/16 17:13	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05
Sample ID: 16C0347-08
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0017	0.0020	0.0014	mg/Kg dry	1	J	SW-846 8260C	3/14/16	3/14/16 15:17	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	94.6	40-160		3/14/16 15:17

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05
Sample ID: 16C0347-08
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.98	0.50	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Benzaldehyde	ND	0.50	0.47	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Biphenyl	ND	0.98	0.62	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Caprolactam	ND	0.50	0.38	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Acenaphthene	ND	0.25	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Acenaphthylene	ND	0.25	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Acetophenone	ND	0.50	0.098	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Anthracene	ND	0.25	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Benzo(a)anthracene	0.085	0.25	0.066	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Benzo(a)pyrene	0.11	0.25	0.077	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Benzo(b)fluoranthene	0.16	0.25	0.070	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Benzo(g,h,i)perylene	ND	0.25	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Benzo(k)fluoranthene	ND	0.25	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Bis(2-chloroethoxy)methane	ND	0.50	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Bis(2-chloroethyl)ether	ND	0.50	0.098	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Bis(2-Ethylhexyl)phthalate	1.1	0.50	0.19	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
4-Bromophenylphenylether	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Butylbenzylphthalate	ND	0.50	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Carbazole	ND	0.25	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
4-Chloroaniline	ND	0.96	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
4-Chloro-3-methylphenol	ND	0.96	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2-Chloronaphthalene	ND	0.50	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2-Chlorophenol	ND	0.50	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
4-Chlorophenylphenylether	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Chrysene	0.13	0.25	0.077	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Dibenz(a,h)anthracene	ND	0.25	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Dibenzofuran	ND	0.50	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Di-n-butylphthalate	ND	0.50	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
3,3-Dichlorobenzidine	ND	0.25	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2,4-Dichlorophenol	ND	0.50	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Diethylphthalate	ND	0.50	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2,4-Dimethylphenol	ND	0.50	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Dimethylphthalate	ND	0.50	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
4,6-Dinitro-2-methylphenol	ND	0.50	0.47	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2,4-Dinitrophenol	ND	0.96	0.28	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2,4-Dinitrotoluene	ND	0.50	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2,6-Dinitrotoluene	ND	0.50	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Di-n-octylphthalate	ND	0.50	0.26	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Fluoranthene	0.19	0.25	0.082	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Fluorene	ND	0.25	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Hexachlorobenzene	ND	0.50	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Hexachlorobutadiene	ND	0.50	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Hexachlorocyclopentadiene	ND	0.50	0.11	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Hexachloroethane	ND	0.50	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05
Sample ID: 16C0347-08
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Isophorone	ND	0.50	0.096	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2-Methylnaphthalene	ND	0.25	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2-Methylphenol	ND	0.50	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
3/4-Methylphenol	ND	0.50	0.16	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Naphthalene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2-Nitroaniline	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
3-Nitroaniline	ND	0.50	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
4-Nitroaniline	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Nitrobenzene	ND	0.50	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2-Nitrophenol	ND	0.50	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
4-Nitrophenol	ND	0.96	0.11	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
N-Nitrosodiphenylamine	ND	0.50	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
N-Nitrosodi-n-propylamine	ND	0.50	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Pentachlorophenol	ND	0.50	0.12	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Phenanthrene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Phenol	ND	0.50	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Pyrene	0.23	0.25	0.082	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:26	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2,4,5-Trichlorophenol	ND	0.50	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
2,4,6-Trichlorophenol	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR
Atrazine	ND	0.98	0.82	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:26	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	64.5	30-130		3/12/16 23:26
Phenol-d6	69.2	30-130		3/12/16 23:26
Nitrobenzene-d5	68.4	30-130		3/12/16 23:26
2-Fluorobiphenyl	78.3	30-130		3/12/16 23:26
2,4,6-Tribromophenol	91.5	30-130		3/12/16 23:26
p-Terphenyl-d14	86.1	30-130		3/12/16 23:26

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05
Sample ID: 16C0347-08
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Phenanthrene, 1-methyl-7-(1...	1.9	mg/Kg dry	1239180	6.573	1	000483-65-8	98	SW-846 8270D	3/9/16	3/12/16 23:26	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05

Sample ID: 16C0347-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.19	3.8	0.036	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Arsenic	1.4	0.35	0.27	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:40	MJH
Beryllium	0.49	0.48	0.040	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Chromium	26	8.8	0.56	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:40	MJH
Copper	23	8.8	0.091	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Iron	27000	18	7.7	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:40	MJH
Lead	22	3.5	0.073	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Manganese	1200	37	0.48	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 11:36	MJH
Mercury	48	36	6.0	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:39	TGW
Nickel	92	8.8	0.18	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Selenium	ND	1.5	0.25	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Silver	0.12	0.15	0.050	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Thallium	0.20	0.11	0.032	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Zinc	91	18	0.27	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH
Cadmium	0.58	0.67	0.030	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:39	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-9 (4)
Sampled: 3/8/2016 10:05

Sample ID: 16C0347-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	160	43	23	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	3.6	0.51	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	280	190	mg/Kg dry	1		ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	68.3			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15
Sample ID: 16C0347-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Benzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Bromobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
2-Butanone (MEK)	ND	0.042	0.019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Carbon Disulfide	ND	0.0064	0.0037	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Carbon Tetrachloride	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Chlorobenzene	0.0022	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Chlorodibromomethane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Chloroform	ND	0.0042	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Chloromethane	ND	0.011	0.00095	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Cyclohexane	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,4-Dichlorobenzene	0.0010	0.0021	0.00085	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,1-Dichloroethane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,1-Dichloroethylene	ND	0.0042	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,4-Dioxane	ND	0.11	0.061	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Ethylbenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
2-Hexanone (MBK)	ND	0.021	0.012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Methyl Acetate	ND	0.0021	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Methylene Chloride	ND	0.021	0.0075	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Toluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15
Sample ID: 16C0347-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Trichloroethylene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
m+p Xylene	ND	0.0042	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF
o-Xylene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 23:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.0	70-130		3/10/16 23:36
Toluene-d8	95.2	70-130		3/10/16 23:36
4-Bromofluorobenzene	103	70-130		3/10/16 23:36

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15
Sample ID: 16C0347-09
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.046	mg/Kg dry	509038	1.032	1	000075-37-6	90	SW-846 8260C	3/10/16	3/10/16 23:36	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15
Sample ID: 16C0347-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0045	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 15:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	131	40-160		3/14/16 15:45

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15
Sample ID: 16C0347-09
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Acetophenone	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Bis(2-Ethylhexyl)phthalate	0.23	0.41	0.16	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Butylbenzylphthalate	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Carbazole	ND	0.21	0.053	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
4-Chloroaniline	ND	0.80	0.094	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
4-Chloro-3-methylphenol	ND	0.80	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2-Chlorophenol	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Di-n-butylphthalate	ND	0.41	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Diethylphthalate	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Dimethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2,4-Dinitrophenol	ND	0.80	0.23	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2,4-Dinitrotoluene	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2,6-Dinitrotoluene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Di-n-octylphthalate	ND	0.41	0.22	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Hexachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Hexachlorobutadiene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Hexachlorocyclopentadiene	ND	0.41	0.087	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15
Sample ID: 16C0347-09
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Isophorone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
4-Nitrophenol	ND	0.80	0.089	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
N-Nitrosodiphenylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Pentachlorophenol	ND	0.41	0.099	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2,4,5-Trichlorophenol	ND	0.41	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	3/9/16	3/12/16 23:51	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	72.5	30-130		3/12/16 23:51
Phenol-d6	75.9	30-130		3/12/16 23:51
Nitrobenzene-d5	78.5	30-130		3/12/16 23:51
2-Fluorobiphenyl	89.4	30-130		3/12/16 23:51
2,4,6-Tribromophenol	103	30-130		3/12/16 23:51
p-Terphenyl-d14	106	30-130		3/12/16 23:51

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15
Sample ID: 16C0347-09
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/12/16 23:51	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15

Sample ID: 16C0347-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.1	0.029	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Arsenic	1.2	0.28	0.22	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:43	MJH
Beryllium	0.98	0.38	0.032	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Chromium	11	7.1	0.45	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:43	MJH
Copper	10	7.1	0.073	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Iron	27000	56	25	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 11:39	MJH
Lead	8.1	2.8	0.059	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Manganese	140	7.3	0.096	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:43	MJH
Mercury	14	30	5.0	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/14/16 14:40	TGW
Nickel	7.3	7.1	0.15	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Selenium	ND	1.2	0.20	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Silver	ND	0.12	0.040	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Thallium	0.068	0.090	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Zinc	17	14	0.22	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH
Cadmium	ND	0.54	0.024	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:42	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-9 (5)
Sampled: 3/8/2016 10:15

Sample ID: 16C0347-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	170	34	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.8	0.39	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	1200	810	mg/Kg dry	5	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	81.9			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25
Sample ID: 16C0347-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.10	0.10	0.024	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Benzene	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Bromobenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Bromodichloromethane	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Bromomethane	ND	0.010	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
2-Butanone (MEK)	ND	0.042	0.018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Carbon Disulfide	ND	0.0062	0.0036	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Carbon Tetrachloride	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Chlorobenzene	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Chlorodibromomethane	ND	0.0010	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Chloroform	ND	0.0042	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Chloromethane	ND	0.010	0.00093	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Cyclohexane	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,1-Dichloroethane	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,1-Dichloroethylene	ND	0.0042	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,4-Dioxane	ND	0.10	0.060	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Ethylbenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
2-Hexanone (MBK)	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Methyl Acetate	ND	0.0021	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Methylene Chloride	ND	0.021	0.0074	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0079	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Styrene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Toluene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25
Sample ID: 16C0347-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Trichloroethylene	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00093	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
m+p Xylene	ND	0.0042	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF
o-Xylene	ND	0.0021	0.00073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.0	70-130		3/11/16 0:06
Toluene-d8	95.0	70-130		3/11/16 0:06
4-Bromofluorobenzene	102	70-130		3/11/16 0:06

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Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25
Sample ID: 16C0347-10
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.046	mg/Kg dry	521373	1.029	1	000075-37-6	91	SW-846 8260C	3/10/16	3/11/16 0:06	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25
Sample ID: 16C0347-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0062	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 16:14	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	136	40-160		3/14/16 16:14

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25
Sample ID: 16C0347-10
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.41	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
4-Bromophenylphenylether	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Butylbenzylphthalate	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
4-Chloroaniline	ND	0.78	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
4-Chloro-3-methylphenol	ND	0.78	0.087	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2-Chloronaphthalene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
4-Chlorophenylphenylether	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Dibenzofuran	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Di-n-butylphthalate	ND	0.40	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
3,3-Dichlorobenzidine	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2,4-Dichlorophenol	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2,4-Dimethylphenol	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Hexachloroethane	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25
Sample ID: 16C0347-10
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2-Nitroaniline	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
4-Nitroaniline	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Nitrobenzene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
4-Nitrophenol	ND	0.78	0.088	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 0:15	CMR
N-Nitrosodiphenylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Pentachlorophenol	ND	0.40	0.097	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Phenol	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2,4,5-Trichlorophenol	ND	0.40	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
2,4,6-Trichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR
Atrazine	ND	0.79	0.67	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:15	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	55.7	30-130		3/13/16 0:15
Phenol-d6	60.9	30-130		3/13/16 0:15
Nitrobenzene-d5	62.6	30-130		3/13/16 0:15
2-Fluorobiphenyl	64.7	30-130		3/13/16 0:15
2,4,6-Tribromophenol	71.1	30-130		3/13/16 0:15
p-Terphenyl-d14	85.1	30-130		3/13/16 0:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25
Sample ID: 16C0347-10
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/13/16 0:15	CMR

con-test® ANALYTICAL LABORATORY

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25

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Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.1	0.030	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Arsenic	0.42	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:46	MJH
Beryllium	0.16	0.39	0.033	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Chromium	4.8	7.2	0.46	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/15/16 10:46	MJH
Copper	2.3	7.2	0.074	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Iron	3000	58	25	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 12:01	MJH
Lead	3.5	2.9	0.060	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Manganese	57	7.5	0.098	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:46	MJH
Mercury	14	30	5.1	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/14/16 14:41	TGW
Nickel	7.5	7.2	0.15	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Silver	ND	0.13	0.041	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Thallium	0.043	0.092	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Zinc	8.9	14	0.23	mg/Kg dry	5	B, J	SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH
Cadmium	ND	0.55	0.025	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:45	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-9 (13.5)
Sampled: 3/8/2016 10:25

Sample ID: 16C0347-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	42	30	16	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.5	0.36	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	230	160	mg/Kg dry	1		ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	84.3			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20
Sample ID: 16C0347-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Benzene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Bromobenzene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Bromodichloromethane	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
2-Butanone (MEK)	ND	0.044	0.019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Carbon Disulfide	ND	0.0066	0.0038	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Carbon Tetrachloride	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Chlorobenzene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Chlorodibromomethane	ND	0.0011	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Chloroform	ND	0.0044	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Chloromethane	ND	0.011	0.00099	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Cyclohexane	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,1-Dichloroethane	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,1-Dichloroethylene	ND	0.0044	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00099	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,4-Dioxane	ND	0.11	0.063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Ethylbenzene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Methyl Acetate	ND	0.0022	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	0.00099	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Methylene Chloride	0.0079	0.022	0.0078	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/11/16 0:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0083	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Styrene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00099	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Toluene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20
Sample ID: 16C0347-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Trichloroethylene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00099	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
m+p Xylene	ND	0.0044	0.0019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF
o-Xylene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 0:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	87.8	70-130		3/11/16 0:34
Toluene-d8	94.9	70-130		3/11/16 0:34
4-Bromofluorobenzene	101	70-130		3/11/16 0:34

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20
Sample ID: 16C0347-11
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.047	mg/Kg dry	493650	1.029	1	000075-37-6	91	SW-846 8260C	3/10/16	3/11/16 0:34	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20
Sample ID: 16C0347-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0028	0.0020	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 16:42	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	159	40-160		3/14/16 16:42

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20
Sample ID: 16C0347-11
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.78	0.40	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Biphenyl	ND	0.78	0.50	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Acetophenone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Anthracene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Benzo(b)fluoranthene	0.063	0.20	0.056	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Bis(2-Ethylhexyl)phthalate	0.35	0.40	0.15	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Butylbenzylphthalate	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Carbazole	ND	0.20	0.051	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
4-Chloroaniline	ND	0.77	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
4-Chloro-3-methylphenol	ND	0.77	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2-Chloronaphthalene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2-Chlorophenol	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Chrysene	0.070	0.20	0.062	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Di-n-butylphthalate	ND	0.40	0.087	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Diethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Dimethylphthalate	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2,4-Dinitrophenol	ND	0.77	0.23	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2,4-Dinitrotoluene	ND	0.40	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2,6-Dinitrotoluene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Fluoranthene	0.13	0.20	0.065	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Fluorene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Hexachlorobenzene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Hexachlorobutadiene	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Hexachlorocyclopentadiene	ND	0.40	0.084	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Hexachloroethane	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20
Sample ID: 16C0347-11
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Isophorone	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2-Methylphenol	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
3-Nitroaniline	ND	0.40	0.057	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Nitrobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
4-Nitrophenol	ND	0.77	0.087	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
N-Nitrosodiphenylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Pentachlorophenol	ND	0.40	0.096	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Phenanthrene	0.12	0.20	0.10	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Pyrene	0.13	0.20	0.065	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/13/16 0:40	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2,4,5-Trichlorophenol	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR
Atrazine	ND	0.78	0.66	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 0:40	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	55.9	30-130		3/13/16 0:40
Phenol-d6	61.0	30-130		3/13/16 0:40
Nitrobenzene-d5	64.8	30-130		3/13/16 0:40
2-Fluorobiphenyl	68.2	30-130		3/13/16 0:40
2,4,6-Tribromophenol	66.1	30-130		3/13/16 0:40
p-Terphenyl-d14	79.4	30-130		3/13/16 0:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20
Sample ID: 16C0347-11
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/13/16 0:40	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20

Sample ID: 16C0347-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.13	3.1	0.030	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Arsenic	1.2	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:49	MJH
Beryllium	0.34	0.39	0.033	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Chromium	8.4	7.2	0.46	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:49	MJH
Copper	19	7.2	0.075	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Iron	11000	14	6.3	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:49	MJH
Lead	10	2.9	0.060	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Manganese	270	7.5	0.098	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:49	MJH
Mercury	63	30	5.0	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:43	TGW
Nickel	3.9	7.2	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Silver	0.063	0.13	0.041	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Thallium	0.076	0.093	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Zinc	34	14	0.23	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH
Cadmium	0.10	0.55	0.025	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:48	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-10 (5)
Sampled: 3/8/2016 11:20

Sample ID: 16C0347-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	68	29	16	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.7	0.38	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	230	150	mg/Kg dry	1		ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	85.5			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30
Sample ID: 16C0347-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Benzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Bromobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Bromodichloromethane	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Carbon Disulfide	ND	0.0065	0.0038	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Carbon Tetrachloride	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Chlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Chlorodibromomethane	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Chloroform	ND	0.0043	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Chloromethane	ND	0.011	0.00098	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Cyclohexane	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,4-Dichlorobenzene	0.0019	0.0022	0.00087	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,1-Dichloroethane	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,4-Dioxane	ND	0.11	0.062	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Ethylbenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Methyl Acetate	ND	0.0022	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Methylene Chloride	ND	0.022	0.0077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0082	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Styrene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Toluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30
Sample ID: 16C0347-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Trichloroethylene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF
o-Xylene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.3	70-130		3/11/16 1:01
Toluene-d8	93.3	70-130		3/11/16 1:01
4-Bromofluorobenzene	101	70-130		3/11/16 1:01

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30
Sample ID: 16C0347-12
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.042	mg/Kg dry	443070	1.035	1	000075-37-6	91	SW-846 8260C	3/10/16	3/11/16 1:01	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30
Sample ID: 16C0347-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.033	0.0024	0.0017	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 17:11	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	159	40-160		3/14/16 17:11

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30
Sample ID: 16C0347-12
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.84	0.43	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Benzaldehyde	ND	0.43	0.41	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Biphenyl	ND	0.84	0.53	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Caprolactam	ND	0.43	0.32	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Acenaphthylene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Acetophenone	ND	0.43	0.084	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Anthracene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Benzo(a)anthracene	ND	0.21	0.057	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Benzo(a)pyrene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Benzo(b)fluoranthene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Benzo(g,h,i)perylene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Benzo(k)fluoranthene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Bis(2-chloroethoxy)methane	ND	0.43	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Bis(2-chloroethyl)ether	ND	0.43	0.084	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Bis(2-Ethylhexyl)phthalate	0.24	0.43	0.17	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
4-Bromophenylphenylether	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Butylbenzylphthalate	ND	0.43	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Carbazole	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
4-Chloroaniline	ND	0.83	0.098	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
4-Chloro-3-methylphenol	ND	0.83	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2-Chloronaphthalene	ND	0.43	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2-Chlorophenol	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
4-Chlorophenylphenylether	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Chrysene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Dibenzofuran	ND	0.43	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Di-n-butylphthalate	ND	0.43	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
3,3-Dichlorobenzidine	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2,4-Dichlorophenol	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Diethylphthalate	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2,4-Dimethylphenol	ND	0.43	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Dimethylphthalate	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
4,6-Dinitro-2-methylphenol	ND	0.43	0.41	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2,4-Dinitrophenol	ND	0.83	0.24	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2,4-Dinitrotoluene	ND	0.43	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2,6-Dinitrotoluene	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Di-n-octylphthalate	ND	0.43	0.22	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Fluoranthene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Hexachlorobenzene	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Hexachlorobutadiene	ND	0.43	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Hexachlorocyclopentadiene	ND	0.43	0.090	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Hexachloroethane	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30
Sample ID: 16C0347-12
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Isophorone	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2-Methylphenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
3/4-Methylphenol	ND	0.43	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2-Nitroaniline	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
3-Nitroaniline	ND	0.43	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
4-Nitroaniline	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Nitrobenzene	ND	0.43	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2-Nitrophenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
4-Nitrophenol	ND	0.83	0.093	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
N-Nitrosodiphenylamine	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
N-Nitrosodi-n-propylamine	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Pentachlorophenol	ND	0.43	0.10	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Phenol	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Pyrene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2,4,5-Trichlorophenol	ND	0.43	0.097	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
2,4,6-Trichlorophenol	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR
Atrazine	ND	0.84	0.71	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:05	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	77.2	30-130		3/13/16 1:05
Phenol-d6	83.7	30-130		3/13/16 1:05
Nitrobenzene-d5	81.8	30-130		3/13/16 1:05
2-Fluorobiphenyl	88.8	30-130		3/13/16 1:05
2,4,6-Tribromophenol	94.3	30-130		3/13/16 1:05
p-Terphenyl-d14	110	30-130		3/13/16 1:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30
Sample ID: 16C0347-12
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/13/16 1:05	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30

Sample ID: 16C0347-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.4	0.032	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Arsenic	2.1	0.31	0.24	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:51	MJH
Beryllium	0.46	0.42	0.035	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Chromium	16	7.8	0.49	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:51	MJH
Copper	5.6	7.8	0.080	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Iron	41000	62	27	mg/Kg dry	20		SW-846 6020A/B	3/12/16	3/15/16 11:52	MJH
Lead	11	3.1	0.065	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Manganese	46	8.1	0.11	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:51	MJH
Mercury	45	32	5.3	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:44	TGW
Nickel	4.0	7.8	0.16	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Selenium	0.50	1.3	0.22	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Silver	0.044	0.14	0.044	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Thallium	0.12	0.10	0.028	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Zinc	16	16	0.24	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH
Cadmium	ND	0.59	0.027	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:51	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-10 (10)
Sampled: 3/8/2016 11:30

Sample ID: 16C0347-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	130	36	19	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.8	0.40	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	2500	1700	mg/Kg dry	10	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	79.1			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35
Sample ID: 16C0347-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.096	0.022	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Benzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Bromobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Bromochloromethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Bromodichloromethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Bromoform	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Bromomethane	ND	0.0096	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
2-Butanone (MEK)	ND	0.038	0.017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Carbon Disulfide	ND	0.0057	0.0033	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Carbon Tetrachloride	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Chlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Chlorodibromomethane	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Chloroethane	ND	0.019	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Chloroform	ND	0.0038	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Chloromethane	ND	0.0096	0.00086	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Cyclohexane	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,2-Dibromoethane (EDB)	ND	0.00096	0.00096	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,1-Dichloroethane	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,2-Dichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,1-Dichloroethylene	ND	0.0038	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,2-Dichloropropane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
cis-1,3-Dichloropropene	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
trans-1,3-Dichloropropene	ND	0.00096	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,4-Dioxane	ND	0.096	0.055	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
2-Hexanone (MBK)	ND	0.019	0.010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Methyl Acetate	ND	0.0019	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Methylene Chloride	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0073	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Styrene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.00096	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Tetrachloroethylene	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35
Sample ID: 16C0347-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,1,2-Trichloroethane	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Trichloroethylene	ND	0.0019	0.00096	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0096	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
Vinyl Chloride	ND	0.0096	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
m+p Xylene	ND	0.0038	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF
o-Xylene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.2	70-130		3/11/16 1:28
Toluene-d8	93.0	70-130		3/11/16 1:28
4-Bromofluorobenzene	100	70-130		3/11/16 1:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35
Sample ID: 16C0347-13
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.029	mg/Kg dry	345134	1.029	1	000075-37-6	91	SW-846 8260C	3/10/16	3/11/16 1:28	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35
Sample ID: 16C0347-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0020	0.0020	0.0014	mg/Kg dry	1	J	SW-846 8260C	3/14/16	3/14/16 17:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	124	40-160		3/14/16 17:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35
Sample ID: 16C0347-13
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.42	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Acetophenone	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Butylbenzylphthalate	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Carbazole	ND	0.21	0.053	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
4-Chloroaniline	ND	0.80	0.094	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
4-Chloro-3-methylphenol	ND	0.80	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2-Chlorophenol	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Di-n-butylphthalate	ND	0.41	0.090	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Diethylphthalate	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Dimethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2,4-Dinitrophenol	ND	0.80	0.23	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2,4-Dinitrotoluene	ND	0.41	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2,6-Dinitrotoluene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Di-n-octylphthalate	ND	0.41	0.22	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Hexachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Hexachlorobutadiene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Hexachlorocyclopentadiene	ND	0.41	0.087	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35
Sample ID: 16C0347-13
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Isophorone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
4-Nitrophenol	ND	0.80	0.090	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 1:30	CMR
N-Nitrosodiphenylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Pentachlorophenol	ND	0.41	0.099	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2,4,5-Trichlorophenol	ND	0.41	0.093	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:30	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	78.6	30-130		3/13/16 1:30
Phenol-d6	83.9	30-130		3/13/16 1:30
Nitrobenzene-d5	85.0	30-130		3/13/16 1:30
2-Fluorobiphenyl	85.4	30-130		3/13/16 1:30
2,4,6-Tribromophenol	86.5	30-130		3/13/16 1:30
p-Terphenyl-d14	104	30-130		3/13/16 1:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35
Sample ID: 16C0347-13
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/13/16 1:30	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35

Sample ID: 16C0347-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.2	0.030	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Arsenic	0.38	0.30	0.23	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:54	MJH
Beryllium	0.33	0.40	0.033	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Chromium	4.6	7.4	0.47	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/15/16 10:54	MJH
Copper	2.3	7.4	0.076	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Iron	2400	15	6.5	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:54	MJH
Lead	3.6	3.0	0.062	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Manganese	16	7.7	0.10	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:54	MJH
Mercury	ND	31	5.2	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:46	TGW
Nickel	2.2	7.4	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Silver	ND	0.13	0.042	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Thallium	0.030	0.095	0.027	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Zinc	5.9	15	0.23	mg/Kg dry	5	B, J	SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH
Cadmium	ND	0.56	0.026	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:53	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-10 (12.5)
Sampled: 3/8/2016 11:35

Sample ID: 16C0347-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	200	34	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.9	0.41	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	480	330	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	81.8			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17
Sample ID: 16C0347-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.095	0.022	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Benzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Bromobenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Bromochloromethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Bromodichloromethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Bromoform	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Bromomethane	ND	0.0095	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
2-Butanone (MEK)	ND	0.038	0.017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Carbon Disulfide	ND	0.0057	0.0033	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Carbon Tetrachloride	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Chlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Chlorodibromomethane	ND	0.00095	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Chloroethane	ND	0.019	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Chloroform	ND	0.0038	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Chloromethane	ND	0.0095	0.00086	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Cyclohexane	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,1-Dichloroethane	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,2-Dichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,1-Dichloroethylene	ND	0.0038	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,2-Dichloropropane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
cis-1,3-Dichloropropene	ND	0.00095	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
trans-1,3-Dichloropropene	ND	0.00095	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,4-Dioxane	ND	0.095	0.055	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Ethylbenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
2-Hexanone (MBK)	ND	0.019	0.010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Methyl Acetate	ND	0.0019	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Methylene Chloride	ND	0.019	0.0068	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Styrene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.00095	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Tetrachloroethylene	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Toluene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17
Sample ID: 16C0347-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0019	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,1,2-Trichloroethane	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Trichloroethylene	ND	0.0019	0.00095	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0095	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
Vinyl Chloride	ND	0.0095	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
m+p Xylene	ND	0.0038	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF
o-Xylene	ND	0.0019	0.00067	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 1:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.1	70-130		3/11/16 1:55
Toluene-d8	94.6	70-130		3/11/16 1:55
4-Bromofluorobenzene	101	70-130		3/11/16 1:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17
Sample ID: 16C0347-14
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/10/16	3/11/16 1:55	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17
Sample ID: 16C0347-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 18:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	124	40-160		3/14/16 18:08

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17
Sample ID: 16C0347-14
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.82	0.42	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Benzaldehyde	ND	0.42	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Biphenyl	ND	0.82	0.52	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Caprolactam	ND	0.42	0.31	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Acetophenone	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Bis(2-Ethylhexyl)phthalate	2.2	0.42	0.16	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
4-Bromophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Butylbenzylphthalate	ND	0.42	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Carbazole	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
4-Chloroaniline	ND	0.81	0.095	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
4-Chloro-3-methylphenol	ND	0.81	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2-Chloronaphthalene	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2-Chlorophenol	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
4-Chlorophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Dibenzofuran	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Di-n-butylphthalate	3.9	0.42	0.090	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2,4-Dichlorophenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Diethylphthalate	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2,4-Dimethylphenol	ND	0.42	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Dimethylphthalate	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.39	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2,4-Dinitrophenol	ND	0.81	0.24	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2,4-Dinitrotoluene	ND	0.42	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2,6-Dinitrotoluene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Hexachlorobenzene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Hexachlorobutadiene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Hexachlorocyclopentadiene	ND	0.42	0.088	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Hexachloroethane	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17
Sample ID: 16C0347-14
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Isophorone	ND	0.42	0.081	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2-Methylphenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
3-Nitroaniline	ND	0.42	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
4-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Nitrobenzene	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
4-Nitrophenol	ND	0.81	0.090	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
N-Nitrosodiphenylamine	ND	0.42	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Pentachlorophenol	ND	0.42	0.10	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Phenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2,4,5-Trichlorophenol	ND	0.42	0.094	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
2,4,6-Trichlorophenol	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Atrazine	ND	0.82	0.69	mg/Kg dry	1		SW-846 8270D	3/9/16	3/13/16 1:56	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	73.1	30-130		3/13/16 1:56
Phenol-d6	77.4	30-130		3/13/16 1:56
Nitrobenzene-d5	80.7	30-130		3/13/16 1:56
2-Fluorobiphenyl	80.8	30-130		3/13/16 1:56
2,4,6-Tribromophenol	82.4	30-130		3/13/16 1:56
p-Terphenyl-d14	95.3	30-130		3/13/16 1:56

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17
Sample ID: 16C0347-14
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
10,18-Bisnorabieta-5,7,9(10...	2.1	mg/Kg dry	1567940	6.231	1	006566-19-4	99	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Benzenesulfonamide, 2-methyl-	1.1	mg/Kg dry	846617	4.938	1	000088-19-7	94	SW-846 8270D	3/9/16	3/13/16 1:56	CMR
Phenanthrene, 1-methyl-7-(1...	7.3	mg/Kg dry	3956140	6.576	1	000483-65-8	99	SW-846 8270D	3/9/16	3/13/16 1:56	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17

Sample ID: 16C0347-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.46	3.1	0.029	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Arsenic	2.0	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:57	MJH
Beryllium	0.32	0.39	0.032	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Chromium	16	7.2	0.45	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:57	MJH
Copper	17	7.2	0.074	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Iron	21000	14	6.3	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:57	MJH
Lead	190	2.9	0.060	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Manganese	360	7.4	0.097	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 10:57	MJH
Mercury	36	29	4.9	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:47	TGW
Nickel	5.4	7.2	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Selenium	0.22	1.2	0.21	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Silver	0.15	0.13	0.041	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Thallium	0.13	0.092	0.026	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Zinc	52	14	0.22	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH
Cadmium	0.048	0.54	0.025	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:56	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (8)
Sampled: 3/8/2016 13:17

Sample ID: 16C0347-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	180	30	16	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.6	0.37	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	470	310	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	81.9			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25
Sample ID: 16C0347-15
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Benzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Bromobenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Bromodichloromethane	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Carbon Disulfide	ND	0.0065	0.0038	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Carbon Tetrachloride	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Chlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Chlorodibromomethane	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Chloroform	ND	0.0043	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Chloromethane	ND	0.011	0.00097	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Cyclohexane	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,1-Dichloroethane	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00097	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,4-Dioxane	ND	0.11	0.062	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Ethylbenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Methyl Acetate	ND	0.0022	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00097	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Methylene Chloride	0.0097	0.022	0.0077	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/11/16 2:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0082	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Styrene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00097	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Toluene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00086	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25
Sample ID: 16C0347-15
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Trichloroethylene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00097	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF
o-Xylene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.2	70-130		3/11/16 2:22
Toluene-d8	93.5	70-130		3/11/16 2:22
4-Bromofluorobenzene	99.0	70-130		3/11/16 2:22

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25
Sample ID: 16C0347-15
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.033	mg/Kg dry	330053	1.032	1	000075-37-6	91	SW-846 8260C	3/10/16	3/11/16 2:22	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25

Sample ID: 16C0347-15

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 18:37	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	155	40-160		3/14/16 18:37

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25
Sample ID: 16C0347-15
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.76	0.39	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Benzaldehyde	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Biphenyl	ND	0.76	0.49	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Caprolactam	ND	0.39	0.29	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Acenaphthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Acenaphthylene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Acetophenone	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Anthracene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Benzo(a)pyrene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Benzo(b)fluoranthene	ND	0.19	0.055	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Benzo(g,h,i)perylene	ND	0.19	0.086	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Benzo(k)fluoranthene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Bis(2-chloroethoxy)methane	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Bis(2-chloroethyl)ether	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Bis(2-Ethylhexyl)phthalate	0.19	0.39	0.15	mg/Kg dry	1	J	SW-846 8270D	3/9/16	3/14/16 18:53	CMR
4-Bromophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Butylbenzylphthalate	ND	0.39	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Carbazole	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
4-Chloroaniline	ND	0.75	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
4-Chloro-3-methylphenol	ND	0.75	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2-Chloronaphthalene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2-Chlorophenol	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
4-Chlorophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Chrysene	ND	0.19	0.061	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Dibenzofuran	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Di-n-butylphthalate	ND	0.39	0.084	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
3,3-Dichlorobenzidine	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2,4-Dichlorophenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Diethylphthalate	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2,4-Dimethylphenol	ND	0.39	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Dimethylphthalate	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2,4-Dinitrophenol	ND	0.75	0.22	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2,4-Dinitrotoluene	ND	0.39	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2,6-Dinitrotoluene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Di-n-octylphthalate	ND	0.39	0.20	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Fluoranthene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Fluorene	ND	0.19	0.063	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Hexachlorobenzene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Hexachlorobutadiene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Hexachlorocyclopentadiene	ND	0.39	0.082	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Hexachloroethane	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25
Sample ID: 16C0347-15
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Isophorone	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2-Methylphenol	ND	0.39	0.097	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
3/4-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Naphthalene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
3-Nitroaniline	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
4-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Nitrobenzene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2-Nitrophenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
4-Nitrophenol	ND	0.75	0.084	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/14/16 18:53	CMR
N-Nitrosodiphenylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
N-Nitrosodi-n-propylamine	ND	0.39	0.080	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Pentachlorophenol	ND	0.39	0.094	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Phenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Pyrene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.070	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2,4,5-Trichlorophenol	ND	0.39	0.088	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
2,4,6-Trichlorophenol	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR
Atrazine	ND	0.76	0.65	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 18:53	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	65.9	30-130		3/14/16 18:53
Phenol-d6	70.4	30-130		3/14/16 18:53
Nitrobenzene-d5	73.7	30-130		3/14/16 18:53
2-Fluorobiphenyl	73.6	30-130		3/14/16 18:53
2,4,6-Tribromophenol	74.0	30-130		3/14/16 18:53
p-Terphenyl-d14	87.3	30-130		3/14/16 18:53

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25
Sample ID: 16C0347-15
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/14/16 18:53	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25

Sample ID: 16C0347-15

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.029	2.9	0.028	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Arsenic	0.82	0.27	0.21	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 11:14	MJH
Beryllium	0.44	0.37	0.031	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Chromium	6.5	6.8	0.43	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/15/16 11:14	MJH
Copper	6.0	6.8	0.070	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Iron	8700	14	6.0	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 11:14	MJH
Lead	5.3	2.7	0.057	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Manganese	60	7.1	0.092	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 11:14	MJH
Mercury	5.3	27	4.6	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/14/16 14:53	TGW
Nickel	3.5	6.8	0.14	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Selenium	ND	1.1	0.20	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Silver	ND	0.12	0.039	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Thallium	0.062	0.087	0.025	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Zinc	16	14	0.21	mg/Kg dry	5	B	SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH
Cadmium	ND	0.52	0.023	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 15:59	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (10)
Sampled: 3/8/2016 13:25

Sample ID: 16C0347-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	140	34	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.8	0.39	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	220	150	mg/Kg dry	1		ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	87.3			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (12.5)
Sampled: 3/8/2016 13:30
Sample ID: 16C0347-16
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Bromobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Carbon Disulfide	ND	0.0061	0.0035	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Chloroform	ND	0.0040	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Chloromethane	ND	0.010	0.00091	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Cyclohexane	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Ethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Methylene Chloride	0.0075	0.020	0.0072	mg/Kg dry	1	J	SW-846 8260B	3/10/16	3/11/16 2:50	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0077	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (12.5)
Sampled: 3/8/2016 13:30
Sample ID: 16C0347-16
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00091	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/10/16	3/11/16 2:50	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.9	70-130		3/11/16 2:50
Toluene-d8	94.3	70-130		3/11/16 2:50
4-Bromofluorobenzene	101	70-130		3/11/16 2:50

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Project Location: Raleigh, NC
Sample Description:
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Sampled: 3/8/2016 13:30
Sample ID: 16C0347-16
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethane, 1,1-difluoro-	0.029	mg/Kg dry	304849	1.026	1	000075-37-6	91	SW-846 8260C	3/10/16	3/11/16 2:50	MFF

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Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (12.5)
Sampled: 3/8/2016 13:30

Sample ID: 16C0347-16

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0023	0.0017	mg/Kg dry	1		SW-846 8260C	3/14/16	3/14/16 19:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	157	40-160		3/14/16 19:05

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (12.5)
Sampled: 3/8/2016 13:30
Sample ID: 16C0347-16
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.76	0.39	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Benzaldehyde	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Biphenyl	ND	0.76	0.48	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Caprolactam	ND	0.39	0.29	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Acenaphthene	ND	0.19	0.058	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Acenaphthylene	ND	0.19	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Acetophenone	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Anthracene	ND	0.19	0.056	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Benzo(a)anthracene	ND	0.19	0.051	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Benzo(a)pyrene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Benzo(b)fluoranthene	ND	0.19	0.054	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Benzo(g,h,i)perylene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Benzo(k)fluoranthene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Bis(2-chloroethoxy)methane	ND	0.39	0.074	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Bis(2-chloroethyl)ether	ND	0.39	0.076	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
4-Bromophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Butylbenzylphthalate	ND	0.39	0.092	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Carbazole	ND	0.19	0.050	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
4-Chloroaniline	ND	0.75	0.089	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
4-Chloro-3-methylphenol	ND	0.75	0.083	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2-Chloronaphthalene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2-Chlorophenol	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
4-Chlorophenylphenylether	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Chrysene	ND	0.19	0.060	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Dibenz(a,h)anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Dibenzofuran	ND	0.39	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Di-n-butylphthalate	ND	0.39	0.084	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
3,3-Dichlorobenzidine	ND	0.19	0.059	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2,4-Dichlorophenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Diethylphthalate	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2,4-Dimethylphenol	ND	0.39	0.072	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Dimethylphthalate	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	0.37	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2,4-Dinitrophenol	ND	0.75	0.22	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2,4-Dinitrotoluene	ND	0.39	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2,6-Dinitrotoluene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Di-n-octylphthalate	ND	0.39	0.20	mg/Kg dry	1	R-05	SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Fluoranthene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Fluorene	ND	0.19	0.062	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Hexachlorobenzene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Hexachlorobutadiene	ND	0.39	0.068	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Hexachlorocyclopentadiene	ND	0.39	0.082	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Hexachloroethane	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: SB-11 (12.5)
Sampled: 3/8/2016 13:30
Sample ID: 16C0347-16
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Isophorone	ND	0.39	0.075	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2-Methylnaphthalene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2-Methylphenol	ND	0.39	0.096	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
3/4-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Naphthalene	ND	0.19	0.099	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
3-Nitroaniline	ND	0.39	0.056	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
4-Nitroaniline	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Nitrobenzene	ND	0.39	0.073	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2-Nitrophenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
4-Nitrophenol	ND	0.75	0.084	mg/Kg dry	1	V-20	SW-846 8270D	3/9/16	3/14/16 19:17	CMR
N-Nitrosodiphenylamine	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
N-Nitrosodi-n-propylamine	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Pentachlorophenol	ND	0.39	0.093	mg/Kg dry	1	V-05	SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Phenol	ND	0.39	0.066	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Pyrene	ND	0.19	0.064	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.39	0.069	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2,4,5-Trichlorophenol	ND	0.39	0.087	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
2,4,6-Trichlorophenol	ND	0.39	0.065	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR
Atrazine	ND	0.76	0.64	mg/Kg dry	1		SW-846 8270D	3/9/16	3/14/16 19:17	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	67.6	30-130		3/14/16 19:17
Phenol-d6	70.9	30-130		3/14/16 19:17
Nitrobenzene-d5	74.1	30-130		3/14/16 19:17
2-Fluorobiphenyl	74.0	30-130		3/14/16 19:17
2,4,6-Tribromophenol	78.5	30-130		3/14/16 19:17
p-Terphenyl-d14	82.0	30-130		3/14/16 19:17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (12.5)
Sampled: 3/8/2016 13:30

Sample ID: 16C0347-16

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/9/16	3/14/16 19:17	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (12.5)
Sampled: 3/8/2016 13:30

Sample ID: 16C0347-16

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	0.027	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Arsenic	0.59	0.27	0.20	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 11:17	MJH
Beryllium	0.30	0.36	0.030	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Chromium	5.4	6.7	0.42	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/15/16 11:17	MJH
Copper	4.6	6.7	0.069	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Iron	6100	13	5.9	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 11:17	MJH
Lead	4.5	2.7	0.056	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Manganese	90	7.0	0.091	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/15/16 11:17	MJH
Mercury	ND	27	4.6	µg/kg dry	1		SW-846 7471B	3/9/16	3/14/16 14:54	TGW
Nickel	2.9	6.7	0.14	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Selenium	ND	1.1	0.19	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Silver	ND	0.12	0.038	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Thallium	0.040	0.086	0.024	mg/Kg dry	5	J	SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Zinc	13	13	0.21	mg/Kg dry	5	B, J	SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH
Cadmium	ND	0.51	0.023	mg/Kg dry	5		SW-846 6020A/B	3/12/16	3/14/16 16:02	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: SB-11 (12.5)
Sampled: 3/8/2016 13:30

Sample ID: 16C0347-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	70	30	16	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/10/16	3/11/16 14:40	VAK
Nitrate as N	ND	2.7	0.38	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	450	300	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/14/16	3/14/16 10:30	MMH
% Solids	87.8			% Wt	1		SM 2540G	3/9/16	3/10/16 8:16	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347
Date Received: 3/8/2016
Field Sample #: Trip Blank-3
Sampled: 3/8/2016 00:00
Sample ID: 16C0347-17
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Carbon Disulfide	ND	0.0060	0.0035	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1	L-04	SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1	R-05	SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Methylene Chloride	0.011	0.020	0.0071	mg/Kg wet	1	J	SW-846 8260B	3/11/16	3/11/16 9:47	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0347

Date Received: 3/8/2016

Field Sample #: Trip Blank-3
Sampled: 3/8/2016 00:00

Sample ID: 16C0347-17

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/11/16	3/11/16 9:47	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	89.3	70-130		3/11/16 9:47
Toluene-d8	93.0	70-130		3/11/16 9:47
4-Bromofluorobenzene	96.5	70-130		3/11/16 9:47

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

ASTM D516-07 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-01 [SB-7 (3.5)]	B144082	1.01	100	03/14/16
16C0347-02 [SB-7 (12.5)]	B144082	1.03	100	03/14/16
16C0347-03 [SB-7 (5-10)]	B144082	1.04	100	03/14/16
16C0347-04 [SB-8 (3.5)]	B144082	1.03	100	03/14/16
16C0347-05 [SB-8 (10)]	B144082	1.14	100	03/14/16
16C0347-06 [SB-8 (13)]	B144082	1.01	100	03/14/16
16C0347-07 [SB-8 (5-10)]	B144082	1.03	100	03/14/16
16C0347-08 [SB-9 (4)]	B144082	1.04	100	03/14/16
16C0347-09 [SB-9 (5)]	B144082	1.02	100	03/14/16
16C0347-10 [SB-9 (13.5)]	B144082	1.03	100	03/14/16
16C0347-11 [SB-10 (5)]	B144082	1.02	100	03/14/16
16C0347-12 [SB-10 (10)]	B144082	1.02	100	03/14/16
16C0347-13 [SB-10 (12.5)]	B144082	1.01	100	03/14/16
16C0347-14 [SB-11 (8)]	B144082	1.05	100	03/14/16
16C0347-15 [SB-11 (10)]	B144082	1.02	100	03/14/16
16C0347-16 [SB-11 (12.5)]	B144082	1.02	100	03/14/16

SM 21-22 4500 NO3 F Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-01 [SB-7 (3.5)]	B143918	1.11	50.0	03/10/16
16C0347-02 [SB-7 (12.5)]	B143918	1.14	50.0	03/10/16
16C0347-03 [SB-7 (5-10)]	B143918	1.22	50.0	03/10/16
16C0347-04 [SB-8 (3.5)]	B143918	1.08	50.0	03/10/16
16C0347-05 [SB-8 (10)]	B143918	1.07	50.0	03/10/16
16C0347-06 [SB-8 (13)]	B143918	1.12	50.0	03/10/16
16C0347-07 [SB-8 (5-10)]	B143918	1.01	50.0	03/10/16
16C0347-08 [SB-9 (4)]	B143918	1.01	50.0	03/10/16
16C0347-09 [SB-9 (5)]	B143918	1.10	50.0	03/10/16
16C0347-10 [SB-9 (13.5)]	B143918	1.16	50.0	03/10/16
16C0347-11 [SB-10 (5)]	B143918	1.08	50.0	03/10/16
16C0347-12 [SB-10 (10)]	B143918	1.12	50.0	03/10/16
16C0347-13 [SB-10 (12.5)]	B143918	1.04	50.0	03/10/16
16C0347-14 [SB-11 (8)]	B143918	1.16	50.0	03/10/16
16C0347-15 [SB-11 (10)]	B143918	1.02	50.0	03/10/16
16C0347-16 [SB-11 (12.5)]	B143918	1.05	50.0	03/10/16

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16C0347-01 [SB-7 (3.5)]	B143892	03/09/16
16C0347-02 [SB-7 (12.5)]	B143892	03/09/16
16C0347-03 [SB-7 (5-10)]	B143892	03/09/16
16C0347-04 [SB-8 (3.5)]	B143892	03/09/16
16C0347-05 [SB-8 (10)]	B143892	03/09/16
16C0347-06 [SB-8 (13)]	B143892	03/09/16
16C0347-07 [SB-8 (5-10)]	B143892	03/09/16
16C0347-08 [SB-9 (4)]	B143892	03/09/16
16C0347-09 [SB-9 (5)]	B143892	03/09/16
16C0347-10 [SB-9 (13.5)]	B143892	03/09/16
16C0347-11 [SB-10 (5)]	B143892	03/09/16
16C0347-12 [SB-10 (10)]	B143892	03/09/16
16C0347-13 [SB-10 (12.5)]	B143892	03/09/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16C0347-14 [SB-11 (8)]	B143892	03/09/16
16C0347-15 [SB-11 (10)]	B143892	03/09/16
16C0347-16 [SB-11 (12.5)]	B143892	03/09/16

SM21-22 4500 NH3 C Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-01 [SB-7 (3.5)]	B143917	1.21	100	03/10/16
16C0347-02 [SB-7 (12.5)]	B143917	1.13	100	03/10/16
16C0347-03 [SB-7 (5-10)]	B143917	1.10	100	03/10/16
16C0347-04 [SB-8 (3.5)]	B143917	1.08	100	03/10/16
16C0347-05 [SB-8 (10)]	B143917	1.04	100	03/10/16
16C0347-06 [SB-8 (13)]	B143917	1.21	100	03/10/16
16C0347-07 [SB-8 (5-10)]	B143917	1.04	100	03/10/16
16C0347-08 [SB-9 (4)]	B143917	1.01	100	03/10/16
16C0347-09 [SB-9 (5)]	B143917	1.08	100	03/10/16
16C0347-10 [SB-9 (13.5)]	B143917	1.19	100	03/10/16
16C0347-11 [SB-10 (5)]	B143917	1.20	100	03/10/16
16C0347-12 [SB-10 (10)]	B143917	1.05	100	03/10/16
16C0347-13 [SB-10 (12.5)]	B143917	1.09	100	03/10/16
16C0347-14 [SB-11 (8)]	B143917	1.23	100	03/10/16
16C0347-15 [SB-11 (10)]	B143917	1.02	100	03/10/16
16C0347-16 [SB-11 (12.5)]	B143917	1.14	100	03/10/16

Prep Method: SW-846 3050B-SW-846 6020A/B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-01 [SB-7 (3.5)]	B144121	1.01	50.0	03/12/16
16C0347-02 [SB-7 (12.5)]	B144121	1.02	50.0	03/12/16
16C0347-03 [SB-7 (5-10)]	B144121	1.07	50.0	03/12/16
16C0347-04 [SB-8 (3.5)]	B144121	1.01	50.0	03/12/16
16C0347-05 [SB-8 (10)]	B144121	1.09	50.0	03/12/16
16C0347-06 [SB-8 (13)]	B144121	1.04	50.0	03/12/16
16C0347-07 [SB-8 (5-10)]	B144121	1.03	50.0	03/12/16
16C0347-08 [SB-9 (4)]	B144121	1.04	50.0	03/12/16
16C0347-09 [SB-9 (5)]	B144121	1.08	50.0	03/12/16
16C0347-10 [SB-9 (13.5)]	B144121	1.03	50.0	03/12/16
16C0347-11 [SB-10 (5)]	B144121	1.01	50.0	03/12/16
16C0347-12 [SB-10 (10)]	B144121	1.01	50.0	03/12/16
16C0347-13 [SB-10 (12.5)]	B144121	1.03	50.0	03/12/16
16C0347-14 [SB-11 (8)]	B144121	1.07	50.0	03/12/16
16C0347-15 [SB-11 (10)]	B144121	1.05	50.0	03/12/16
16C0347-16 [SB-11 (12.5)]	B144121	1.06	50.0	03/12/16

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-01 [SB-7 (3.5)]	B143840	0.606	50.0	03/09/16
16C0347-02 [SB-7 (12.5)]	B143840	0.600	50.0	03/09/16
16C0347-03 [SB-7 (5-10)]	B143840	0.610	50.0	03/09/16
16C0347-04 [SB-8 (3.5)]	B143840	0.624	50.0	03/09/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-05 [SB-8 (10)]	B143840	0.616	50.0	03/09/16
16C0347-06 [SB-8 (13)]	B143840	0.618	50.0	03/09/16
16C0347-07 [SB-8 (5-10)]	B143840	0.598	50.0	03/09/16
16C0347-08 [SB-9 (4)]	B143840	0.615	50.0	03/09/16
16C0347-09 [SB-9 (5)]	B143840	0.612	50.0	03/09/16
16C0347-10 [SB-9 (13.5)]	B143840	0.588	50.0	03/09/16
16C0347-11 [SB-10 (5)]	B143840	0.592	50.0	03/09/16
16C0347-12 [SB-10 (10)]	B143840	0.601	50.0	03/09/16
16C0347-13 [SB-10 (12.5)]	B143840	0.594	50.0	03/09/16
16C0347-14 [SB-11 (8)]	B143840	0.629	50.0	03/09/16
16C0347-15 [SB-11 (10)]	B143840	0.626	50.0	03/09/16
16C0347-16 [SB-11 (12.5)]	B143840	0.622	50.0	03/09/16

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-01 [SB-7 (3.5)]	B143969	6.20	10.0	03/10/16
16C0347-02 [SB-7 (12.5)]	B143969	5.45	10.0	03/10/16
16C0347-03 [SB-7 (5-10)]	B143969	5.80	10.0	03/10/16
16C0347-04 [SB-8 (3.5)]	B143969	4.93	10.0	03/10/16
16C0347-05 [SB-8 (10)]	B143969	5.80	10.0	03/10/16
16C0347-06 [SB-8 (13)]	B143969	6.50	10.0	03/10/16
16C0347-07 [SB-8 (5-10)]	B143969	5.12	10.0	03/10/16
16C0347-08 [SB-9 (4)]	B143969	5.61	10.0	03/10/16

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-09 [SB-9 (5)]	B143973	5.76	10.0	03/10/16
16C0347-10 [SB-9 (13.5)]	B143973	5.71	10.0	03/10/16
16C0347-11 [SB-10 (5)]	B143973	5.33	10.0	03/10/16
16C0347-12 [SB-10 (10)]	B143973	5.83	10.0	03/10/16
16C0347-13 [SB-10 (12.5)]	B143973	6.39	10.0	03/10/16
16C0347-14 [SB-11 (8)]	B143973	6.42	10.0	03/10/16
16C0347-15 [SB-11 (10)]	B143973	5.30	10.0	03/10/16
16C0347-16 [SB-11 (12.5)]	B143973	5.63	10.0	03/10/16

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
16C0347-05 [SB-8 (10)]	B144021	5.19	5.69	0.05	50	03/11/16
16C0347-06 [SB-8 (13)]	B144021	6.19	5.97	0.05	50	03/11/16

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-17 [Trip Blank-3]	B144053	5.00	10.0	03/11/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-02 [SB-7 (12.5)]	B144215	5.51	5.00	03/14/16
16C0347-03 [SB-7 (5-10)]	B144215	6.21	5.00	03/14/16
16C0347-04 [SB-8 (3.5)]	B144215	5.24	5.00	03/14/16
16C0347-05 [SB-8 (10)]	B144215	5.89	5.00	03/14/16
16C0347-06 [SB-8 (13)]	B144215	5.70	5.00	03/14/16
16C0347-07 [SB-8 (5-10)]	B144215	5.05	5.00	03/14/16
16C0347-08 [SB-9 (4)]	B144215	7.32	5.00	03/14/16
16C0347-09 [SB-9 (5)]	B144215	6.03	5.00	03/14/16
16C0347-10 [SB-9 (13.5)]	B144215	5.65	5.00	03/14/16
16C0347-11 [SB-10 (5)]	B144215	4.19	5.00	03/14/16
16C0347-12 [SB-10 (10)]	B144215	5.23	5.00	03/14/16
16C0347-13 [SB-10 (12.5)]	B144215	6.09	5.00	03/14/16
16C0347-14 [SB-11 (8)]	B144215	4.73	5.00	03/14/16
16C0347-15 [SB-11 (10)]	B144215	5.49	5.00	03/14/16
16C0347-16 [SB-11 (12.5)]	B144215	4.87	5.00	03/14/16

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-01 [SB-7 (3.5)]	B144274	6.82	5.00	03/15/16

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0347-01 [SB-7 (3.5)]	B143887	30.1	1.00	03/09/16
16C0347-02 [SB-7 (12.5)]	B143887	30.2	1.00	03/09/16
16C0347-03 [SB-7 (5-10)]	B143887	30.3	1.00	03/09/16
16C0347-04 [SB-8 (3.5)]	B143887	30.2	1.00	03/09/16
16C0347-05 [SB-8 (10)]	B143887	30.1	1.00	03/09/16
16C0347-06 [SB-8 (13)]	B143887	30.2	1.00	03/09/16
16C0347-07 [SB-8 (5-10)]	B143887	30.2	1.00	03/09/16
16C0347-07RE1 [SB-8 (5-10)]	B143887	30.2	1.00	03/09/16
16C0347-08 [SB-9 (4)]	B143887	30.1	1.00	03/09/16
16C0347-09 [SB-9 (5)]	B143887	30.3	1.00	03/09/16
16C0347-10 [SB-9 (13.5)]	B143887	30.0	1.00	03/09/16
16C0347-11 [SB-10 (5)]	B143887	30.0	1.00	03/09/16
16C0347-12 [SB-10 (10)]	B143887	30.2	1.00	03/09/16
16C0347-13 [SB-10 (12.5)]	B143887	30.3	1.00	03/09/16
16C0347-14 [SB-11 (8)]	B143887	30.0	1.00	03/09/16
16C0347-15 [SB-11 (10)]	B143887	30.1	1.00	03/09/16
16C0347-16 [SB-11 (12.5)]	B143887	30.1	1.00	03/09/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143969 - SW-846 5035										
Blank (B143969-BLK1)				Prepared & Analyzed: 03/10/16						
Acetone	ND	0.10	mg/Kg wet							R-05
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							R-05
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143969 - SW-846 5035												
Blank (B143969-BLK1)				Prepared & Analyzed: 03/10/16								
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0452*		mg/Kg wet	0.0500		90.3		70-130				
Surrogate: Toluene-d8	*0.0468*		mg/Kg wet	0.0500		93.5		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0507*		mg/Kg wet	0.0500		101		70-130				
LCS (B143969-BS1)				Prepared & Analyzed: 03/10/16								
Acetone	0.314	0.10	mg/Kg wet	0.200		157		70-160			R-05	†
Benzene	0.0187	0.0020	mg/Kg wet	0.0200		93.3		70-130				
Bromobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
Bromochloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6		70-130				
Bromodichloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
Bromoform	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130				
Bromomethane	0.00990	0.010	mg/Kg wet	0.0200		49.5		40-130			J	†
2-Butanone (MEK)	0.239	0.040	mg/Kg wet	0.200		120		70-160			R-05	†
Carbon Disulfide	0.0163	0.0060	mg/Kg wet	0.0200		81.4		70-130				
Carbon Tetrachloride	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
Chlorobenzene	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130				
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108		70-130				
Chloroethane	0.0171	0.020	mg/Kg wet	0.0200		85.7		70-130			J	
Chloroform	0.0195	0.0040	mg/Kg wet	0.0200		97.3		70-130				
Chloromethane	0.0132	0.010	mg/Kg wet	0.0200		**66.0**	*	70-130			L-04	
Cyclohexane	0.0165	0.0020	mg/Kg wet	0.0200		82.3		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0176	0.0020	mg/Kg wet	0.0200		88.1		70-130				
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108		70-130				
1,2-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Dichlorodifluoromethane (Freon 12)	0.0138	0.020	mg/Kg wet	0.0200		68.8		40-160			J	†
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5		70-130				
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
1,1-Dichloroethylene	0.0163	0.0040	mg/Kg wet	0.0200		81.6		70-130				
cis-1,2-Dichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.4		70-130				
trans-1,2-Dichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.5		70-130				
1,2-Dichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		99.2		70-130				
cis-1,3-Dichloropropene	0.0187	0.0010	mg/Kg wet	0.0200		93.7		70-130				
trans-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.0		70-130				
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		98.1		40-160				†
Ethylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		115		70-130				
2-Hexanone (MBK)	0.232	0.020	mg/Kg wet	0.200		116		70-160				†
Isopropylbenzene (Cumene)	0.0238	0.0020	mg/Kg wet	0.0200		119		70-130				
Methyl Acetate	0.0163	0.0020	mg/Kg wet	0.0200		81.3		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0195	0.0040	mg/Kg wet	0.0200		97.4		70-130				
Methylene Chloride	0.0146	0.020	mg/Kg wet	0.0200		72.8		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.174	0.020	mg/Kg wet	0.200		86.9		70-160				†
Styrene	0.0233	0.0020	mg/Kg wet	0.0200		116		70-130				
1,1,2,2-Tetrachloroethane	0.0215	0.0010	mg/Kg wet	0.0200		107		70-130				
Tetrachloroethylene	0.0247	0.0020	mg/Kg wet	0.0200		123		70-130				
Toluene	0.0190	0.0020	mg/Kg wet	0.0200		94.9		70-130				
1,2,3-Trichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130				
1,2,4-Trichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130				
1,1,1-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
1,1,2-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B143969 - SW-846 5035													
LCS (B143969-BS1)				Prepared & Analyzed: 03/10/16									
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130					
Trichlorofluoromethane (Freon 11)	0.0170	0.010	mg/Kg wet	0.0200		85.0		70-130					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0177	0.010	mg/Kg wet	0.0200		88.6		70-130					
Vinyl Chloride	0.0152	0.010	mg/Kg wet	0.0200		75.8		40-130					†
m+p Xylene	0.0451	0.0040	mg/Kg wet	0.0400		113		70-130					
o-Xylene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130					
Surrogate: 1,2-Dichloroethane-d4	*0.0456*		mg/Kg wet	0.0500		91.2		70-130					
Surrogate: Toluene-d8	*0.0485*		mg/Kg wet	0.0500		97.1		70-130					
Surrogate: 4-Bromofluorobenzene	*0.0533*		mg/Kg wet	0.0500		107		70-130					
LCS Dup (B143969-BSD1)				Prepared & Analyzed: 03/10/16									
Acetone	0.188	0.10	mg/Kg wet	0.200		93.9		70-160	**50.2**	*	25	R-05	†
Benzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7		70-130	1.49		25		
Bromobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	0.363		25		
Bromochloromethane	0.0192	0.0020	mg/Kg wet	0.0200		95.8		70-130	2.32		25		
Bromodichloromethane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	1.07		25		
Bromoform	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	2.24		25		
Bromomethane	0.0111	0.010	mg/Kg wet	0.0200		55.6		40-130	11.6		25		†
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.3		70-160	**32.4**	*	25	R-05	†
Carbon Disulfide	0.0161	0.0060	mg/Kg wet	0.0200		80.6		70-130	0.988		25		
Carbon Tetrachloride	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	0.930		25		
Chlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	0.697		25		
Chlorodibromomethane	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	0.462		25		
Chloroethane	0.0183	0.020	mg/Kg wet	0.0200		91.6		70-130	6.66		25	J	
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		97.0		70-130	0.309		25		
Chloromethane	0.0127	0.010	mg/Kg wet	0.0200		**63.4**	*	70-130	4.02		25	L-04	
Cyclohexane	0.0170	0.0020	mg/Kg wet	0.0200		84.8		70-130	2.99		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130	0.113		25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	0.277		25		
1,2-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130	2.45		25		
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	1.60		25		
1,4-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130	1.35		25		
Dichlorodifluoromethane (Freon 12)	0.0132	0.020	mg/Kg wet	0.0200		66.1		40-160	4.00		25	J	†
1,1-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130	2.09		25		
1,2-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130	4.25		25		
1,1-Dichloroethylene	0.0169	0.0040	mg/Kg wet	0.0200		84.6		70-130	3.61		25		
cis-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		92.1		70-130	2.98		25		
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.0		70-130	1.66		25		
1,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130	1.52		25		
cis-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		94.1		70-130	0.426		25		
trans-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.0200		97.4		70-130	1.45		25		
1,4-Dioxane	0.189	0.10	mg/Kg wet	0.200		94.4		40-160	3.91		50		† ‡
Ethylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130	0.0873		25		
2-Hexanone (MBK)	0.185	0.020	mg/Kg wet	0.200		92.6		70-160	22.5		25		†
Isopropylbenzene (Cumene)	0.0240	0.0020	mg/Kg wet	0.0200		120		70-130	0.753		25		
Methyl Acetate	0.0162	0.0020	mg/Kg wet	0.0200		80.9		70-130	0.493		25		
Methyl tert-Butyl Ether (MTBE)	0.0194	0.0040	mg/Kg wet	0.0200		97.0		70-130	0.412		25		
Methylene Chloride	0.0159	0.020	mg/Kg wet	0.0200		79.3		40-160	8.55		25	J	†
4-Methyl-2-pentanone (MIBK)	0.173	0.020	mg/Kg wet	0.200		86.5		70-160	0.438		25		†
Styrene	0.0236	0.0020	mg/Kg wet	0.0200		118		70-130	1.36		25		
1,1,2,2-Tetrachloroethane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130	1.39		25		
Tetrachloroethylene	0.0247	0.0020	mg/Kg wet	0.0200		124		70-130	0.243		25		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143969 - SW-846 5035										
LCS Dup (B143969-BSD1)				Prepared & Analyzed: 03/10/16						
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130	1.67	25	
1,2,3-Trichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	0.276	25	
1,2,4-Trichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.471	25	
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.18	25	
1,1,2-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	0.375	25	
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.190	25	
Trichlorofluoromethane (Freon 11)	0.0176	0.010	mg/Kg wet	0.0200		88.0	70-130	3.47	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0184	0.010	mg/Kg wet	0.0200		92.1	70-130	3.87	25	
Vinyl Chloride	0.0151	0.010	mg/Kg wet	0.0200		75.7	40-130	0.132	25	†
m+p Xylene	0.0450	0.0040	mg/Kg wet	0.0400		112	70-130	0.400	25	
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	0.906	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0456*		mg/Kg wet	0.0500		91.3	70-130			
Surrogate: Toluene-d8	*0.0478*		mg/Kg wet	0.0500		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0532*		mg/Kg wet	0.0500		106	70-130			
Batch B143973 - SW-846 5035										
Blank (B143973-BLK1)				Prepared & Analyzed: 03/10/16						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143973 - SW-846 5035												
Blank (B143973-BLK1)				Prepared & Analyzed: 03/10/16								
Methyl Acetate	ND	0.0020	mg/Kg wet									
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet									
Methylene Chloride	ND	0.020	mg/Kg wet									
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0449*		mg/Kg wet	0.0500		89.8		70-130				
Surrogate: Toluene-d8	*0.0468*		mg/Kg wet	0.0500		93.6		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0497*		mg/Kg wet	0.0500		99.4		70-130				
LCS (B143973-BS1)				Prepared & Analyzed: 03/10/16								
Acetone	0.169	0.10	mg/Kg wet	0.200		84.3		70-160				†
Benzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5		70-130				
Bromobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130				
Bromochloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.5		70-130				
Bromodichloromethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8		70-130				
Bromoform	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130				
Bromomethane	0.00896	0.010	mg/Kg wet	0.0200		44.8		40-130			J	†
2-Butanone (MEK)	0.160	0.040	mg/Kg wet	0.200		80.2		70-160				†
Carbon Disulfide	0.0160	0.0060	mg/Kg wet	0.0200		79.8		70-130				
Carbon Tetrachloride	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130				
Chlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130				
Chlorodibromomethane	0.0212	0.0010	mg/Kg wet	0.0200		106		70-130				
Chloroethane	0.0182	0.020	mg/Kg wet	0.0200		90.8		70-130			J	
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.7		70-130				
Chloromethane	0.0128	0.010	mg/Kg wet	0.0200		**64.0**	*	70-130			L-04	
Cyclohexane	0.0163	0.0020	mg/Kg wet	0.0200		81.3		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0185	0.0020	mg/Kg wet	0.0200		92.7		70-130				
1,2-Dibromoethane (EDB)	0.0215	0.0010	mg/Kg wet	0.0200		107		70-130				
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130				
1,3-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130				
1,4-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130				
Dichlorodifluoromethane (Freon 12)	0.0132	0.020	mg/Kg wet	0.0200		66.1		40-160			J	†
1,1-Dichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.4		70-130				
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
1,1-Dichloroethylene	0.0163	0.0040	mg/Kg wet	0.0200		81.7		70-130				
cis-1,2-Dichloroethylene	0.0174	0.0020	mg/Kg wet	0.0200		86.8		70-130				
trans-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.2		70-130				
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.3		70-130				
cis-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		92.0		70-130				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143973 - SW-846 5035												
LCS (B143973-BS1)				Prepared & Analyzed: 03/10/16								
trans-1,3-Dichloropropene	0.0186	0.0010	mg/Kg wet	0.0200		92.8		70-130				
1,4-Dioxane	0.183	0.10	mg/Kg wet	0.200		91.6		40-160				†
Ethylbenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130				
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		90.9		70-160				†
Isopropylbenzene (Cumene)	0.0241	0.0020	mg/Kg wet	0.0200		121		70-130				
Methyl Acetate	0.0164	0.0020	mg/Kg wet	0.0200		82.0		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0183	0.0040	mg/Kg wet	0.0200		91.3		70-130				
Methylene Chloride	0.0212	0.020	mg/Kg wet	0.0200		106		40-160				†
4-Methyl-2-pentanone (MIBK)	0.174	0.020	mg/Kg wet	0.200		87.0		70-160				†
Styrene	0.0231	0.0020	mg/Kg wet	0.0200		116		70-130				
1,1,2,2-Tetrachloroethane	0.0216	0.0010	mg/Kg wet	0.0200		108		70-130				
Tetrachloroethylene	0.0249	0.0020	mg/Kg wet	0.0200		124		70-130				
Toluene	0.0189	0.0020	mg/Kg wet	0.0200		94.3		70-130				
1,2,3-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130				
1,2,4-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130				
1,1,1-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.6		70-130				
1,1,2-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130				
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Trichlorofluoromethane (Freon 11)	0.0170	0.010	mg/Kg wet	0.0200		85.0		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0182	0.010	mg/Kg wet	0.0200		91.1		70-130				
Vinyl Chloride	0.0146	0.010	mg/Kg wet	0.0200		73.1		40-130				†
m+p Xylene	0.0451	0.0040	mg/Kg wet	0.0400		113		70-130				
o-Xylene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0453*		mg/Kg wet	0.0500		90.6		70-130				
Surrogate: Toluene-d8	*0.0488*		mg/Kg wet	0.0500		97.5		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0527*		mg/Kg wet	0.0500		105		70-130				
LCS Dup (B143973-BSD1)				Prepared & Analyzed: 03/10/16								
Acetone	0.154	0.10	mg/Kg wet	0.200		77.1		70-160	8.95	25		†
Benzene	0.0173	0.0020	mg/Kg wet	0.0200		86.3		70-130	5.85	25		
Bromobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	7.17	25		
Bromochloromethane	0.0179	0.0020	mg/Kg wet	0.0200		89.4		70-130	1.22	25		
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.2		70-130	4.72	25		
Bromoform	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	4.05	25		
Bromomethane	0.00882	0.010	mg/Kg wet	0.0200		44.1		40-130	1.57	25	J	†
2-Butanone (MEK)	0.149	0.040	mg/Kg wet	0.200		74.7		70-160	7.09	25		†
Carbon Disulfide	0.0145	0.0060	mg/Kg wet	0.0200		72.6		70-130	9.45	25		
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.1		70-130	9.13	25		
Chlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130	6.26	25		
Chlorodibromomethane	0.0201	0.0010	mg/Kg wet	0.0200		100		70-130	5.43	25		
Chloroethane	0.0178	0.020	mg/Kg wet	0.0200		89.0		70-130	2.00	25	J	
Chloroform	0.0173	0.0040	mg/Kg wet	0.0200		86.3		70-130	8.22	25		
Chloromethane	0.0104	0.010	mg/Kg wet	0.0200		**52.2**	*	70-130	20.3	25	L-04	
Cyclohexane	0.0157	0.0020	mg/Kg wet	0.0200		78.4		70-130	3.63	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0169	0.0020	mg/Kg wet	0.0200		84.7		70-130	9.02	25		
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101		70-130	5.95	25		
1,2-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130	3.17	25		
1,3-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	2.15	25		
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130	2.63	25		
Dichlorodifluoromethane (Freon 12)	0.0127	0.020	mg/Kg wet	0.0200		63.4		40-160	4.17	25	J	†
1,1-Dichloroethane	0.0170	0.0020	mg/Kg wet	0.0200		84.9		70-130	8.46	25		
1,2-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.3		70-130	10.3	25		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143973 - SW-846 5035										
LCS Dup (B143973-BSD1)				Prepared & Analyzed: 03/10/16						
1,1-Dichloroethylene	0.0148	0.0040	mg/Kg wet	0.0200		74.2	70-130	9.62	25	
cis-1,2-Dichloroethylene	0.0160	0.0020	mg/Kg wet	0.0200		80.0	70-130	8.15	25	
trans-1,2-Dichloroethylene	0.0166	0.0020	mg/Kg wet	0.0200		83.1	70-130	7.08	25	
1,2-Dichloropropane	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130	5.55	25	
cis-1,3-Dichloropropene	0.0169	0.0010	mg/Kg wet	0.0200		84.7	70-130	8.26	25	
trans-1,3-Dichloropropene	0.0173	0.0010	mg/Kg wet	0.0200		86.7	70-130	6.80	25	
1,4-Dioxane	0.174	0.10	mg/Kg wet	0.200		87.2	40-160	4.98	50	† ‡
Ethylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	8.70	25	
2-Hexanone (MBK)	0.170	0.020	mg/Kg wet	0.200		85.0	70-160	6.73	25	†
Isopropylbenzene (Cumene)	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	6.41	25	
Methyl Acetate	0.0152	0.0020	mg/Kg wet	0.0200		76.2	70-130	7.33	25	
Methyl tert-Butyl Ether (MTBE)	0.0170	0.0040	mg/Kg wet	0.0200		85.0	70-130	7.15	25	
Methylene Chloride	0.0205	0.020	mg/Kg wet	0.0200		102	40-160	3.36	25	†
4-Methyl-2-pentanone (MIBK)	0.164	0.020	mg/Kg wet	0.200		82.0	70-160	5.92	25	†
Styrene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	6.07	25	
1,1,2,2-Tetrachloroethane	0.0205	0.0010	mg/Kg wet	0.0200		103	70-130	5.31	25	
Tetrachloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	7.93	25	
Toluene	0.0179	0.0020	mg/Kg wet	0.0200		89.3	70-130	5.45	25	
1,2,3-Trichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.6	70-130	2.56	25	
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	2.24	25	
1,1,1-Trichloroethane	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130	6.12	25	
1,1,2-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	5.30	25	
Trichloroethylene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	6.94	25	
Trichlorofluoromethane (Freon 11)	0.0165	0.010	mg/Kg wet	0.0200		82.4	70-130	3.11	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0175	0.010	mg/Kg wet	0.0200		87.5	70-130	4.03	25	
Vinyl Chloride	0.0140	0.010	mg/Kg wet	0.0200		69.8	40-130	4.62	25	†
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130	7.97	25	
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	6.71	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0452*		mg/Kg wet	0.0500		90.4	70-130			
Surrogate: Toluene-d8	*0.0484*		mg/Kg wet	0.0500		96.9	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0519*		mg/Kg wet	0.0500		104	70-130			
Batch B144021 - SW-846 5035										
Blank (B144021-BLK1)				Prepared & Analyzed: 03/11/16						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0243*		mg/Kg wet	0.0250		97.2	70-130			
Surrogate: Toluene-d8	*0.0242*		mg/Kg wet	0.0250		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0241*		mg/Kg wet	0.0250		96.4	70-130			
LCS (B144021-BS1)				Prepared & Analyzed: 03/11/16						
Tetrachloroethylene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Trichloroethylene	0.0123	0.0011	mg/Kg wet	0.0113		108	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0275*		mg/Kg wet	0.0283		96.9	70-130			
Surrogate: Toluene-d8	*0.0274*		mg/Kg wet	0.0283		96.6	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0282*		mg/Kg wet	0.0283		99.6	70-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B144021 - SW-846 5035										
LCS Dup (B144021-BSD1)				Prepared & Analyzed: 03/11/16						
Tetrachloroethylene	0.0126	0.0011	mg/Kg wet	0.0113		112	70-130	2.91	25	
Trichloroethylene	0.0124	0.0011	mg/Kg wet	0.0113		110	70-130	1.01	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0275*		mg/Kg wet	0.0283		97.0	70-130			
Surrogate: Toluene-d8	*0.0275*		mg/Kg wet	0.0283		97.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0279*		mg/Kg wet	0.0283		98.6	70-130			
Batch B144053 - SW-846 5035										
Blank (B144053-BLK1)				Prepared & Analyzed: 03/11/16						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							R-05
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B144053 - SW-846 5035												
Blank (B144053-BLK1)				Prepared & Analyzed: 03/11/16								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0449*		mg/Kg wet	0.0500		89.8		70-130				
Surrogate: Toluene-d8	*0.0470*		mg/Kg wet	0.0500		94.1		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0487*		mg/Kg wet	0.0500		97.4		70-130				
LCS (B144053-BS1)				Prepared & Analyzed: 03/11/16								
Acetone	0.249	0.10	mg/Kg wet	0.200		124		70-160				†
Benzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2		70-130				
Bromobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
Bromochloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.4		70-130				
Bromodichloromethane	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130				
Bromoform	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130				
Bromomethane	0.00826	0.010	mg/Kg wet	0.0200		41.3		40-130			J	†
2-Butanone (MEK)	0.197	0.040	mg/Kg wet	0.200		98.4		70-160				†
Carbon Disulfide	0.0158	0.0060	mg/Kg wet	0.0200		78.8		70-130				
Carbon Tetrachloride	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130				
Chlorobenzene	0.0232	0.0020	mg/Kg wet	0.0200		116		70-130				
Chlorodibromomethane	0.0207	0.0010	mg/Kg wet	0.0200		104		70-130				
Chloroethane	0.0180	0.020	mg/Kg wet	0.0200		90.2		70-130			J	
Chloroform	0.0185	0.0040	mg/Kg wet	0.0200		92.6		70-130				
Chloromethane	0.0114	0.010	mg/Kg wet	0.0200		**57.0**	*	70-130			L-04	
Cyclohexane	0.0158	0.0020	mg/Kg wet	0.0200		78.9		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0162	0.0020	mg/Kg wet	0.0200		81.0		70-130				
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		105		70-130				
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130				
1,3-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130				
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Dichlorodifluoromethane (Freon 12)	0.0125	0.020	mg/Kg wet	0.0200		62.6		40-160			J, R-05	†
1,1-Dichloroethane	0.0184	0.0020	mg/Kg wet	0.0200		92.2		70-130				
1,2-Dichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.2		70-130				
1,1-Dichloroethylene	0.0159	0.0040	mg/Kg wet	0.0200		79.4		70-130				
cis-1,2-Dichloroethylene	0.0176	0.0020	mg/Kg wet	0.0200		88.1		70-130				
trans-1,2-Dichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		86.2		70-130				
1,2-Dichloropropane	0.0192	0.0020	mg/Kg wet	0.0200		96.0		70-130				
cis-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.4		70-130				
trans-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		92.0		70-130				
1,4-Dioxane	0.179	0.10	mg/Kg wet	0.200		89.6		40-160				†
Ethylbenzene	0.0235	0.0020	mg/Kg wet	0.0200		118		70-130				
2-Hexanone (MBK)	0.194	0.020	mg/Kg wet	0.200		96.9		70-160				†
Isopropylbenzene (Cumene)	0.0241	0.0020	mg/Kg wet	0.0200		121		70-130				
Methyl Acetate	0.0148	0.0020	mg/Kg wet	0.0200		74.1		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0178	0.0040	mg/Kg wet	0.0200		89.2		70-130				
Methylene Chloride	0.0151	0.020	mg/Kg wet	0.0200		75.4		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.164	0.020	mg/Kg wet	0.200		82.0		70-160				†
Styrene	0.0232	0.0020	mg/Kg wet	0.0200		116		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B144053 - SW-846 5035												
LCS (B144053-BS1)				Prepared & Analyzed: 03/11/16								
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.0200		107		70-130				
Tetrachloroethylene	0.0246	0.0020	mg/Kg wet	0.0200		123		70-130				
Toluene	0.0190	0.0020	mg/Kg wet	0.0200		94.9		70-130				
1,2,3-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9		70-130				
1,2,4-Trichlorobenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.7		70-130				
1,1,1-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130				
1,1,2-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Trichloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130				
Trichlorofluoromethane (Freon 11)	0.0173	0.010	mg/Kg wet	0.0200		86.6		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0177	0.010	mg/Kg wet	0.0200		88.5		70-130				
Vinyl Chloride	0.0149	0.010	mg/Kg wet	0.0200		74.3		40-130				†
m+p Xylene	0.0454	0.0040	mg/Kg wet	0.0400		113		70-130				
o-Xylene	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0447*		mg/Kg wet	0.0500		89.3		70-130				
Surrogate: Toluene-d8	*0.0474*		mg/Kg wet	0.0500		94.8		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0526*		mg/Kg wet	0.0500		105		70-130				
LCS Dup (B144053-BSD1)				Prepared & Analyzed: 03/11/16								
Acetone	0.250	0.10	mg/Kg wet	0.200		125		70-160	0.521	25		†
Benzene	0.0176	0.0020	mg/Kg wet	0.0200		87.9		70-130	3.69	25		
Bromobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	1.83	25		
Bromochloromethane	0.0171	0.0020	mg/Kg wet	0.0200		85.3		70-130	5.81	25		
Bromodichloromethane	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130	0.605	25		
Bromoform	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	3.38	25		
Bromomethane	0.00974	0.010	mg/Kg wet	0.0200		48.7		40-130	16.4	25	J	†
2-Butanone (MEK)	0.197	0.040	mg/Kg wet	0.200		98.4		70-160	0.0610	25		†
Carbon Disulfide	0.0149	0.0060	mg/Kg wet	0.0200		74.4		70-130	5.74	25		
Carbon Tetrachloride	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	3.37	25		
Chlorobenzene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	2.62	25		
Chlorodibromomethane	0.0203	0.0010	mg/Kg wet	0.0200		102		70-130	1.85	25		
Chloroethane	0.0172	0.020	mg/Kg wet	0.0200		85.9		70-130	4.88	25	J	
Chloroform	0.0176	0.0040	mg/Kg wet	0.0200		88.2		70-130	4.87	25		
Chloromethane	0.0108	0.010	mg/Kg wet	0.0200		**53.8**	*	70-130	5.78	25	L-04	
Cyclohexane	0.0154	0.0020	mg/Kg wet	0.0200		76.9		70-130	2.57	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0148	0.0020	mg/Kg wet	0.0200		74.2		70-130	8.76	25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	2.90	25		
1,2-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	0.282	25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	1.23	25		
1,4-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	1.47	25		
Dichlorodifluoromethane (Freon 12)	0.00816	0.020	mg/Kg wet	0.0200		40.8		40-160	**42.2** *	25	J, R-05	†
1,1-Dichloroethane	0.0176	0.0020	mg/Kg wet	0.0200		88.0		70-130	4.66	25		
1,2-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	0.710	25		
1,1-Dichloroethylene	0.0158	0.0040	mg/Kg wet	0.0200		79.1		70-130	0.379	25		
cis-1,2-Dichloroethylene	0.0164	0.0020	mg/Kg wet	0.0200		81.8		70-130	7.42	25		
trans-1,2-Dichloroethylene	0.0170	0.0020	mg/Kg wet	0.0200		85.0		70-130	1.40	25		
1,2-Dichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.6		70-130	3.61	25		
cis-1,3-Dichloropropene	0.0176	0.0010	mg/Kg wet	0.0200		88.1		70-130	4.76	25		
trans-1,3-Dichloropropene	0.0182	0.0010	mg/Kg wet	0.0200		91.0		70-130	1.09	25		
1,4-Dioxane	0.151	0.10	mg/Kg wet	0.200		75.3		40-160	17.4	50		† ‡
Ethylbenzene	0.0227	0.0020	mg/Kg wet	0.0200		113		70-130	3.64	25		
2-Hexanone (MBK)	0.194	0.020	mg/Kg wet	0.200		96.8		70-160	0.0723	25		†
Isopropylbenzene (Cumene)	0.0235	0.0020	mg/Kg wet	0.0200		118		70-130	2.52	25		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B144053 - SW-846 5035											
LCS Dup (B144053-BSD1)				Prepared & Analyzed: 03/11/16							
Methyl Acetate	0.0144	0.0020	mg/Kg wet	0.0200		72.2	70-130	2.60	25		
Methyl tert-Butyl Ether (MTBE)	0.0178	0.0040	mg/Kg wet	0.0200		88.8	70-130	0.449	25		
Methylene Chloride	0.0144	0.020	mg/Kg wet	0.0200		72.1	40-160	4.47	25	J	†
4-Methyl-2-pentanone (MIBK)	0.163	0.020	mg/Kg wet	0.200		81.7	70-160	0.330	25		†
Styrene	0.0231	0.0020	mg/Kg wet	0.0200		116	70-130	0.0864	25		
1,1,2,2-Tetrachloroethane	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	4.12	25		
Tetrachloroethylene	0.0239	0.0020	mg/Kg wet	0.0200		120	70-130	3.05	25		
Toluene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	2.78	25		
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130	4.83	25		
1,2,4-Trichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130	5.68	25		
1,1,1-Trichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130	4.34	25		
1,1,2-Trichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	6.73	25		
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130	3.61	25		
Trichlorofluoromethane (Freon 11)	0.0166	0.010	mg/Kg wet	0.0200		82.9	70-130	4.37	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0174	0.010	mg/Kg wet	0.0200		86.9	70-130	1.82	25		
Vinyl Chloride	0.0143	0.010	mg/Kg wet	0.0200		71.6	40-130	3.70	25		†
m+p Xylene	0.0444	0.0040	mg/Kg wet	0.0400		111	70-130	2.23	25		
o-Xylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	3.56	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0445*		mg/Kg wet	0.0500		88.9	70-130				
Surrogate: Toluene-d8	*0.0483*		mg/Kg wet	0.0500		96.7	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0517*		mg/Kg wet	0.0500		103	70-130				

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QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143969 - SW-846 5035										
Blank (B143969-BLK1)				Prepared & Analyzed: 03/10/16						
No TICs Found	0.0		mg/Kg wet							
Batch B143973 - SW-846 5035										
Blank (B143973-BLK1)				Prepared & Analyzed: 03/10/16						
No TICs Found	0.0		mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS (SIM) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B144215 - SW-846 5035										
Blank (B144215-BLK1)				Prepared & Analyzed: 03/14/16						
1,4-Dioxane	ND	0.0020	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.0125*		mg/Kg wet	0.0100		125	40-160			
LCS (B144215-BS1)				Prepared & Analyzed: 03/14/16						
1,4-Dioxane	0.00587	0.0020	mg/Kg wet	0.00500		117	60-140			
Surrogate: 1,4-Dioxane-d8	*0.0124*		mg/Kg wet	0.0100		124	40-160			
LCS Dup (B144215-BSD1)				Prepared & Analyzed: 03/14/16						
1,4-Dioxane	0.00649	0.0020	mg/Kg wet	0.00500		130	60-140	10.0	20	
Surrogate: 1,4-Dioxane-d8	*0.0126*		mg/Kg wet	0.0100		126	40-160			
Batch B144274 - SW-846 5035										
Blank (B144274-BLK1)				Prepared & Analyzed: 03/15/16						
1,4-Dioxane	ND	0.0020	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.0130*		mg/Kg wet	0.0100		130	40-160			
LCS (B144274-BS1)				Prepared & Analyzed: 03/15/16						
1,4-Dioxane	0.00585	0.0020	mg/Kg wet	0.00500		117	60-140			
Surrogate: 1,4-Dioxane-d8	*0.0112*		mg/Kg wet	0.0100		112	40-160			
LCS Dup (B144274-BSD1)				Prepared & Analyzed: 03/15/16						
1,4-Dioxane	0.00623	0.0020	mg/Kg wet	0.00500		125	60-140	6.29	20	
Surrogate: 1,4-Dioxane-d8	*0.0110*		mg/Kg wet	0.0100		110	40-160			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143887 - SW-846 3546										
Blank (B143887-BLK1)				Prepared: 03/09/16 Analyzed: 03/12/16						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							R-05
Benzaldehyde	ND	0.34	mg/Kg wet							V-20
Biphenyl	ND	0.67	mg/Kg wet							R-05
Caprolactam	ND	0.34	mg/Kg wet							R-05
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							R-05
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143887 - SW-846 3546										
Blank (B143887-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							V-05
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Atrazine	ND	0.67	mg/Kg wet							
Surrogate: 2-Fluorophenol	*5.14*		mg/Kg wet	6.67		77.1	30-130			
Surrogate: Phenol-d6	*5.44*		mg/Kg wet	6.67		81.6	30-130			
Surrogate: Nitrobenzene-d5	*2.72*		mg/Kg wet	3.33		81.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.59*		mg/Kg wet	3.33		77.6	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.16*		mg/Kg wet	6.67		77.4	30-130			
Surrogate: p-Terphenyl-d14	*3.06*		mg/Kg wet	3.33		91.9	30-130			
LCS (B143887-BS1)				Prepared: 03/09/16 Analyzed: 03/12/16						
2,3,4,6-Tetrachlorophenol	1.37	0.67	mg/Kg wet	1.67		82.2	40-140			R-05
Benzaldehyde	1.14	0.34	mg/Kg wet	1.67		68.7	40-140			V-20
Biphenyl	1.39	0.67	mg/Kg wet	1.67		83.1	40-140			R-05
Caprolactam	1.32	0.34	mg/Kg wet	1.67		79.2	40-140			R-05
Acenaphthene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140			
Acenaphthylene	1.40	0.17	mg/Kg wet	1.67		84.0	40-140			
Acetophenone	1.31	0.34	mg/Kg wet	1.67		78.7	40-140			
Anthracene	1.37	0.17	mg/Kg wet	1.67		82.1	40-140			
Benzo(a)anthracene	1.42	0.17	mg/Kg wet	1.67		85.3	40-140			
Benzo(a)pyrene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140			
Benzo(b)fluoranthene	1.35	0.17	mg/Kg wet	1.67		81.2	40-140			
Benzo(g,h,i)perylene	1.42	0.17	mg/Kg wet	1.67		85.5	40-140			
Benzo(k)fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.3	40-140			
Bis(2-chloroethoxy)methane	1.43	0.34	mg/Kg wet	1.67		85.5	40-140			
Bis(2-chloroethyl)ether	1.39	0.34	mg/Kg wet	1.67		83.5	40-140			
Bis(2-Ethylhexyl)phthalate	1.41	0.34	mg/Kg wet	1.67		84.6	40-140			
4-Bromophenylphenylether	1.32	0.34	mg/Kg wet	1.67		78.9	40-140			
Butylbenzylphthalate	1.49	0.34	mg/Kg wet	1.67		89.4	40-140			
Carbazole	1.42	0.17	mg/Kg wet	1.67		85.5	40-140			
4-Chloroaniline	0.865	0.66	mg/Kg wet	1.67		51.9	10-140			†
4-Chloro-3-methylphenol	1.48	0.66	mg/Kg wet	1.67		88.6	30-130			
2-Chloronaphthalene	1.17	0.34	mg/Kg wet	1.67		70.3	40-140			
2-Chlorophenol	1.32	0.34	mg/Kg wet	1.67		78.9	30-130			
4-Chlorophenylphenylether	1.39	0.34	mg/Kg wet	1.67		83.6	40-140			
Chrysene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140			
Dibenz(a,h)anthracene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Dibenzofuran	1.42	0.34	mg/Kg wet	1.67		85.2	40-140			
Di-n-butylphthalate	1.37	0.34	mg/Kg wet	1.67		82.4	40-140			
3,3-Dichlorobenzidine	0.735	0.17	mg/Kg wet	1.67		44.1	20-140			†
2,4-Dichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.5	30-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B143887 - SW-846 3546											
LCS (B143887-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16							
Diethylphthalate	1.43	0.34	mg/Kg wet	1.67		85.7	40-140				
2,4-Dimethylphenol	1.32	0.34	mg/Kg wet	1.67		79.0	30-130				
Dimethylphthalate	1.44	0.34	mg/Kg wet	1.67		86.2	40-140				
4,6-Dinitro-2-methylphenol	1.04	0.34	mg/Kg wet	1.67		62.7	30-130				
2,4-Dinitrophenol	0.556	0.66	mg/Kg wet	1.67		33.3	30-130			J	
2,4-Dinitrotoluene	1.36	0.34	mg/Kg wet	1.67		81.4	40-140				
2,6-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.2	40-140				
Di-n-octylphthalate	1.31	0.34	mg/Kg wet	1.67		78.7	40-140			R-05	
Fluoranthene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140				
Fluorene	1.43	0.17	mg/Kg wet	1.67		85.6	40-140				
Hexachlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.5	40-140				
Hexachlorobutadiene	1.16	0.34	mg/Kg wet	1.67		69.6	40-140				
Hexachlorocyclopentadiene	0.835	0.34	mg/Kg wet	1.67		50.1	40-140			V-05	
Hexachloroethane	1.16	0.34	mg/Kg wet	1.67		69.4	40-140				
Indeno(1,2,3-cd)pyrene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140				
Isophorone	1.45	0.34	mg/Kg wet	1.67		87.1	40-140				
2-Methylnaphthalene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140				
2-Methylphenol	1.09	0.34	mg/Kg wet	1.67		65.3	30-130				
3/4-Methylphenol	1.38	0.34	mg/Kg wet	1.67		82.9	30-130				
Naphthalene	1.27	0.17	mg/Kg wet	1.67		76.5	40-140				
2-Nitroaniline	1.58	0.34	mg/Kg wet	1.67		94.6	40-140				
3-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		79.0	30-140				†
4-Nitroaniline	1.25	0.34	mg/Kg wet	1.67		75.2	40-140				
Nitrobenzene	1.35	0.34	mg/Kg wet	1.67		81.2	40-140				
2-Nitrophenol	1.37	0.34	mg/Kg wet	1.67		82.0	30-130				
4-Nitrophenol	1.91	0.66	mg/Kg wet	1.67		115	30-130			V-20	
N-Nitrosodiphenylamine	1.68	0.34	mg/Kg wet	1.67		101	40-140				
N-Nitrosodi-n-propylamine	1.38	0.34	mg/Kg wet	1.67		83.0	40-140				
Pentachlorophenol	0.985	0.34	mg/Kg wet	1.67		59.1	30-130			V-05	
Phenanthrene	1.39	0.17	mg/Kg wet	1.67		83.5	40-140				
Phenol	1.52	0.34	mg/Kg wet	1.67		91.0	30-130				
Pyrene	1.48	0.17	mg/Kg wet	1.67		88.8	40-140				
1,2,4,5-Tetrachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140				
2,4,5-Trichlorophenol	1.31	0.34	mg/Kg wet	1.67		78.6	30-130				
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		86.0	30-130				
Atrazine	1.49	0.67	mg/Kg wet	1.67		89.2	40-140				
Surrogate: 2-Fluorophenol	*5.74*		mg/Kg wet	6.67		86.1	30-130				
Surrogate: Phenol-d6	*6.02*		mg/Kg wet	6.67		90.4	30-130				
Surrogate: Nitrobenzene-d5	*2.97*		mg/Kg wet	3.33		89.0	30-130				
Surrogate: 2-Fluorobiphenyl	*2.95*		mg/Kg wet	3.33		88.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.91*		mg/Kg wet	6.67		88.7	30-130				
Surrogate: p-Terphenyl-d14	*3.15*		mg/Kg wet	3.33		94.4	30-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes	
Batch B143887 - SW-846 3546												
LCS Dup (B143887-BSD1)				Prepared: 03/09/16 Analyzed: 03/12/16								
2,3,4,6-Tetrachlorophenol	1.74	0.67	mg/Kg wet	1.67		104	40-140	**23.7**	*	20	R-05	
Benzaldehyde	1.39	0.34	mg/Kg wet	1.67		83.4	40-140	19.4		20	V-20	
Biphenyl	1.75	0.67	mg/Kg wet	1.67		105	40-140	**23.1**	*	20	R-05	
Caprolactam	1.69	0.34	mg/Kg wet	1.67		101	40-140	**24.4**	*	20	R-05	
Acenaphthene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140	21.5		30		
Acenaphthylene	1.75	0.17	mg/Kg wet	1.67		105	40-140	22.4		30		
Acetophenone	1.62	0.34	mg/Kg wet	1.67		96.9	40-140	20.7		30		
Anthracene	1.70	0.17	mg/Kg wet	1.67		102	40-140	21.5		30		
Benzo(a)anthracene	1.76	0.17	mg/Kg wet	1.67		105	40-140	21.1		30		
Benzo(a)pyrene	1.81	0.17	mg/Kg wet	1.67		109	40-140	25.4		30		
Benzo(b)fluoranthene	1.73	0.17	mg/Kg wet	1.67		104	40-140	24.4		30		
Benzo(g,h,i)perylene	1.74	0.17	mg/Kg wet	1.67		104	40-140	19.9		30		
Benzo(k)fluoranthene	1.80	0.17	mg/Kg wet	1.67		108	40-140	28.0		30		
Bis(2-chloroethoxy)methane	1.82	0.34	mg/Kg wet	1.67		109	40-140	24.0		30		
Bis(2-chloroethyl)ether	1.68	0.34	mg/Kg wet	1.67		101	40-140	18.8		30		
Bis(2-Ethylhexyl)phthalate	1.85	0.34	mg/Kg wet	1.67		111	40-140	27.0		30		
4-Bromophenylphenylether	1.69	0.34	mg/Kg wet	1.67		102	40-140	25.0		30		
Butylbenzylphthalate	1.88	0.34	mg/Kg wet	1.67		112	40-140	22.8		30		
Carbazole	1.73	0.17	mg/Kg wet	1.67		104	40-140	19.5		30		
4-Chloroaniline	0.968	0.66	mg/Kg wet	1.67		58.1	10-140	11.3		30		†
4-Chloro-3-methylphenol	1.83	0.66	mg/Kg wet	1.67		110	30-130	21.3		30		
2-Chloronaphthalene	1.43	0.34	mg/Kg wet	1.67		85.8	40-140	19.9		30		
2-Chlorophenol	1.62	0.34	mg/Kg wet	1.67		97.5	30-130	21.0		30		
4-Chlorophenylphenylether	1.80	0.34	mg/Kg wet	1.67		108	40-140	25.5		30		
Chrysene	1.75	0.17	mg/Kg wet	1.67		105	40-140	23.4		30		
Dibenz(a,h)anthracene	1.64	0.17	mg/Kg wet	1.67		98.7	40-140	23.3		30		
Dibenzofuran	1.78	0.34	mg/Kg wet	1.67		107	40-140	22.4		30		
Di-n-butylphthalate	1.76	0.34	mg/Kg wet	1.67		105	40-140	24.4		30		
3,3-Dichlorobenzidine	0.893	0.17	mg/Kg wet	1.67		53.6	20-140	19.4		50		† ‡
2,4-Dichlorophenol	1.69	0.34	mg/Kg wet	1.67		102	30-130	21.8		30		
Diethylphthalate	1.85	0.34	mg/Kg wet	1.67		111	40-140	25.8		30		
2,4-Dimethylphenol	1.61	0.34	mg/Kg wet	1.67		96.7	30-130	20.1		30		
Dimethylphthalate	1.81	0.34	mg/Kg wet	1.67		109	40-140	23.1		30		
4,6-Dinitro-2-methylphenol	1.33	0.34	mg/Kg wet	1.67		79.9	30-130	24.2		30		
2,4-Dinitrophenol	0.688	0.66	mg/Kg wet	1.67		41.3	30-130	21.3		30		
2,4-Dinitrotoluene	1.74	0.34	mg/Kg wet	1.67		104	40-140	24.8		30		
2,6-Dinitrotoluene	1.76	0.34	mg/Kg wet	1.67		105	40-140	23.6		30		
Di-n-octylphthalate	1.81	0.34	mg/Kg wet	1.67		109	40-140	**32.2**	*	30	R-05	
Fluoranthene	1.73	0.17	mg/Kg wet	1.67		104	40-140	20.8		30		
Fluorene	1.84	0.17	mg/Kg wet	1.67		110	40-140	25.1		30		
Hexachlorobenzene	1.45	0.34	mg/Kg wet	1.67		87.1	40-140	19.7		30		
Hexachlorobutadiene	1.42	0.34	mg/Kg wet	1.67		85.3	40-140	20.3		30		
Hexachlorocyclopentadiene	1.01	0.34	mg/Kg wet	1.67		60.4	40-140	18.6		30	V-05	
Hexachloroethane	1.43	0.34	mg/Kg wet	1.67		85.9	40-140	21.2		30		
Indeno(1,2,3-cd)pyrene	1.70	0.17	mg/Kg wet	1.67		102	40-140	20.0		30		
Isophorone	1.84	0.34	mg/Kg wet	1.67		110	40-140	23.6		30		
2-Methylnaphthalene	1.62	0.17	mg/Kg wet	1.67		97.5	40-140	21.3		30		
2-Methylphenol	1.30	0.34	mg/Kg wet	1.67		78.3	30-130	18.1		30		
3/4-Methylphenol	1.73	0.34	mg/Kg wet	1.67		104	30-130	22.3		30		
Naphthalene	1.58	0.17	mg/Kg wet	1.67		94.9	40-140	21.5		30		
2-Nitroaniline	1.98	0.34	mg/Kg wet	1.67		119	40-140	22.9		30		
3-Nitroaniline	1.57	0.34	mg/Kg wet	1.67		94.1	30-140	17.4		30		†

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143887 - SW-846 3546												
LCS Dup (B143887-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16								
4-Nitroaniline	1.61	0.34	mg/Kg wet	1.67		96.4		40-140	24.7	30		
Nitrobenzene	1.70	0.34	mg/Kg wet	1.67		102		40-140	22.5	30		
2-Nitrophenol	1.61	0.34	mg/Kg wet	1.67		96.6		30-130	16.4	30		
4-Nitrophenol	2.48	0.66	mg/Kg wet	1.67		**149**	*	30-130	25.7	50	L-07, V-20	‡
N-Nitrosodiphenylamine	2.07	0.34	mg/Kg wet	1.67		124		40-140	20.7	30		
N-Nitrosodi-n-propylamine	1.75	0.34	mg/Kg wet	1.67		105		40-140	23.5	30		
Pentachlorophenol	1.22	0.34	mg/Kg wet	1.67		73.3		30-130	21.4	30	V-05	
Phenanthrene	1.71	0.17	mg/Kg wet	1.67		102		40-140	20.3	30		
Phenol	1.82	0.34	mg/Kg wet	1.67		109		30-130	18.2	30		
Pyrene	1.83	0.17	mg/Kg wet	1.67		110		40-140	20.9	30		
1,2,4,5-Tetrachlorobenzene	1.60	0.34	mg/Kg wet	1.67		95.8		40-140	18.8	30		
2,4,5-Trichlorophenol	1.66	0.34	mg/Kg wet	1.67		99.6		30-130	23.6	30		
2,4,6-Trichlorophenol	1.74	0.34	mg/Kg wet	1.67		105		30-130	19.6	30		
Atrazine	1.90	0.67	mg/Kg wet	1.67		114		40-140	24.7	30		
Surrogate: 2-Fluorophenol	*6.78*		mg/Kg wet	6.67		102		30-130				
Surrogate: Phenol-d6	*7.23*		mg/Kg wet	6.67		108		30-130				
Surrogate: Nitrobenzene-d5	*3.60*		mg/Kg wet	3.33		108		30-130				
Surrogate: 2-Fluorobiphenyl	*3.60*		mg/Kg wet	3.33		108		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.57*		mg/Kg wet	6.67		114		30-130				
Surrogate: p-Terphenyl-d14	*3.98*		mg/Kg wet	3.33		119		30-130				
Matrix Spike (B143887-MS1)		**Source: 16C0347-01**		Prepared: 03/09/16 Analyzed: 03/14/16								
2,3,4,6-Tetrachlorophenol	1.25	0.82	mg/Kg dry	2.03	ND	61.7		40-140				
Benzaldehyde	1.23	0.41	mg/Kg dry	2.03	ND	60.9		40-140				
Biphenyl	1.36	0.82	mg/Kg dry	2.03	ND	67.2		40-140				
Caprolactam	1.19	0.41	mg/Kg dry	2.03	ND	58.9		40-140				
Acenaphthene	1.26	0.21	mg/Kg dry	2.03	ND	62.1		40-140				
Acenaphthylene	1.27	0.21	mg/Kg dry	2.03	ND	62.4		40-140				
Acetophenone	1.16	0.41	mg/Kg dry	2.03	ND	57.4		40-140				
Anthracene	1.22	0.21	mg/Kg dry	2.03	ND	60.3		40-140				
Benzo(a)anthracene	1.26	0.21	mg/Kg dry	2.03	ND	62.1		40-140				
Benzo(a)pyrene	1.29	0.21	mg/Kg dry	2.03	ND	63.7		40-140				
Benzo(b)fluoranthene	1.28	0.21	mg/Kg dry	2.03	ND	63.1		40-140				
Benzo(g,h,i)perylene	1.32	0.21	mg/Kg dry	2.03	ND	65.3		40-140				
Benzo(k)fluoranthene	1.24	0.21	mg/Kg dry	2.03	ND	61.4		40-140				
Bis(2-chloroethoxy)methane	1.28	0.41	mg/Kg dry	2.03	ND	63.1		40-140				
Bis(2-chloroethyl)ether	1.18	0.41	mg/Kg dry	2.03	ND	58.4		40-140				
Bis(2-Ethylhexyl)phthalate	2.02	0.41	mg/Kg dry	2.03	1.50	**25.5**	*	40-140			MS-23	
4-Bromophenylphenylether	1.20	0.41	mg/Kg dry	2.03	ND	59.3		40-140			R-06	
Butylbenzylphthalate	1.43	0.41	mg/Kg dry	2.03	ND	70.3		40-140				
Carbazole	1.27	0.21	mg/Kg dry	2.03	ND	62.5		40-140				
4-Chloroaniline	0.808	0.80	mg/Kg dry	2.03	ND	**39.9**	*	40-140			MS-22	
4-Chloro-3-methylphenol	1.28	0.80	mg/Kg dry	2.03	ND	62.9		30-130				
2-Chloronaphthalene	1.06	0.41	mg/Kg dry	2.03	ND	52.4		40-140			R-06	
2-Chlorophenol	1.13	0.41	mg/Kg dry	2.03	ND	55.9		30-130				
4-Chlorophenylphenylether	1.29	0.41	mg/Kg dry	2.03	ND	63.8		40-140				
Chrysene	1.22	0.21	mg/Kg dry	2.03	ND	60.3		40-140				
Dibenz(a,h)anthracene	1.26	0.21	mg/Kg dry	2.03	ND	62.2		40-140				
Dibenzofuran	1.30	0.41	mg/Kg dry	2.03	ND	64.3		40-140				
Di-n-butylphthalate	1.24	0.41	mg/Kg dry	2.03	ND	61.0		40-140				
3,3-Dichlorobenzidine	0.826	0.21	mg/Kg dry	2.03	ND	40.7		40-140				
2,4-Dichlorophenol	1.24	0.41	mg/Kg dry	2.03	ND	61.4		30-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143887 - SW-846 3546										
Matrix Spike (B143887-MS1)		**Source: 16C0347-01**		Prepared: 03/09/16 Analyzed: 03/14/16						
Diethylphthalate	1.29	0.41	mg/Kg dry	2.03	ND	63.7	40-140			
2,4-Dimethylphenol	1.26	0.41	mg/Kg dry	2.03	ND	62.0	30-130			
Dimethylphthalate	1.31	0.41	mg/Kg dry	2.03	ND	64.8	40-140			
4,6-Dinitro-2-methylphenol	0.978	0.41	mg/Kg dry	2.03	ND	48.2	30-130			
2,4-Dinitrophenol	0.777	0.80	mg/Kg dry	2.03	ND	38.3	30-130			J, R-06
2,4-Dinitrotoluene	1.32	0.41	mg/Kg dry	2.03	ND	65.0	40-140			
2,6-Dinitrotoluene	1.37	0.41	mg/Kg dry	2.03	ND	67.7	40-140			
Di-n-octylphthalate	1.43	0.41	mg/Kg dry	2.03	ND	70.6	40-140			
Fluoranthene	1.25	0.21	mg/Kg dry	2.03	ND	61.5	40-140			
Fluorene	1.30	0.21	mg/Kg dry	2.03	ND	63.9	40-140			
Hexachlorobenzene	1.27	0.41	mg/Kg dry	2.03	ND	62.6	40-140			
Hexachlorobutadiene	1.25	0.41	mg/Kg dry	2.03	ND	61.5	40-140			
Hexachlorocyclopentadiene	0.676	0.41	mg/Kg dry	2.03	ND	33.3	30-130			V-05
Hexachloroethane	1.13	0.41	mg/Kg dry	2.03	ND	55.6	40-140			
Indeno(1,2,3-cd)pyrene	1.28	0.21	mg/Kg dry	2.03	ND	63.3	40-140			
Isophorone	1.37	0.41	mg/Kg dry	2.03	ND	67.8	40-140			
2-Methylnaphthalene	1.22	0.21	mg/Kg dry	2.03	ND	60.0	40-140			
2-Methylphenol	1.13	0.41	mg/Kg dry	2.03	ND	55.5	30-130			
3/4-Methylphenol	1.18	0.41	mg/Kg dry	2.03	ND	58.2	30-130			
Naphthalene	1.19	0.21	mg/Kg dry	2.03	ND	58.9	40-140			
2-Nitroaniline	1.45	0.41	mg/Kg dry	2.03	ND	71.7	40-140			
3-Nitroaniline	1.20	0.41	mg/Kg dry	2.03	ND	59.1	40-140			
4-Nitroaniline	1.22	0.41	mg/Kg dry	2.03	ND	60.1	40-140			
Nitrobenzene	1.32	0.41	mg/Kg dry	2.03	ND	64.9	40-140			
2-Nitrophenol	1.14	0.41	mg/Kg dry	2.03	ND	56.3	30-130			
4-Nitrophenol	1.77	0.80	mg/Kg dry	2.03	ND	87.2	30-130			V-20
N-Nitrosodiphenylamine	1.50	0.41	mg/Kg dry	2.03	ND	73.8	40-140			
N-Nitrosodi-n-propylamine	1.19	0.41	mg/Kg dry	2.03	ND	58.9	40-140			
Pentachlorophenol	0.779	0.41	mg/Kg dry	2.03	ND	38.4	30-130			R-06, V-05
Phenanthrene	1.25	0.21	mg/Kg dry	2.03	ND	61.7	40-140			
Phenol	1.28	0.41	mg/Kg dry	2.03	ND	63.1	30-130			
Pyrene	1.51	0.21	mg/Kg dry	2.03	ND	74.5	40-140			
1,2,4,5-Tetrachlorobenzene	1.24	0.41	mg/Kg dry	2.03	ND	61.0	40-140			
2,4,5-Trichlorophenol	1.19	0.41	mg/Kg dry	2.03	ND	58.7	30-130			
2,4,6-Trichlorophenol	1.27	0.41	mg/Kg dry	2.03	ND	62.6	30-130			
Atrazine	1.35	0.82	mg/Kg dry	2.03	ND	66.8	40-140			
Surrogate: 2-Fluorophenol	*5.01*		mg/Kg dry	8.11		61.7	30-130			
Surrogate: Phenol-d6	*5.22*		mg/Kg dry	8.11		64.3	30-130			
Surrogate: Nitrobenzene-d5	*2.75*		mg/Kg dry	4.06		67.9	30-130			
Surrogate: 2-Fluorobiphenyl	*2.76*		mg/Kg dry	4.06		68.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*5.54*		mg/Kg dry	8.11		68.3	30-130			
Surrogate: p-Terphenyl-d14	*3.11*		mg/Kg dry	4.06		76.6	30-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B143887 - SW-846 3546											
Matrix Spike Dup (B143887-MSD1)		**Source: 16C0347-01**		Prepared: 03/09/16 Analyzed: 03/14/16							
2,3,4,6-Tetrachlorophenol	1.63	0.82	mg/Kg dry	2.03	ND	80.2	40-140	26.1		30	
Benzaldehyde	1.61	0.41	mg/Kg dry	2.03	ND	79.4	40-140	26.4		30	
Biphenyl	1.70	0.82	mg/Kg dry	2.03	ND	83.7	40-140	21.9		30	
Caprolactam	1.50	0.41	mg/Kg dry	2.03	ND	73.9	40-140	22.6		30	
Acenaphthene	1.63	0.21	mg/Kg dry	2.03	ND	80.2	40-140	25.4		30	
Acenaphthylene	1.61	0.21	mg/Kg dry	2.03	ND	79.3	40-140	23.8		30	
Acetophenone	1.49	0.41	mg/Kg dry	2.03	ND	73.3	40-140	24.3		30	
Anthracene	1.55	0.21	mg/Kg dry	2.03	ND	76.5	40-140	23.6		30	
Benzo(a)anthracene	1.65	0.21	mg/Kg dry	2.03	ND	81.2	40-140	26.8		30	
Benzo(a)pyrene	1.66	0.21	mg/Kg dry	2.03	ND	82.0	40-140	25.1		30	
Benzo(b)fluoranthene	1.67	0.21	mg/Kg dry	2.03	ND	82.2	40-140	26.3		30	
Benzo(g,h,i)perylene	1.65	0.21	mg/Kg dry	2.03	ND	81.6	40-140	22.2		30	
Benzo(k)fluoranthene	1.56	0.21	mg/Kg dry	2.03	ND	77.0	40-140	22.6		30	
Bis(2-chloroethoxy)methane	1.61	0.41	mg/Kg dry	2.03	ND	79.2	40-140	22.7		30	
Bis(2-chloroethyl)ether	1.50	0.41	mg/Kg dry	2.03	ND	73.9	40-140	23.4		30	
Bis(2-Ethylhexyl)phthalate	2.91	0.41	mg/Kg dry	2.03	1.50	69.7	40-140	**36.3**	*	30	R-06
4-Bromophenylphenylether	1.63	0.41	mg/Kg dry	2.03	ND	80.4	40-140	**30.2**	*	30	R-06
Butylbenzylphthalate	1.92	0.41	mg/Kg dry	2.03	ND	94.8	40-140	29.7		30	
Carbazole	1.61	0.21	mg/Kg dry	2.03	ND	79.4	40-140	23.9		30	
4-Chloroaniline	0.828	0.80	mg/Kg dry	2.03	ND	40.8	40-140	2.43		30	
4-Chloro-3-methylphenol	1.67	0.80	mg/Kg dry	2.03	ND	82.2	30-130	26.6		30	
2-Chloronaphthalene	1.49	0.41	mg/Kg dry	2.03	ND	73.7	40-140	**33.8**	*	30	R-06
2-Chlorophenol	1.45	0.41	mg/Kg dry	2.03	ND	71.4	30-130	24.4		30	
4-Chlorophenylphenylether	1.66	0.41	mg/Kg dry	2.03	ND	82.1	40-140	25.1		30	
Chrysene	1.58	0.21	mg/Kg dry	2.03	ND	78.0	40-140	25.5		30	
Dibenz(a,h)anthracene	1.58	0.21	mg/Kg dry	2.03	ND	77.9	40-140	22.5		30	
Dibenzofuran	1.67	0.41	mg/Kg dry	2.03	ND	82.3	40-140	24.5		30	
Di-n-butylphthalate	1.58	0.41	mg/Kg dry	2.03	ND	78.1	40-140	24.6		30	
3,3-Dichlorobenzidine	0.891	0.21	mg/Kg dry	2.03	ND	43.9	40-140	7.51		30	
2,4-Dichlorophenol	1.63	0.41	mg/Kg dry	2.03	ND	80.5	30-130	27.0		30	
Diethylphthalate	1.64	0.41	mg/Kg dry	2.03	ND	81.1	40-140	24.0		30	
2,4-Dimethylphenol	1.60	0.41	mg/Kg dry	2.03	ND	78.9	30-130	23.9		30	
Dimethylphthalate	1.65	0.41	mg/Kg dry	2.03	ND	81.5	40-140	22.8		30	
4,6-Dinitro-2-methylphenol	1.32	0.41	mg/Kg dry	2.03	ND	65.0	30-130	29.6		30	
2,4-Dinitrophenol	1.07	0.80	mg/Kg dry	2.03	ND	52.6	30-130	**31.5**	*	30	R-06
2,4-Dinitrotoluene	1.72	0.41	mg/Kg dry	2.03	ND	85.0	40-140	26.6		30	
2,6-Dinitrotoluene	1.77	0.41	mg/Kg dry	2.03	ND	87.3	40-140	25.3		30	
Di-n-octylphthalate	1.82	0.41	mg/Kg dry	2.03	ND	89.9	40-140	24.0		30	
Fluoranthene	1.54	0.21	mg/Kg dry	2.03	ND	75.8	40-140	20.9		30	
Fluorene	1.68	0.21	mg/Kg dry	2.03	ND	82.9	40-140	25.9		30	
Hexachlorobenzene	1.62	0.41	mg/Kg dry	2.03	ND	80.1	40-140	24.5		30	
Hexachlorobutadiene	1.61	0.41	mg/Kg dry	2.03	ND	79.5	40-140	25.6		30	
Hexachlorocyclopentadiene	0.881	0.41	mg/Kg dry	2.03	ND	43.4	30-130	26.4		30	V-05
Hexachloroethane	1.42	0.41	mg/Kg dry	2.03	ND	69.9	40-140	22.7		30	
Indeno(1,2,3-cd)pyrene	1.61	0.21	mg/Kg dry	2.03	ND	79.5	40-140	22.7		30	
Isophorone	1.75	0.41	mg/Kg dry	2.03	ND	86.3	40-140	24.0		30	
2-Methylnaphthalene	1.58	0.21	mg/Kg dry	2.03	ND	77.8	40-140	25.8		30	
2-Methylphenol	1.45	0.41	mg/Kg dry	2.03	ND	71.3	30-130	24.9		30	
3/4-Methylphenol	1.54	0.41	mg/Kg dry	2.03	ND	75.9	30-130	26.3		30	
Naphthalene	1.51	0.21	mg/Kg dry	2.03	ND	74.3	40-140	23.2		30	
2-Nitroaniline	1.83	0.41	mg/Kg dry	2.03	ND	90.4	40-140	23.1		30	
3-Nitroaniline	1.35	0.41	mg/Kg dry	2.03	ND	66.4	40-140	11.7		30	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B143887 - SW-846 3546											
Matrix Spike Dup (B143887-MSD1)		**Source: 16C0347-01**		Prepared: 03/09/16 Analyzed: 03/14/16							
4-Nitroaniline	1.55	0.41	mg/Kg dry	2.03	ND	76.5	40-140	23.9		30	
Nitrobenzene	1.68	0.41	mg/Kg dry	2.03	ND	83.0	40-140	24.5		30	
2-Nitrophenol	1.49	0.41	mg/Kg dry	2.03	ND	73.6	30-130	26.6		30	
4-Nitrophenol	2.25	0.80	mg/Kg dry	2.03	ND	111	30-130	24.0		30	V-20
N-Nitrosodiphenylamine	1.97	0.41	mg/Kg dry	2.03	ND	97.0	40-140	27.1		30	
N-Nitrosodi-n-propylamine	1.55	0.41	mg/Kg dry	2.03	ND	76.6	40-140	26.1		30	
Pentachlorophenol	1.09	0.41	mg/Kg dry	2.03	ND	54.0	30-130	**33.6**	*	30	R-06, V-05
Phenanthrene	1.62	0.21	mg/Kg dry	2.03	ND	79.7	40-140	25.5		30	
Phenol	1.63	0.41	mg/Kg dry	2.03	ND	80.4	30-130	24.1		30	
Pyrene	1.97	0.21	mg/Kg dry	2.03	ND	96.9	40-140	26.2		30	
1,2,4,5-Tetrachlorobenzene	1.57	0.41	mg/Kg dry	2.03	ND	77.4	40-140	23.6		30	
2,4,5-Trichlorophenol	1.58	0.41	mg/Kg dry	2.03	ND	78.0	30-130	28.3		30	
2,4,6-Trichlorophenol	1.64	0.41	mg/Kg dry	2.03	ND	80.7	30-130	25.2		30	
Atrazine	1.74	0.82	mg/Kg dry	2.03	ND	85.9	40-140	25.1		30	
Surrogate: 2-Fluorophenol	*6.36*		mg/Kg dry	8.11		78.5	30-130				
Surrogate: Phenol-d6	*6.72*		mg/Kg dry	8.11		82.8	30-130				
Surrogate: Nitrobenzene-d5	*3.51*		mg/Kg dry	4.06		86.5	30-130				
Surrogate: 2-Fluorobiphenyl	*3.53*		mg/Kg dry	4.06		87.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.07*		mg/Kg dry	8.11		87.2	30-130				
Surrogate: p-Terphenyl-d14	*4.15*		mg/Kg dry	4.06		102	30-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143887 - SW-846 3546										
Blank (B143887-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
No TICs Found	0.0		mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143840 - SW-846 7471										
Blank (B143840-BLK1)				Prepared: 03/09/16 Analyzed: 03/14/16						
Mercury	ND	25	µg/kg wet							
LCS (B143840-BS1)				Prepared: 03/09/16 Analyzed: 03/14/16						
Mercury	7220	720	µg/kg wet	7100		102	73.7-126.3			
LCS Dup (B143840-BSD1)				Prepared: 03/09/16 Analyzed: 03/14/16						
Mercury	7640	720	µg/kg wet	7100		108	73.7-126.3	5.63	30	
Duplicate (B143840-DUP1)		**Source: 16C0347-11**		Prepared: 03/09/16 Analyzed: 03/14/16						
Mercury	55.0	28	µg/kg dry		62.9			13.4	35	
Matrix Spike (B143840-MS1)		**Source: 16C0347-11**		Prepared: 03/09/16 Analyzed: 03/14/16						
Mercury	248	29	µg/kg dry	194	62.9	95.5	75-125			
Batch B144121 - SW-846 3050B										
Blank (B144121-BLK1)				Prepared: 03/12/16 Analyzed: 03/14/16						
Antimony	ND	2.7	mg/Kg wet							
Arsenic	ND	0.25	mg/Kg wet							
Beryllium	ND	0.34	mg/Kg wet							
Chromium	ND	6.2	mg/Kg wet							
Copper	ND	6.2	mg/Kg wet							
Iron	ND	12	mg/Kg wet							
Lead	ND	2.5	mg/Kg wet							
Manganese	ND	6.5	mg/Kg wet							
Nickel	ND	6.2	mg/Kg wet							
Selenium	ND	1.0	mg/Kg wet							
Silver	ND	0.11	mg/Kg wet							
Thallium	ND	0.080	mg/Kg wet							
Zinc	0.26	12	mg/Kg wet							J, B
Cadmium	ND	0.48	mg/Kg wet							
LCS (B144121-BS1)				Prepared: 03/12/16 Analyzed: 03/14/16						
Antimony	96.1	22	mg/Kg wet	105		91.5	0-210.3			
Arsenic	104	2.0	mg/Kg wet	98.5		105	77.8-122.1			
Beryllium	72.7	2.7	mg/Kg wet	66.0		110	82.3-117.7			
Chromium	160	50	mg/Kg wet	182		87.7	78.7-120.6			
Copper	98.3	50	mg/Kg wet	106		92.8	80.4-119.6			
Iron	10200	100	mg/Kg wet	14400		71.0	46.8-153			
Lead	120	20	mg/Kg wet	130		92.5	82.4-117.8			
Manganese	366	52	mg/Kg wet	410		89.2	80.8-119.2			
Nickel	140	50	mg/Kg wet	149		93.7	82.2-117.8			
Selenium	169	8.4	mg/Kg wet	154		110	77.1-122.3			
Silver	41.8	0.88	mg/Kg wet	40.9		102	74.3-125.4			
Thallium	176	0.64	mg/Kg wet	175		101	78.2-121.6			
Zinc	211	100	mg/Kg wet	191		111	79.7-120.8			
Cadmium	160	3.8	mg/Kg wet	146		109	81.9-118.2			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B144121 - SW-846 3050B											
LCS Dup (B144121-BSD1)				Prepared: 03/12/16 Analyzed: 03/14/16							
Antimony	100	22	mg/Kg wet	105		95.3		0-210.3	4.04	30	
Arsenic	111	2.0	mg/Kg wet	98.5		112		77.8-122.1	6.45	30	
Beryllium	79.9	2.7	mg/Kg wet	66.0		**121**	*	82.3-117.7	9.42	30	L-07
Chromium	178	50	mg/Kg wet	182		98.0		78.7-120.6	11.1	30	
Copper	109	50	mg/Kg wet	106		103		80.4-119.6	10.1	30	
Iron	11400	100	mg/Kg wet	14400		79.3		46.8-153	11.1	30	
Lead	132	20	mg/Kg wet	130		102		82.4-117.8	9.66	30	
Manganese	417	52	mg/Kg wet	410		102		80.8-119.2	13.1	30	
Nickel	151	50	mg/Kg wet	149		101		82.2-117.8	7.82	30	
Selenium	182	8.4	mg/Kg wet	154		118		77.1-122.3	7.51	30	
Silver	44.1	0.88	mg/Kg wet	40.9		108		74.3-125.4	5.32	30	
Thallium	186	0.64	mg/Kg wet	175		106		78.2-121.6	5.43	30	
Zinc	234	100	mg/Kg wet	191		**122**	*	79.7-120.8	9.98	30	L-07
Cadmium	169	3.8	mg/Kg wet	146		116		81.9-118.2	5.93	30	
Duplicate (B144121-DUP1)		**Source: 16C0347-01**		Prepared: 03/12/16 Analyzed: 03/14/16							
Antimony	0.0379	3.2	mg/Kg dry		0.0365				3.71	35	J
Arsenic	1.38	0.29	mg/Kg dry		1.93				33.0	35	
Beryllium	0.328	0.40	mg/Kg dry		0.384				15.8	35	J
Chromium	13.7	7.3	mg/Kg dry		14.6				6.21	35	
Copper	5.81	7.3	mg/Kg dry		8.21				34.2	35	J
Iron	23800	15	mg/Kg dry		26700				11.6	35	
Lead	11.9	2.9	mg/Kg dry		12.1				1.78	35	
Manganese	80.3	7.6	mg/Kg dry		159				**65.8**	* 35	R-02
Nickel	3.76	7.3	mg/Kg dry		3.53				6.41	35	J
Selenium	0.313	1.2	mg/Kg dry		0.353				11.9	35	J
Silver	0.0480	0.13	mg/Kg dry		0.0493				2.59	35	J
Thallium	0.132	0.094	mg/Kg dry		0.122				7.78	35	
Zinc	17.7	15	mg/Kg dry		23.7				29.0	35	
Cadmium	ND	0.56	mg/Kg dry		ND				NC	35	
Matrix Spike (B144121-MS1)		**Source: 16C0347-01**		Prepared: 03/12/16 Analyzed: 03/14/16							
Antimony	11.1	12	mg/Kg dry	28.7	0.0365	**38.6**	*	75-125			J, MS-07
Arsenic	31.6	1.1	mg/Kg dry	28.7	1.93	103		75-125			
Beryllium	33.8	1.6	mg/Kg dry	28.7	0.384	116		75-125			
Chromium	40.1	29	mg/Kg dry	28.7	14.6	88.8		75-125			
Copper	33.2	29	mg/Kg dry	28.7	8.21	86.9		75-125			
Iron	23100	57	mg/Kg dry	28.7	26700	**-12400**	*	75-125			MS-19
Lead	46.3	11	mg/Kg dry	28.7	12.1	119		75-125			
Manganese	97.5	30	mg/Kg dry	28.7	159	**-215**	*	75-125			MS-19
Nickel	30.7	29	mg/Kg dry	28.7	3.53	94.6		75-125			
Selenium	34.2	4.8	mg/Kg dry	28.7	0.353	119		75-125			
Silver	31.2	0.51	mg/Kg dry	28.7	0.0493	109		75-125			
Thallium	31.1	0.37	mg/Kg dry	28.7	0.122	108		75-125			
Zinc	55.2	57	mg/Kg dry	28.7	23.7	110		75-125			J
Cadmium	33.0	2.2	mg/Kg dry	28.7	ND	115		75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143917 - SM21-22 4500 NH3 C Modified										
Blank (B143917-BLK1)				Prepared: 03/10/16 Analyzed: 03/11/16						
Ammonia as N	ND	30	mg/Kg wet							
LCS (B143917-BS1)				Prepared: 03/10/16 Analyzed: 03/11/16						
Ammonia as N	480	30	mg/Kg wet	500		95.2	82-106			
LCS Dup (B143917-BSD1)				Prepared: 03/10/16 Analyzed: 03/11/16						
Ammonia as N	480	30	mg/Kg wet	500		95.2	82-106	0.00	8.24	
Duplicate (B143917-DUP1)	**Source: 16C0347-04**			Prepared: 03/10/16 Analyzed: 03/11/16						
Ammonia as N	250	40	mg/Kg dry		260			5.28	34.8	
Duplicate (B143917-DUP2)	**Source: 16C0347-16**			Prepared: 03/10/16 Analyzed: 03/11/16						
Ammonia as N	67	29	mg/Kg dry		70			4.09	34.8	
Matrix Spike (B143917-MS1)	**Source: 16C0347-04**			Prepared: 03/10/16 Analyzed: 03/11/16						
Ammonia as N	460	36	mg/Kg dry	242	260	82.3	71.6-116			
Matrix Spike (B143917-MS2)	**Source: 16C0347-16**			Prepared: 03/10/16 Analyzed: 03/11/16						
Ammonia as N	270	31	mg/Kg dry	204	70	98.6	71.6-116			
Batch B143918 - SM 21-22 4500 NO3 F Modified										
Blank (B143918-BLK1)				Prepared & Analyzed: 03/10/16						
Nitrate as N	ND	2.5	mg/Kg wet							
LCS (B143918-BS1)				Prepared & Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		101	88.9-111			
LCS Dup (B143918-BSD1)				Prepared & Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		102	88.9-111	0.394	5.66	
Duplicate (B143918-DUP1)	**Source: 16C0347-05**			Prepared & Analyzed: 03/10/16						
Nitrate as N	ND	2.8	mg/Kg dry		ND			NC	26.4	
Duplicate (B143918-DUP2)	**Source: 16C0347-15**			Prepared & Analyzed: 03/10/16						
Nitrate as N	ND	2.7	mg/Kg dry		ND			NC	26.4	
Matrix Spike (B143918-MS1)	**Source: 16C0347-05**			Prepared: 03/10/16 Analyzed: 03/11/16						
Nitrate as N	200	2.8	mg/Kg dry	222	ND	90.0	55.9-136			
Matrix Spike (B143918-MS2)	**Source: 16C0347-15**			Prepared: 03/10/16 Analyzed: 03/11/16						
Nitrate as N	190	2.6	mg/Kg dry	210	ND	92.5	55.9-136			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B144082 - ASTM D516-07 Modified										
Blank (B144082-BLK1)				Prepared & Analyzed: 03/14/16						
Sulfate	ND	200	mg/Kg wet							
LCS (B144082-BS1)				Prepared & Analyzed: 03/14/16						
Sulfate	2000	200	mg/Kg wet	2000		101	83.8-123			
LCS Dup (B144082-BSD1)				Prepared & Analyzed: 03/14/16						
Sulfate	2000	200	mg/Kg wet	2000		102	83.8-123	1.48	8.27	
Duplicate (B144082-DUP1)		**Source: 16C0347-10**		Prepared & Analyzed: 03/14/16						
Sulfate	ND	230	mg/Kg dry		ND			NC	18	
Duplicate (B144082-DUP2)		**Source: 16C0347-16**		Prepared & Analyzed: 03/14/16						
Sulfate	ND	450	mg/Kg dry		ND			NC	18	W-06
Matrix Spike (B144082-MS1)		**Source: 16C0347-09**		Prepared & Analyzed: 03/14/16						
Sulfate	11000	1200	mg/Kg dry	12000	ND	95.3	37.4-150			W-06
Matrix Spike (B144082-MS2)		**Source: 16C0347-16**		Prepared & Analyzed: 03/14/16						
Sulfate	4400	450	mg/Kg dry	4490	ND	98.7	37.4-150			W-06

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
W-06	Elevated method reporting limit due to intense color of sample

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SM21-22 4500 NH3 C Modified in Soil	
Ammonia as N	NC
SW-846 6020A/B in Soil	
Antimony	NY,NC
Arsenic	NY,VA,NH,NC
Beryllium	VA,NY,NH,NC
Chromium	NY,NC
Copper	NY,NC
Iron	NY,NC
Lead	NY,NC
Manganese	NY,NC
Nickel	NY,NC
Selenium	NY,VA,NH,NC
Silver	NY,NC
Thallium	VA,NY,NH,NC
Zinc	NY,NC
Cadmium	NY,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	NC
Acetone	NC
Benzene	NC
Benzene	NC
Bromobenzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromoform	NC
Bromomethane	NC
Bromomethane	NC
2-Butanone (MEK)	NC
2-Butanone (MEK)	NC
Carbon Disulfide	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroethane	NC
Chloroform	NC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Chloroform	NC
Chloromethane	NC
Chloromethane	NC
Cyclohexane	NC
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
1,2-Dichloropropane	NC
cis-1,3-Dichloropropene	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
1,4-Dioxane	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
Isopropylbenzene (Cumene)	NC
Methyl Acetate	NC
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methyl tert-Butyl Ether (MTBE)	NC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Methylene Chloride	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
Naphthalene	NC
Styrene	NC
Styrene	NC
1,1,2,2-Tetrachloroethane	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Tetrachloroethylene	NC
Toluene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
Trichlorofluoromethane (Freon 11)	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	NC
Vinyl Chloride	NC
m+p Xylene	NC
m+p Xylene	NC
o-Xylene	NC
o-Xylene	NC
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
Atrazine	ME,NC
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

16C0347

Company Name: ATC Associates
Address: 2725 E. Millbrook Rd.
Raleigh, NC
Attention: Justin Ballard
Project Location: Raleigh, NC
Sampled By: A.McMillan & R.Harrell

Project Proposal Provided? (for billing purposes)
☐ yes _____ proposal date

Telephone: 919-871-0999
Project # Old Raleigh #9
Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE
Fax #
Email: Justin.Ballard@atcassocaiates.com
Format: ◆ PDF ◆ EXCEL ☐ GIS
☐ OTHER
☐ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs 8260 + TICs	8260 SIM (1,4-dioxane)	SVOCs by 8270 + TICs	Inorganic hazardous substances by 200.7/200.8	mercury by 7470/7471	ammonia and nitrate by SM 4500	sulfate by ASTM D516	# of Containers	** Preservation	***Container Code
01	SB-7 (3.5)	03/7/16	1600		x	S		X	X	X	X	X	X	X			
02	SB-7 (12.5)	03/7/16	1615		x	S		X	X	X	X	X	X	X			
03	SB-7 (5-10)	03/7/16	1625	X	x	S		X	X	X	X	X	X	X			
04	SB-8 (3.5)	03/8/16	0830		x	S											
05	SB-8 (10)	03/8/16	0850		x	S											
06	SB-8 (13)	03/8/16	0900		x	S											
07	SB-8 (5-10)	03/8/16	0905	X	x	S											
08	SB-9 (4)	03/8/16	1005		x	S		X	X	X	X	X	X	X			
09	SB-9 (5)	03/8/16	1015		x	S		X	X	X	X	X	X	X			
10	SB-9 (13.5)	03/8/16	1025		x	S		X	X	X	X	X	X	X			

Comments:
NCDENR Landfill

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time: 3/8/16 1557
Received by: (signature) Brent Nadler	Date/Time: 3/8/16 1957
Relinquished by: (signature) Brent Nadler	Date/Time: 3/8/16 1800
Received by: (signature) 3.0 Paul	Date/Time: 3.9.16 9:30

Turnaround †
◉ 5-Day
○ 7 Day
○ 10-Day
RUSH †
○ †24-Hr ○ †48-Hr
○ †72-Hr ○ †4-Day
† Require lab approval

Detection Limit Requirements
North Carolina
☑ 2L
☐ GWPC
☐ SWSL
☑ IHSB X Contact PM X
☑ Other

Program Information
☐ DSCA
☐ SWS Landfill
◉ Other:
☐ IHSB Orphaned Landfill
☐ UST
☐ REC

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

Table of Contents

Rev 11.09.2012

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1600347

Company Name: ATC Associates
Address: 2725 E. Millbrook Rd.
Raleigh, NC
Attention: Justin Ballard
Project Location: Raleigh, NC
Sampled By: A.McMillan & R.Harrell

Project Proposal Provided? (for billing purposes)
☐ yes _____ proposal date

Telephone: 919-871-0999
Project # Old Raleigh #9
Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE
Fax #
Email: Justin.Ballard@atcassocaiates.com
Format: ◆ PDF ◆ EXCEL ☐ GIS
☐ OTHER
☐ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs 8260 + TICs	8260 SIM (1,4-dioxane)	SVOCs by 8270 + TICs	Inorganic hazardous substances by 200.7/200.8	mercury by 7470/7471	ammonia and nitrate by SM 4500	sulfate by ASTM D516	# of Containers	** Preservation	***Container Code
11	SB- 10 (5)	03/8/16	1120		x	S		X	X	X	X	X	X	X			
12	SB- 10 (10)	03/8/16	1130		x	S		X									
13	SB- 10 (12.5)	03/8/16	1135		x	S		X									
14	SB- 11 (8)	03/8/16	1317		x	S		X	X	X	X	X	X	X			
15	SB- 11 (10)	03/8/16	1325		x	S		X	X	X	X	X	X	X			
16	SB- 11 (12.5)	03/8/16	1330		x	S		X	X	X	X	X	X	X			
17	Trip Blank 3	~~03/ /16~~			—	DI		X	X								
	SB-	03/ /16			x	S											
	SB-	03/ /16			x	S											
	SB-	03/ /16			x	S											

Comments:
NCDENR Landfill

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time: 3/8/16 1557
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◉ 5-Day
○ 7 Day
○ 10-Day
RUSH †
○ †24-Hr ○ †48-Hr
○ †72-Hr ○ †4-Day
† Require lab approval

Detection Limit Requirements
North Carolina
☑ 2L
☐ GWPC
☐ SWSL
☑ IHSB
☑ Other Contact pm

Program Information
☐ DSCA
☐ SWS Landfill
◉ Other:
☐ IHSB Orphaned Landfill
☐ UST
☐ REC

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

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Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: ATC Raleigh **RECEIVED BY**: PB **DATE**: 3/9/2016

1) Was the chain(s) of custody relinquished and signed? **Yes** x **No** ____ **No COC Incl.**

2) Does the chain agree with the samples? **Yes** x **No** ____

If not, explain:

3) Are all the samples in good condition? **Yes** x **No** ____

If not, explain:

4) How were the samples received:

On Ice x Direct from Sampling ____ Ambient ____ In Cooler(s) x

Were the samples received in Temperature Compliance of (2-6°C) ? **Yes** x **No** ____ **N/A** ____

Temperature °C by Temp blank 3 Temperature °C by Temp gun ____

5) Are there Dissolved samples for the lab to filter? **Yes** ____ **No** x

Who was notified ____ Date ____ Time ____

6) Are there any RUSH or SHORT HOLDING TIME samples? **Yes** ____ **No** x

Who was notified ____ Date ____ Time ____

7) Location where samples are stored: Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) Do all samples have the proper Acid pH: **Yes** ____ **No** ____ **N/A** x

9) Do all samples have the proper Base pH: **Yes** ____ **No** ____ **N/A** x

10) Was the PC notified of any discrepancies with the CoC vs the samples: **Yes** ____ **N/A** x

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			16 oz amber	
500 mL Amber			8 oz amber/clear jar	16 Ambers
250 mL Amber (8oz amber)			4 oz amber/clear jar	16 Ambers
1 Liter Plastic			2 oz amber/clear jar	
500 mL Plastic			Plastic Bag / Ziploc	
250 mL plastic			SOC Kit	
40 mL Vial - type listed below	54		Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

40 mL vials:	# HCl		# Methanol	18
	# Bisulfate	36	# DI Water	
	# Thiosulfate		Unpreserved	

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** PB **Date/Time: 3/9/16**

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 14, 2016

Justin Ballard
ATC Group Services LLC - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604

Project Location: Raleigh, NC
Client Job Number:
Project Number: Old Raleigh #9
Laboratory Work Order Number: 16C0305

Enclosed are results of analyses for samples received by the laboratory on March 7, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

Table of Contents

Sample Summary 5

Case Narrative 10

Sample Results 13

16C0305-01 13

16C0305-02 22

16C0305-03 31

16C0305-04 40

16C0305-05 49

16C0305-06 58

16C0305-07 67

16C0305-08 76

16C0305-09 85

16C0305-10 94

16C0305-11 103

16C0305-12 112

16C0305-13 121

16C0305-14 130

16C0305-15 139

16C0305-16 141

Sample Preparation Information 143

QC Data 148

Volatile Organic Compounds by GC/MS 148

B143856 148

B143867 151

B143969 154

Table of Contents (continued)

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) 159

B143856 159

B143867 159

B143969 159

Volatile Organic Compounds by GC/MS (SIM) 160

B144066 160

B144068 160

Semivolatile Organic Compounds by GC/MS 161

B143797 161

B143804 165

B143797 170

B143804 170

Metals Analyses (Total) 171

B143826 171

B143829 171

B143868 172

B143883 172

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 174

B143793 174

B143794 174

B143821 174

B143822 174

B143849 175

B143852 175

B143862 175

Table of Contents (continued)

B143886 176

B143918 176

B144081 176

Flag/Qualifier Summary 178

Certifications 179

Chain of Custody/Sample Receipt 186

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Group Services LLC - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 3/14/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: Old Raleigh #9

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0305

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-4 (4.5)	16C0305-01	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-5 (4)	16C0305-02	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-5 (5)	16C0305-03	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ATC Group Services LLC - Raleigh NC
2725 East Millbrook Road, Ste 121
Raleigh, NC 27604
ATTN: Justin Ballard

REPORT DATE: 3/14/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: Old Raleigh #9

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0305

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-5 (12.5)	16C0305-04	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-1 (3.5)	16C0305-05	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-1 (10)	16C0305-06	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

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2725 East Millbrook Road, Ste 121
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ATTN: Justin Ballard

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ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0305

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
DUP-A	16C0305-07	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
EB-1	16C0305-08	Equipment Blank Water		ASTM D516-07	
				SM 21-22 4500 NO3 F	
				SM19-22 4500 NH3 C	
				SW-846 6020A/B	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-1 (5-10)	16C0305-09	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-4 (5-10)	16C0305-10	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

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ATTN: Justin Ballard

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PROJECT NUMBER: Old Raleigh #9

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16C0305

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Raleigh, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
SB-4 (10-15)	16C0305-11	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-6 (7.5)	16C0305-12	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
SB-6 (10)	16C0305-13	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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2725 East Millbrook Road, Ste 121
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SB-6 (12.5)	16C0305-14	Soil		ASTM D516-07 Modified	
				SM 21-22 4500 NO3 F Modified	
				SM 2540G	
				SM21-22 4500 NH3 C Modified	
				SW-846 6020A/B	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank Water	16C0305-15	Trip Blank Water		SW-846 8260B	
Trip Blank Soil	16C0305-16	Trip Blank Soil		SW-846 8260B	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ASTM D516-07 Modified

Qualifications:

W-06

Elevated method reporting limit due to intense color of sample

Analyte & Samples(s) Qualified:

Sulfate

16C0305-02[SB-5 (4)], 16C0305-05[SB-1 (3.5)], 16C0305-06[SB-1 (10)], 16C0305-07[DUP-A], 16C0305-09[SB-1 (5-10)], 16C0305-10[SB-4 (5-10)], 16C0305-11[SB-4 (10-15)], B143849-DUP2, B143849-MS2

SW-846 8260B

Qualifications:

L-02

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)

B143856-BS1, B143856-BSD1

2-Hexanone (MBK)

B143856-BS1, B143856-BSD1

Acetone

B143856-BS1, B143856-BSD1

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane

16C0305-01[SB-4 (4.5)], 16C0305-02[SB-5 (4)], 16C0305-03[SB-5 (5)], 16C0305-04[SB-5 (12.5)], 16C0305-05[SB-1 (3.5)], 16C0305-06[SB-1 (10)], 16C0305-07[DUP-A], 16C0305-09[SB-1 (5-10)], 16C0305-10[SB-4 (5-10)], 16C0305-11[SB-4 (10-15)], 16C0305-12[SB-6 (7.5)], 16C0305-13[SB-6 (10)], 16C0305-14[SB-6 (12.5)], 16C0305-16[Trip Blank Soil], B143867-BLK1, B143867-BS1, B143867-BSD1, B143969-BLK1, B143969-BS1, B143969-BSD1

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK)

16C0305-14[SB-6 (12.5)], 16C0305-16[Trip Blank Soil], B143969-BLK1, B143969-BS1, B143969-BSD1

Acetone

16C0305-14[SB-6 (12.5)], 16C0305-16[Trip Blank Soil], B143969-BLK1, B143969-BS1, B143969-BSD1

Bromomethane

16C0305-08[EB-1], 16C0305-15[Trip Blank Water], B143856-BLK1, B143856-BS1, B143856-BSD1

Methyl Acetate

16C0305-08[EB-1], 16C0305-15[Trip Blank Water], B143856-BLK1, B143856-BS1, B143856-BSD1

SW-846 8260C

Qualifications:

S-17

Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.

Analyte & Samples(s) Qualified:

1,4-Dioxane-d8

16C0305-01[SB-4 (4.5)], 16C0305-10[SB-4 (5-10)], 16C0305-13[SB-6 (10)]

SW-846 8270D

Qualifications:

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam

16C0305-08[EB-1], B143804-BLK1, B143804-BS1, B143804-BSD1

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L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

4-Nitrophenol
B143797-BS1

S-07

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol
16C0305-08[EB-1]

p-Terphenyl-d14
16C0305-03[SB-5 (5)], 16C0305-12[SB-6 (7.5)], 16C0305-13[SB-6 (10)], 16C0305-14[SB-6 (12.5)]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene
B143797-BLK1, B143797-BS1, B143797-BSD1, B143804-BLK1, B143804-BS1, B143804-BSD1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol
16C0305-01[SB-4 (4.5)], 16C0305-02[SB-5 (4)], 16C0305-03[SB-5 (5)], 16C0305-08[EB-1], 16C0305-10[SB-4 (5-10)], 16C0305-11[SB-4 (10-15)], 16C0305-12[SB-6 (7.5)], 16C0305-13[SB-6 (10)], 16C0305-14[SB-6 (12.5)], B143797-BLK1, B143797-BS1, B143797-BSD1, B143804-BLK1, B143804-BS1, B143804-BSD1

Benzaldehyde
16C0305-01[SB-4 (4.5)], 16C0305-02[SB-5 (4)], 16C0305-03[SB-5 (5)], 16C0305-04[SB-5 (12.5)], 16C0305-05[SB-1 (3.5)], 16C0305-06[SB-1 (10)], 16C0305-07[DUP-A], 16C0305-08[EB-1], 16C0305-09[SB-1 (5-10)], 16C0305-10[SB-4 (5-10)], 16C0305-11[SB-4 (10-15)], 16C0305-12[SB-6 (7.5)], 16C0305-13[SB-6 (10)], 16C0305-14[SB-6 (12.5)], B143797-BLK1, B143797-BS1, B143797-BSD1, B143804-BLK1, B143804-BS1, B143804-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (4.5)
Sampled: 3/7/2016 10:25
Sample ID: 16C0305-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.089	0.23	0.053	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Benzene	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Bromobenzene	ND	0.0046	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Bromochloromethane	ND	0.0046	0.0032	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Bromodichloromethane	ND	0.0046	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Bromoform	ND	0.0046	0.0032	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Bromomethane	ND	0.023	0.0039	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
2-Butanone (MEK)	ND	0.091	0.040	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Carbon Disulfide	ND	0.014	0.0080	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Carbon Tetrachloride	ND	0.0046	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Chlorobenzene	0.030	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Chlorodibromomethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Chloroethane	ND	0.046	0.0034	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Chloroform	ND	0.0091	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Chloromethane	ND	0.023	0.0021	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Cyclohexane	ND	0.0046	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0046	0.0025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,2-Dichlorobenzene	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,3-Dichlorobenzene	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,4-Dichlorobenzene	0.022	0.0046	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.046	0.0030	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,1-Dichloroethane	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,2-Dichloroethane	ND	0.0046	0.0030	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,1-Dichloroethylene	ND	0.0091	0.0025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
cis-1,2-Dichloroethylene	ND	0.0046	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
trans-1,2-Dichloroethylene	ND	0.0046	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,2-Dichloropropane	ND	0.0046	0.0030	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
cis-1,3-Dichloropropene	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
trans-1,3-Dichloropropene	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,4-Dioxane	ND	0.23	0.13	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Ethylbenzene	ND	0.0046	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
2-Hexanone (MBK)	ND	0.046	0.025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Isopropylbenzene (Cumene)	0.0034	0.0046	0.0016	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Methyl Acetate	ND	0.0046	0.0037	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0091	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Methylene Chloride	ND	0.046	0.016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.046	0.017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Styrene	ND	0.0046	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,1,2,2-Tetrachloroethane	ND	0.0023	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Tetrachloroethylene	ND	0.0046	0.0030	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Toluene	ND	0.0046	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,2,3-Trichlorobenzene	ND	0.0046	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,2,4-Trichlorobenzene	ND	0.0046	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (4.5)
Sampled: 3/7/2016 10:25
Sample ID: 16C0305-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0046	0.0023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,1,2-Trichloroethane	ND	0.0046	0.0027	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Trichloroethylene	ND	0.0046	0.0023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Trichlorofluoromethane (Freon 11)	ND	0.023	0.0025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.023	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
Vinyl Chloride	ND	0.023	0.0025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
m+p Xylene	ND	0.0091	0.0039	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF
o-Xylene	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 11:33	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.9	70-130		3/9/16 11:33
Toluene-d8	95.1	70-130		3/9/16 11:33
4-Bromofluorobenzene	102	70-130		3/9/16 11:33

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Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene, 1-ethyl-2,4-dimethyl-	0.018	mg/Kg dry	164630	10.6	1	000874-41-9	95	SW-846 8260C	3/9/16	3/9/16 11:33	MFF

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Date Received: 3/7/2016
Field Sample #: SB-4 (4.5)
Sampled: 3/7/2016 10:25
Sample ID: 16C0305-01
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0046	0.0033	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 19:10	EEH

Surrogates	% Recovery		Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	**245**	*	40-160	S-17		3/11/16 19:10

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (4.5)
Sampled: 3/7/2016 10:25
Sample ID: 16C0305-01
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	1.5	0.74	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:51	CMR
Benzaldehyde	ND	0.74	0.70	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 19:51	CMR
Biphenyl	ND	1.5	0.92	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:51	CMR
Caprolactam	ND	0.74	0.56	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:51	CMR
Acenaphthene	ND	0.37	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Acenaphthylene	ND	0.37	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Acetophenone	ND	0.74	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Anthracene	ND	0.37	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Benzo(a)anthracene	ND	0.37	0.097	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Benzo(a)pyrene	ND	0.37	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Benzo(b)fluoranthene	ND	0.37	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Benzo(g,h,i)perylene	ND	0.37	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Benzo(k)fluoranthene	ND	0.37	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Bis(2-chloroethoxy)methane	ND	0.74	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Bis(2-chloroethyl)ether	ND	0.74	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.74	0.29	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
4-Bromophenylphenylether	ND	0.74	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Butylbenzylphthalate	ND	0.74	0.18	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Carbazole	ND	0.37	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
4-Chloroaniline	ND	1.4	0.17	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
4-Chloro-3-methylphenol	ND	1.4	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2-Chloronaphthalene	ND	0.74	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2-Chlorophenol	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
4-Chlorophenylphenylether	ND	0.74	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Chrysene	ND	0.37	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Dibenz(a,h)anthracene	ND	0.37	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Dibenzofuran	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Di-n-butylphthalate	ND	0.74	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
3,3-Dichlorobenzidine	ND	0.37	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2,4-Dichlorophenol	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Diethylphthalate	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2,4-Dimethylphenol	ND	0.74	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Dimethylphthalate	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
4,6-Dinitro-2-methylphenol	ND	0.74	0.70	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2,4-Dinitrophenol	ND	1.4	0.42	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2,4-Dinitrotoluene	ND	0.74	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2,6-Dinitrotoluene	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Di-n-octylphthalate	ND	0.74	0.39	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Fluoranthene	ND	0.37	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Fluorene	ND	0.37	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Hexachlorobenzene	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Hexachlorobutadiene	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Hexachlorocyclopentadiene	ND	0.74	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Hexachloroethane	ND	0.74	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (4.5)
Sampled: 3/7/2016 10:25

Sample ID: 16C0305-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.37	0.26	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Isophorone	ND	0.74	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2-Methylnaphthalene	ND	0.37	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2-Methylphenol	ND	0.74	0.18	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
3/4-Methylphenol	ND	0.74	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Naphthalene	0.19	0.37	0.19	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2-Nitroaniline	ND	0.74	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
3-Nitroaniline	ND	0.74	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
4-Nitroaniline	ND	0.74	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Nitrobenzene	ND	0.74	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2-Nitrophenol	ND	0.74	0.19	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
4-Nitrophenol	ND	1.4	0.16	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 11:45	CMR
N-Nitrosodiphenylamine	ND	0.74	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
N-Nitrosodi-n-propylamine	ND	0.74	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Pentachlorophenol	ND	0.74	0.18	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Phenanthrene	ND	0.37	0.19	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Phenol	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Pyrene	ND	0.37	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.74	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2,4,5-Trichlorophenol	ND	0.74	0.17	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
2,4,6-Trichlorophenol	ND	0.74	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:45	CMR
Atrazine	ND	1.5	1.2	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:51	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	79.4	30-130		3/11/16 11:45
Phenol-d6	84.6	30-130		3/11/16 11:45
Nitrobenzene-d5	85.1	30-130		3/11/16 11:45
2-Fluorobiphenyl	95.7	30-130		3/11/16 11:45
2,4,6-Tribromophenol	99.2	30-130		3/11/16 11:45
p-Terphenyl-d14	106	30-130		3/11/16 11:45

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (4.5)
Sampled: 3/7/2016 10:25

Sample ID: 16C0305-01

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/8/16	3/11/16 11:45	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (4.5)
Sampled: 3/7/2016 10:25

Sample ID: 16C0305-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	81	5.7	0.054	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:46	MJH
Arsenic	7.2	0.53	0.41	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:46	MJH
Beryllium	0.27	2.9	0.24	mg/Kg dry	20	J	SW-846 6020A/B	3/10/16	3/10/16 12:55	MJH
Chromium	100	13	0.84	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:46	MJH
Copper	9600	270	2.7	mg/Kg dry	100		SW-846 6020A/B	3/10/16	3/10/16 12:52	MJH
Iron	100000	110	47	mg/Kg dry	20		SW-846 6020A/B	3/10/16	3/10/16 12:55	MJH
Lead	19000	210	4.4	mg/Kg dry	200		SW-846 6020A/B	3/10/16	3/10/16 12:49	MJH
Manganese	520	14	0.18	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:46	MJH
Mercury	44	54	9.1	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/10/16 10:32	SCB
Nickel	5400	270	5.5	mg/Kg dry	100		SW-846 6020A/B	3/10/16	3/10/16 12:52	MJH
Selenium	ND	2.2	0.38	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:46	MJH
Silver	3.1	0.23	0.075	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:46	MJH
Thallium	0.094	0.17	0.048	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:46	MJH
Zinc	5300	530	8.3	mg/Kg dry	100		SW-846 6020A/B	3/10/16	3/10/16 12:52	MJH
Cadmium	46	1.0	0.046	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:46	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (4.5)
Sampled: 3/7/2016 10:25

Sample ID: 16C0305-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	410	62	33	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	4.8	4.7	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	380	260	mg/Kg dry	1		ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	45.3			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20
Sample ID: 16C0305-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Benzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Bromobenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Bromochloromethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Bromodichloromethane	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Bromoform	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Carbon Disulfide	ND	0.0062	0.0036	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Carbon Tetrachloride	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Chlorobenzene	0.00082	0.0021	0.00072	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Chlorodibromomethane	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Chloroethane	ND	0.021	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Chloroform	ND	0.0041	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Chloromethane	ND	0.010	0.00093	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Cyclohexane	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,1-Dichloroethane	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,2-Dichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,2-Dichloropropane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,4-Dioxane	ND	0.10	0.059	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Ethylbenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
2-Hexanone (MBK)	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Methyl Acetate	ND	0.0021	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Methylene Chloride	ND	0.021	0.0073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0078	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Styrene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Tetrachloroethylene	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Toluene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20
Sample ID: 16C0305-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Trichloroethylene	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF
o-Xylene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.2	70-130		3/9/16 12:00
Toluene-d8	95.1	70-130		3/9/16 12:00
4-Bromofluorobenzene	100	70-130		3/9/16 12:00

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20
Sample ID: 16C0305-02
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 12:00	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20
Sample ID: 16C0305-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 19:39	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	147	40-160		3/11/16 19:39

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20
Sample ID: 16C0305-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 20:17	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 20:17	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 20:17	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 20:17	CMR
Acenaphthene	0.19	0.21	0.062	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Acetophenone	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Benzo(b)fluoranthene	0.063	0.21	0.058	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Butylbenzylphthalate	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Carbazole	ND	0.21	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
4-Chloroaniline	ND	0.80	0.094	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
4-Chloro-3-methylphenol	ND	0.80	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2-Chlorophenol	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Chrysene	0.065	0.21	0.064	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Dibenzofuran	0.16	0.41	0.071	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Di-n-butylphthalate	ND	0.41	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Diethylphthalate	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Dimethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2,4-Dinitrophenol	ND	0.80	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2,4-Dinitrotoluene	ND	0.41	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2,6-Dinitrotoluene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Di-n-octylphthalate	ND	0.41	0.22	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Fluoranthene	0.22	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Fluorene	0.20	0.21	0.067	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Hexachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Hexachlorobutadiene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Hexachlorocyclopentadiene	ND	0.41	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20
Sample ID: 16C0305-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Isophorone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
4-Nitrophenol	ND	0.80	0.089	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 11:20	CMR
N-Nitrosodiphenylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Pentachlorophenol	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Phenanthrene	0.58	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Pyrene	0.21	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2,4,5-Trichlorophenol	ND	0.41	0.093	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 11:20	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 20:17	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	76.4	30-130		3/11/16 11:20
Phenol-d6	81.9	30-130		3/11/16 11:20
Nitrobenzene-d5	78.6	30-130		3/11/16 11:20
2-Fluorobiphenyl	95.6	30-130		3/11/16 11:20
2,4,6-Tribromophenol	90.6	30-130		3/11/16 11:20
p-Terphenyl-d14	106	30-130		3/11/16 11:20

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20
Sample ID: 16C0305-02
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/8/16	3/11/16 11:20	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20

Sample ID: 16C0305-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.11	3.1	0.030	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Arsenic	ND	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Beryllium	0.44	0.40	0.033	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Chromium	11	7.3	0.46	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Copper	3.4	7.3	0.075	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Iron	4900	15	6.4	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Lead	8.3	2.9	0.061	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Manganese	44	7.6	0.099	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Mercury	26	29	4.9	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/10/16 10:34	SCB
Nickel	4.6	7.3	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Silver	ND	0.13	0.041	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Thallium	0.050	0.093	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Zinc	6.4	15	0.23	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH
Cadmium	ND	0.55	0.025	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:49	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (4)
Sampled: 3/7/2016 11:20

Sample ID: 16C0305-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	50	36	19	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.7	2.7	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	1100	770	mg/Kg dry	5	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	81.6			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30
Sample ID: 16C0305-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Benzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Bromobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Bromodichloromethane	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Carbon Disulfide	ND	0.0065	0.0038	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Carbon Tetrachloride	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Chlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Chlorodibromomethane	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Chloroform	ND	0.0043	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Chloromethane	ND	0.011	0.00098	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Cyclohexane	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,1-Dichloroethane	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,4-Dioxane	ND	0.11	0.062	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Ethylbenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Methyl Acetate	ND	0.0022	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00098	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Methylene Chloride	ND	0.022	0.0077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0082	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Styrene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00098	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Toluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30
Sample ID: 16C0305-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Trichloroethylene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.00098	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF
o-Xylene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.7	70-130		3/9/16 12:28
Toluene-d8	94.9	70-130		3/9/16 12:28
4-Bromofluorobenzene	97.5	70-130		3/9/16 12:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30

Sample ID: 16C0305-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 12:28	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30
Sample ID: 16C0305-03
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0019	0.0022	0.0016	mg/Kg dry	1	J	SW-846 8260C	3/11/16	3/11/16 20:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	156	40-160		3/11/16 20:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30
Sample ID: 16C0305-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 20:43	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 20:43	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 20:43	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 20:43	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
4-Bromophenylphenylether	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Butylbenzylphthalate	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
4-Chloroaniline	ND	0.78	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
4-Chloro-3-methylphenol	ND	0.78	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2-Chloronaphthalene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
4-Chlorophenylphenylether	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Dibenzofuran	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Di-n-butylphthalate	ND	0.40	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
3,3-Dichlorobenzidine	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2,4-Dichlorophenol	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2,4-Dimethylphenol	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Hexachloroethane	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30
Sample ID: 16C0305-03
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2-Nitroaniline	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
4-Nitroaniline	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Nitrobenzene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
4-Nitrophenol	ND	0.78	0.088	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 12:09	CMR
N-Nitrosodiphenylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Pentachlorophenol	ND	0.40	0.097	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Phenol	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2,4,5-Trichlorophenol	ND	0.40	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
2,4,6-Trichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 12:09	CMR
Atrazine	ND	0.79	0.67	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 20:43	CMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	81.7		30-130		3/11/16 12:09
Phenol-d6	89.4		30-130		3/11/16 12:09
Nitrobenzene-d5	89.7		30-130		3/11/16 12:09
2-Fluorobiphenyl	106		30-130		3/11/16 12:09
2,4,6-Tribromophenol	107		30-130		3/11/16 12:09
p-Terphenyl-d14	**136**	*	30-130	S-07	3/11/16 12:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30

Sample ID: 16C0305-03

Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/8/16	3/11/16 12:09	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30

Sample ID: 16C0305-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	0.028	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Arsenic	ND	0.28	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Beryllium	0.42	0.37	0.031	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Chromium	7.0	6.9	0.44	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Copper	5.6	6.9	0.071	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Iron	3700	14	6.0	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Lead	5.0	2.8	0.057	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Manganese	20	7.2	0.093	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Mercury	32	26	4.4	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:35	SCB
Nickel	4.8	6.9	0.14	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Selenium	ND	1.2	0.20	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Silver	ND	0.12	0.039	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Thallium	0.048	0.088	0.025	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Zinc	8.7	14	0.22	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH
Cadmium	ND	0.52	0.024	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:51	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (5)
Sampled: 3/7/2016 11:30

Sample ID: 16C0305-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	33	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	3.0	2.9	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	240	160	mg/Kg dry	1		ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	83.8			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40
Sample ID: 16C0305-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.095	0.022	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Benzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Bromobenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Bromochloromethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Bromodichloromethane	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Bromoform	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Bromomethane	ND	0.0095	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
2-Butanone (MEK)	ND	0.038	0.017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Carbon Disulfide	ND	0.0057	0.0033	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Carbon Tetrachloride	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Chlorobenzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Chlorodibromomethane	ND	0.00095	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Chloroethane	ND	0.019	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Chloroform	ND	0.0038	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Chloromethane	ND	0.0095	0.00085	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Cyclohexane	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,2-Dibromoethane (EDB)	ND	0.00095	0.00095	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,1-Dichloroethane	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,2-Dichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,1-Dichloroethylene	ND	0.0038	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00085	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,2-Dichloropropane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
cis-1,3-Dichloropropene	ND	0.00095	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
trans-1,3-Dichloropropene	ND	0.00095	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,4-Dioxane	ND	0.095	0.054	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Ethylbenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
2-Hexanone (MBK)	ND	0.019	0.010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Methyl Acetate	ND	0.0019	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0038	0.00085	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Methylene Chloride	ND	0.019	0.0067	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Styrene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.00095	0.00085	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Tetrachloroethylene	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Toluene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,2,4-Trichlorobenzene	ND	0.0019	0.00076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40
Sample ID: 16C0305-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0019	0.00095	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,1,2-Trichloroethane	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Trichloroethylene	ND	0.0019	0.00095	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0095	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0095	0.00085	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
Vinyl Chloride	ND	0.0095	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
m+p Xylene	ND	0.0038	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF
o-Xylene	ND	0.0019	0.00066	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 12:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.6	70-130		3/9/16 12:56
Toluene-d8	95.0	70-130		3/9/16 12:56
4-Bromofluorobenzene	98.0	70-130		3/9/16 12:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40

Sample ID: 16C0305-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 12:56	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40
Sample ID: 16C0305-04
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0054	0.0019	0.0014	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 20:36	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	159	40-160		3/11/16 20:36

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40
Sample ID: 16C0305-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.40	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 21:08	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 21:08	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 21:08	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 21:08	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Bis(2-Ethylhexyl)phthalate	0.16	0.40	0.16	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Butylbenzylphthalate	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
4-Chloroaniline	ND	0.78	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
4-Chloro-3-methylphenol	ND	0.78	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2-Chloronaphthalene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Di-n-butylphthalate	ND	0.40	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Hexachloroethane	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40
Sample ID: 16C0305-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Nitrobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
4-Nitrophenol	ND	0.78	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
N-Nitrosodiphenylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Pentachlorophenol	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2,4,5-Trichlorophenol	ND	0.40	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Atrazine	ND	0.79	0.66	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 21:08	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	78.6	30-130		3/11/16 15:35
Phenol-d6	84.0	30-130		3/11/16 15:35
Nitrobenzene-d5	84.5	30-130		3/11/16 15:35
2-Fluorobiphenyl	91.9	30-130		3/11/16 15:35
2,4,6-Tribromophenol	77.4	30-130		3/11/16 15:35
p-Terphenyl-d14	99.8	30-130		3/11/16 15:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40
Sample ID: 16C0305-04
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
10,18-Bisnorabieta-5,7,9(10...	0.66	mg/Kg dry	278488	7.003	1	006566-19-4	99	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
1-Phenanthrenecarboxylic ac...	0.27	mg/Kg dry	127692	8.353	1	001740-19-8	99	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Docosane	0.45	mg/Kg dry	198493	13.039	1	000629-97-0	95	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
eicosane	0.37	mg/Kg dry	164829	13.626	1	000112-95-8	95	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Heneicosane	0.53	mg/Kg dry	234376	11.763	1	000629-94-7	95	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Heptadecane	0.18	mg/Kg dry	82257	8.468	1	000629-78-7	95	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
n-Hexadecanoic acid	19	mg/Kg dry	8066320	6.447	1	000057-10-3	98	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Octacosane	0.37	mg/Kg dry	162893	10.282	1	000630-02-4	90	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Octadecanoic acid	2.8	mg/Kg dry	1186520	7.053	1	000057-11-4	99	SW-846 8270D	3/8/16	3/11/16 15:35	CMR
Phenanthrene, 1-methyl-7-(1...	0.36	mg/Kg dry	166828	7.453	1	000483-65-8	99	SW-846 8270D	3/8/16	3/11/16 15:35	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40

Sample ID: 16C0305-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.1	0.029	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Arsenic	ND	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Beryllium	0.65	0.39	0.032	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Chromium	9.5	7.2	0.45	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Copper	7.8	7.2	0.074	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Iron	5900	14	6.3	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Lead	4.1	2.9	0.060	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Manganese	34	7.5	0.097	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Mercury	45	29	4.9	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:37	SCB
Nickel	6.1	7.2	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Silver	ND	0.13	0.041	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Thallium	0.066	0.092	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Zinc	15	14	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH
Cadmium	ND	0.55	0.025	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:54	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-5 (12.5)
Sampled: 3/7/2016 11:40

Sample ID: 16C0305-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	190	35	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.8	2.7	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	230	160	mg/Kg dry	1		ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	83.9			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (3.5)
Sampled: 3/7/2016 09:45
Sample ID: 16C0305-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Bromobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Carbon Disulfide	ND	0.0061	0.0036	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Chloroform	ND	0.0041	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Chloromethane	ND	0.010	0.00092	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Cyclohexane	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,4-Dioxane	ND	0.10	0.059	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Ethylbenzene	0.00090	0.0020	0.00081	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 13:23	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Methylene Chloride	ND	0.020	0.0072	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0077	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00092	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC | Sample Description: | Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (3.5) | Sampled: 3/7/2016 09:45

Sample ID: 16C0305-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.9	70-130		3/9/16 13:23
Toluene-d8	95.0	70-130		3/9/16 13:23
4-Bromofluorobenzene	101	70-130		3/9/16 13:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (3.5)
Sampled: 3/7/2016 09:45

Sample ID: 16C0305-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 13:23	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (3.5)
Sampled: 3/7/2016 09:45
Sample ID: 16C0305-05
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0029	0.0020	0.0015	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 21:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	133	40-160		3/11/16 21:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC | Sample Description: | Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (3.5) | Sampled: 3/7/2016 09:45

Sample ID: 16C0305-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 21:35	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 21:35	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 21:35	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 21:35	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Acetophenone	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Benzo(g,h,i)perylene	ND	0.21	0.090	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Bis(2-Ethylhexyl)phthalate	0.32	0.41	0.16	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Butylbenzylphthalate	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Carbazole	ND	0.21	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
4-Chloroaniline	ND	0.80	0.094	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
4-Chloro-3-methylphenol	ND	0.80	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2-Chlorophenol	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Di-n-butylphthalate	ND	0.41	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Diethylphthalate	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Dimethylphthalate	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2,4-Dinitrophenol	ND	0.80	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2,4-Dinitrotoluene	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2,6-Dinitrotoluene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Di-n-octylphthalate	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Hexachlorobenzene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Hexachlorobutadiene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Hexachlorocyclopentadiene	ND	0.41	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (3.5)
Sampled: 3/7/2016 09:45

Sample ID: 16C0305-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Isophorone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Naphthalene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
4-Nitrophenol	ND	0.80	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
N-Nitrosodiphenylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Pentachlorophenol	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2,4,5-Trichlorophenol	ND	0.41	0.093	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 21:35	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	77.8	30-130		3/11/16 16:01
Phenol-d6	80.6	30-130		3/11/16 16:01
Nitrobenzene-d5	80.6	30-130		3/11/16 16:01
2-Fluorobiphenyl	90.6	30-130		3/11/16 16:01
2,4,6-Tribromophenol	79.0	30-130		3/11/16 16:01
p-Terphenyl-d14	95.4	30-130		3/11/16 16:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (3.5)
Sampled: 3/7/2016 09:45
Sample ID: 16C0305-05
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
10,18-Bisnorabieta-8,11,13-...	0.23	mg/Kg dry	109416	6.81	1	032624-67-2	92	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Heptacosane	1.5	mg/Kg dry	699707	9.617	1	000593-49-7	98	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Naphthalene, 1,2,3,4-tetrah...	0.26	mg/Kg dry	129506	5.245	1	000483-77-2	97	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Octacosane	1.6	mg/Kg dry	767435	10.285	1	000630-02-4	97	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Octadecane	1.3	mg/Kg dry	603638	9.012	1	000593-45-3	91	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Pentadecane, 8-heptyl-	0.30	mg/Kg dry	140034	7.559	1	071005-15-7	91	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Sulfurous acid, butyl dodec...	1.8	mg/Kg dry	840603	11.759	1	1000309-17-9	91	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Tetracosane	1.9	mg/Kg dry	909015	11.002	1	000646-31-1	90	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Tetratetracontane	1.0	mg/Kg dry	480630	13.626	1	007098-22-8	90	SW-846 8270D	3/8/16	3/11/16 16:01	CMR
Tritetracontane	1.9	mg/Kg dry	887793	12.467	1	007098-21-7	91	SW-846 8270D	3/8/16	3/11/16 16:01	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (3.5)
Sampled: 3/7/2016 09:45

Sample ID: 16C0305-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.2	0.030	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Arsenic	0.37	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Beryllium	0.36	0.40	0.033	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Chromium	11	7.3	0.46	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Copper	4.2	7.3	0.076	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Iron	16000	15	6.4	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Lead	8.7	2.9	0.061	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Manganese	190	7.6	0.099	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Mercury	65	26	4.5	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:38	SCB
Nickel	3.7	7.3	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Silver	ND	0.13	0.042	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Thallium	0.082	0.094	0.027	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Zinc	11	15	0.23	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH
Cadmium	ND	0.56	0.025	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 11:57	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (3.5)
Sampled: 3/7/2016 09:45

Sample ID: 16C0305-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	110	34	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.9	2.8	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:11	JK
Sulfate	ND	1200	800	mg/Kg dry	5	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	82.9			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55
Sample ID: 16C0305-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.081	0.019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Benzene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Bromobenzene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Bromochloromethane	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Bromodichloromethane	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Bromoform	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Bromomethane	ND	0.0081	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
2-Butanone (MEK)	ND	0.033	0.014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Carbon Disulfide	ND	0.0049	0.0028	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Carbon Tetrachloride	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Chlorobenzene	0.00067	0.0016	0.00057	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Chlorodibromomethane	ND	0.00081	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Chloroethane	ND	0.016	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Chloroform	ND	0.0033	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Chloromethane	ND	0.0081	0.00073	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Cyclohexane	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0016	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,2-Dibromoethane (EDB)	ND	0.00081	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,4-Dichlorobenzene	0.00067	0.0016	0.00065	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,1-Dichloroethane	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,2-Dichloroethane	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,1-Dichloroethylene	ND	0.0033	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,2-Dichloropropane	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
cis-1,3-Dichloropropene	ND	0.00081	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
trans-1,3-Dichloropropene	ND	0.00081	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,4-Dioxane	ND	0.081	0.047	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Ethylbenzene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
2-Hexanone (MBK)	ND	0.016	0.0089	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Methyl Acetate	ND	0.0016	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0033	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Methylene Chloride	ND	0.016	0.0058	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.016	0.0062	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Styrene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.00081	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Tetrachloroethylene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Toluene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00049	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55
Sample ID: 16C0305-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0016	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00098	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Trichloroethylene	ND	0.0016	0.00081	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0081	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0081	0.00073	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
Vinyl Chloride	ND	0.0081	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
m+p Xylene	ND	0.0033	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF
o-Xylene	ND	0.0016	0.00057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 13:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.0	70-130		3/9/16 13:51
Toluene-d8	95.6	70-130		3/9/16 13:51
4-Bromofluorobenzene	98.0	70-130		3/9/16 13:51

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55
Sample ID: 16C0305-06
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 13:51	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55
Sample ID: 16C0305-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0086	0.0016	0.0012	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 21:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	155	40-160		3/11/16 21:33

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55
Sample ID: 16C0305-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:01	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 22:01	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:01	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:01	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Benzo(b)fluoranthene	ND	0.20	0.057	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Benzo(g,h,i)perylene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
4-Bromophenylphenylether	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Butylbenzylphthalate	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
4-Chloroaniline	ND	0.78	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
4-Chloro-3-methylphenol	ND	0.78	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2-Chloronaphthalene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
4-Chlorophenylphenylether	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Dibenzofuran	ND	0.40	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Di-n-butylphthalate	ND	0.40	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
3,3-Dichlorobenzidine	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2,4-Dichlorophenol	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2,4-Dimethylphenol	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Hexachloroethane	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55
Sample ID: 16C0305-06
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2-Methylnaphthalene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2-Nitroaniline	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
4-Nitroaniline	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Nitrobenzene	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
4-Nitrophenol	ND	0.78	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
N-Nitrosodiphenylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Pentachlorophenol	ND	0.40	0.097	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Phenol	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2,4,5-Trichlorophenol	ND	0.40	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
2,4,6-Trichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Atrazine	ND	0.79	0.67	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:01	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	81.9	30-130		3/11/16 16:26
Phenol-d6	85.8	30-130		3/11/16 16:26
Nitrobenzene-d5	82.2	30-130		3/11/16 16:26
2-Fluorobiphenyl	92.1	30-130		3/11/16 16:26
2,4,6-Tribromophenol	82.3	30-130		3/11/16 16:26
p-Terphenyl-d14	102	30-130		3/11/16 16:26

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55
Sample ID: 16C0305-06
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
10,18-Bisnorabieta-5,7,9(10...	0.21	mg/Kg dry	92451	7	1	006566-19-4	99	SW-846 8270D	3/8/16	3/11/16 16:26	CMR
eicosane	0.69	mg/Kg dry	189073	12.464	1	000112-95-8	94	SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Heptacosane	0.30	mg/Kg dry	135275	9.617	1	000593-49-7	91	SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Heptadecane	0.64	mg/Kg dry	175370	11.756	1	000629-78-7	91	SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Nonadecane	0.32	mg/Kg dry	86908	13.036	1	000629-92-5	87	SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Octacosane	0.22	mg/Kg dry	96639	9.012	1	000630-02-4	91	SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Tetratetracontane	0.73	mg/Kg dry	201015	10.999	1	007098-22-8	91	SW-846 8270D	3/8/16	3/11/16 16:26	CMR
Triacontane	0.65	mg/Kg dry	177158	10.278	1	000638-68-6	91	SW-846 8270D	3/8/16	3/11/16 16:26	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55

Sample ID: 16C0305-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.1	0.029	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Arsenic	0.37	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Beryllium	0.41	0.39	0.033	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Chromium	10	7.2	0.46	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Copper	4.1	7.2	0.074	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Iron	8500	14	6.3	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Lead	6.0	2.9	0.060	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Manganese	41	7.5	0.098	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Mercury	20	28	4.8	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/10/16 10:39	SCB
Nickel	3.4	7.2	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Silver	0.24	0.13	0.041	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Thallium	0.068	0.092	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Zinc	7.4	14	0.22	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH
Cadmium	ND	0.55	0.025	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:00	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (10)
Sampled: 3/7/2016 09:55

Sample ID: 16C0305-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	130	35	19	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	3.2	2.7	2.7	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:18	JK
Sulfate	ND	460	310	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	83.6			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: DUP-A
Sampled: 3/7/2016 12:00
Sample ID: 16C0305-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.091	0.16	0.038	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Benzene	0.0027	0.0032	0.0011	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Bromobenzene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Bromochloromethane	ND	0.0032	0.0023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Bromodichloromethane	ND	0.0032	0.00097	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Bromoform	ND	0.0032	0.0023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Bromomethane	ND	0.016	0.0027	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
2-Butanone (MEK)	ND	0.065	0.028	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Carbon Disulfide	ND	0.0097	0.0056	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Carbon Tetrachloride	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Chlorobenzene	0.0036	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Chlorodibromomethane	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Chloroethane	ND	0.032	0.0024	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Chloroform	ND	0.0065	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Chloromethane	ND	0.016	0.0015	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Cyclohexane	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0032	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,2-Dichlorobenzene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,3-Dichlorobenzene	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,4-Dichlorobenzene	0.010	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.032	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,1-Dichloroethane	ND	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,2-Dichloroethane	ND	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,1-Dichloroethylene	ND	0.0065	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
cis-1,2-Dichloroethylene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
trans-1,2-Dichloroethylene	ND	0.0032	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,2-Dichloropropane	ND	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
cis-1,3-Dichloropropene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
trans-1,3-Dichloropropene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,4-Dioxane	ND	0.16	0.093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Ethylbenzene	0.020	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
2-Hexanone (MBK)	ND	0.032	0.018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Isopropylbenzene (Cumene)	0.0047	0.0032	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Methyl Acetate	ND	0.0032	0.0026	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0065	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Methylene Chloride	ND	0.032	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.032	0.012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Styrene	ND	0.0032	0.00097	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Tetrachloroethylene	ND	0.0032	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Toluene	ND	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,2,3-Trichlorobenzene	ND	0.0032	0.00097	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,2,4-Trichlorobenzene	0.016	0.0032	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: DUP-A
Sampled: 3/7/2016 12:00
Sample ID: 16C0305-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0032	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,1,2-Trichloroethane	ND	0.0032	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Trichloroethylene	ND	0.0032	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.016	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
Vinyl Chloride	ND	0.016	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
m+p Xylene	0.0073	0.0065	0.0027	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:18	MFF
o-Xylene	0.0026	0.0032	0.0011	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 14:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		3/9/16 14:18
Toluene-d8	94.5	70-130		3/9/16 14:18
4-Bromofluorobenzene	103	70-130		3/9/16 14:18

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: DUP-A
Sampled: 3/7/2016 12:00
Sample ID: 16C0305-07
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene, 1,2,3-trimethyl-	0.063	mg/Kg dry	651132	9.932	1	000526-73-8	95	SW-846 8260C	3/9/16	3/9/16 14:18	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: DUP-A
Sampled: 3/7/2016 12:00
Sample ID: 16C0305-07
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.011	0.0032	0.0023	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 22:02	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	155	40-160		3/11/16 22:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: DUP-A
Sampled: 3/7/2016 12:00
Sample ID: 16C0305-07
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.40	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:26	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 22:26	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:26	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:26	CMR
Acenaphthene	ND	0.20	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Acenaphthylene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Acetophenone	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Anthracene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Benzo(a)anthracene	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Benzo(a)pyrene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Benzo(b)fluoranthene	ND	0.20	0.056	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Benzo(g,h,i)perylene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Benzo(k)fluoranthene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
4-Bromophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Butylbenzylphthalate	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Carbazole	ND	0.20	0.052	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
4-Chloroaniline	ND	0.78	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
4-Chloro-3-methylphenol	ND	0.78	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2-Chloronaphthalene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2-Chlorophenol	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
4-Chlorophenylphenylether	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Chrysene	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Dibenzofuran	ND	0.40	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Di-n-butylphthalate	ND	0.40	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
3,3-Dichlorobenzidine	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2,4-Dichlorophenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Diethylphthalate	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2,4-Dimethylphenol	ND	0.40	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Dimethylphthalate	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2,4-Dinitrophenol	ND	0.78	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2,4-Dinitrotoluene	ND	0.40	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2,6-Dinitrotoluene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Di-n-octylphthalate	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Fluoranthene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Fluorene	ND	0.20	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Hexachlorobenzene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Hexachlorobutadiene	ND	0.40	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Hexachlorocyclopentadiene	ND	0.40	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Hexachloroethane	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: DUP-A
Sampled: 3/7/2016 12:00
Sample ID: 16C0305-07
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Isophorone	ND	0.40	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2-Methylnaphthalene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2-Methylphenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
3/4-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
3-Nitroaniline	ND	0.40	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
4-Nitroaniline	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Nitrobenzene	ND	0.40	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2-Nitrophenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
4-Nitrophenol	ND	0.78	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
N-Nitrosodiphenylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Pentachlorophenol	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Phenol	ND	0.40	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Pyrene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2,4,5-Trichlorophenol	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
2,4,6-Trichlorophenol	ND	0.40	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Atrazine	ND	0.79	0.66	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:26	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	86.8	30-130		3/11/16 16:52
Phenol-d6	90.8	30-130		3/11/16 16:52
Nitrobenzene-d5	89.3	30-130		3/11/16 16:52
2-Fluorobiphenyl	98.2	30-130		3/11/16 16:52
2,4,6-Tribromophenol	87.7	30-130		3/11/16 16:52
p-Terphenyl-d14	110	30-130		3/11/16 16:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: DUP-A
Sampled: 3/7/2016 12:00
Sample ID: 16C0305-07
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
10,18-Bisnorabieta-5,7,9(10...	0.45	mg/Kg dry	198516	7.003	1	006566-19-4	99	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
eicosane	2.7	mg/Kg dry	1234330	12.464	1	000112-95-8	96	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Heneicosane	0.49	mg/Kg dry	220905	8.468	1	000629-94-7	91	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Heptadecane	2.8	mg/Kg dry	1307860	10.999	1	000629-78-7	93	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Hexacosane	1.5	mg/Kg dry	672560	9.008	1	000630-01-3	93	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Pentadecane	1.3	mg/Kg dry	616760	13.626	1	000629-62-9	94	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Sulfurous acid, butyl dodec...	1.9	mg/Kg dry	879404	13.039	1	1000309-17-9	91	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Tetracosane	2.4	mg/Kg dry	1053660	9.617	1	000646-31-1	97	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Triacontane	2.8	mg/Kg dry	1288870	11.762	1	000638-68-6	97	SW-846 8270D	3/8/16	3/11/16 16:52	CMR
Tridecane, 7-hexyl-	2.4	mg/Kg dry	1115640	10.281	1	007225-66-3	93	SW-846 8270D	3/8/16	3/11/16 16:52	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: DUP-A
Sampled: 3/7/2016 12:00

Sample ID: 16C0305-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	0.029	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Arsenic	0.37	0.28	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Beryllium	0.41	0.38	0.032	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Chromium	11	7.0	0.44	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Copper	7.0	7.0	0.072	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Iron	17000	14	6.1	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Lead	7.8	2.8	0.058	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Manganese	260	7.3	0.095	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Mercury	19	26	4.3	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/10/16 10:41	SCB
Nickel	4.4	7.0	0.14	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Selenium	ND	1.2	0.20	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Silver	ND	0.12	0.040	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Thallium	0.081	0.089	0.025	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Zinc	21	14	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH
Cadmium	ND	0.53	0.024	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:03	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: DUP-A
Sampled: 3/7/2016 12:00

Sample ID: 16C0305-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	130	34	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	0.00027	0.000038	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/10/16	3/10/16 9:00	JK
Sulfate	ND	1100	750	mg/Kg dry	5	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	85.1			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: EB-1
Sampled: 3/7/2016 10:20
Sample ID: 16C0305-08
Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Bromomethane	ND	2.0	0.94	µg/L	1	R-05	SW-846 8260B	3/9/16	3/9/16 18:30	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Cyclohexane	ND	5.0	0.25	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Methyl Acetate	ND	5.0	0.42	µg/L	1	R-05	SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Tetrachloroethylene	ND	0.50	0.17	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: EB-1
Sampled: 3/7/2016 10:20
Sample ID: 16C0305-08
Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	96.9	70-130		3/9/16 18:30
Toluene-d8	97.4	70-130		3/9/16 18:30
4-Bromofluorobenzene	98.1	70-130		3/9/16 18:30

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: EB-1
Sampled: 3/7/2016 10:20
Sample ID: 16C0305-08
Sample Matrix: Equipment Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8260C	3/9/16	3/9/16 18:30	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: EB-1
Sampled: 3/7/2016 10:20

Sample ID: 16C0305-08

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	2.0	0.80	µg/L	1		SW-846 8260C	3/11/16	3/11/16 16:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	119	40-160		3/11/16 16:48

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC | Sample Description: | Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: EB-1 | Sampled: 3/7/2016 10:20

Sample ID: 16C0305-08

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1		SW-846 8270D	3/9/16	3/12/16 18:37	CMR
Atrazine	ND	20	16	µg/L	1		SW-846 8270D	3/9/16	3/12/16 18:37	CMR
Benzaldehyde	ND	10	8.7	µg/L	1	V-20	SW-846 8270D	3/9/16	3/12/16 18:37	CMR
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	3/9/16	3/12/16 18:37	CMR
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	3/9/16	3/12/16 18:37	CMR
Acenaphthene	ND	5.0	4.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Acenaphthylene	ND	5.0	4.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Acetophenone	ND	10	4.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Anthracene	ND	5.0	5.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Benzo(a)anthracene	ND	5.0	1.8	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Benzo(a)pyrene	ND	5.0	4.9	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Benzo(b)fluoranthene	ND	5.0	5.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Benzo(g,h,i)perylene	ND	5.0	4.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Benzo(k)fluoranthene	ND	5.0	2.2	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Bis(2-chloroethoxy)methane	ND	10	4.8	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Bis(2-chloroethyl)ether	ND	10	4.2	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	4.7	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
4-Bromophenylphenylether	ND	10	2.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Butylbenzylphthalate	ND	10	3.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Carbazole	ND	10	4.5	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
4-Chloroaniline	ND	10	3.9	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
4-Chloro-3-methylphenol	ND	10	4.9	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2-Chloronaphthalene	ND	10	2.9	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2-Chlorophenol	ND	10	1.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
4-Chlorophenylphenylether	ND	10	4.7	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Chrysene	ND	5.0	2.5	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Dibenz(a,h)anthracene	ND	5.0	4.1	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Dibenzofuran	ND	5.0	4.7	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Di-n-butylphthalate	ND	10	4.7	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
3,3-Dichlorobenzidine	ND	10	2.2	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2,4-Dichlorophenol	ND	10	4.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Diethylphthalate	ND	10	4.2	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2,4-Dimethylphenol	ND	10	2.4	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Dimethylphthalate	ND	10	4.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
4,6-Dinitro-2-methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2,4-Dinitrophenol	ND	10	6.7	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2,4-Dinitrotoluene	ND	10	5.2	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2,6-Dinitrotoluene	ND	10	4.9	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Fluorene	ND	5.0	4.9	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Hexachlorobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Hexachlorobutadiene	ND	10	1.8	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Hexachlorocyclopentadiene	ND	10	6.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: EB-1
Sampled: 3/7/2016 10:20
Sample ID: 16C0305-08
Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	10	1.5	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	4.2	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Isophorone	ND	10	1.8	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2-Methylnaphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2-Methylphenol	ND	10	2.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
3/4-Methylphenol	ND	10	4.1	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Naphthalene	ND	5.0	1.4	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2-Nitroaniline	ND	10	6.3	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
3-Nitroaniline	ND	10	4.3	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
4-Nitroaniline	ND	10	3.7	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Nitrobenzene	ND	10	4.3	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2-Nitrophenol	ND	10	2.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
4-Nitrophenol	ND	10	2.3	µg/L	1	V-20	SW-846 8270D	3/9/16	3/11/16 13:50	CMR
N-Nitrosodiphenylamine	ND	10	1.9	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
N-Nitrosodi-n-propylamine	ND	10	4.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Phenol	ND	10	2.5	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
Pyrene	ND	5.0	2.6	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
1,2,4,5-Tetrachlorobenzene	ND	10	2.1	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2,4,5-Trichlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR
2,4,6-Trichlorophenol	ND	10	3.7	µg/L	1		SW-846 8270D	3/9/16	3/11/16 13:50	CMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	47.0		15-110		3/11/16 13:50
Phenol-d6	31.0		15-110		3/11/16 13:50
Nitrobenzene-d5	95.6		30-130		3/11/16 13:50
2-Fluorobiphenyl	99.0		30-130		3/11/16 13:50
2,4,6-Tribromophenol	**120**	*	15-110	S-07	3/11/16 13:50
p-Terphenyl-d14	119		30-130		3/11/16 13:50

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: EB-1
Sampled: 3/7/2016 10:20

Sample ID: 16C0305-08

Sample Matrix: Equipment Blank Water

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1			SW-846 8270D	3/9/16	3/11/16 13:50	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: EB-1
Sampled: 3/7/2016 10:20

Sample ID: 16C0305-08

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.0	0.28	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Arsenic	ND	0.80	0.59	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Beryllium	ND	0.80	0.12	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Cadmium	ND	1.0	0.034	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Chromium	ND	2.0	0.89	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Copper	2.2	10	0.37	µg/L	2	J	SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Iron	ND	100	21	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Lead	0.62	2.0	0.11	µg/L	2	J	SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Manganese	0.44	2.0	0.23	µg/L	2	J	SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Mercury	ND	0.10	0.019	µg/L	1		SW-846 7470A	3/9/16	3/10/16 9:30	SCB
Nickel	ND	10	1.6	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Selenium	ND	10	1.5	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Silver	ND	1.0	0.23	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Thallium	ND	0.40	0.13	µg/L	2		SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH
Zinc	8.9	20	6.6	µg/L	2	J	SW-846 6020A/B	3/9/16	3/14/16 11:26	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: EB-1
Sampled: 3/7/2016 10:20

Sample ID: 16C0305-08

Sample Matrix: Equipment Blank Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	560	300	160	µg/L	1		SM19-22 4500 NH3 C	3/9/16	3/9/16 15:00	VAK
Nitrate as N	ND	50	49	µg/L	1		SM 21-22 4500 NO3 F	3/8/16	3/8/16 15:30	AG
Sulfate	ND	2000	1400	µg/L	1		ASTM D516-07	3/11/16	3/11/16 10:35	MMH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30
Sample ID: 16C0305-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Benzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
2-Butanone (MEK)	ND	0.040	0.017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Carbon Disulfide	ND	0.0060	0.0035	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,4-Dichlorobenzene	0.0015	0.0020	0.00080	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,4-Dioxane	ND	0.10	0.057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Ethylbenzene	0.0016	0.0020	0.00080	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 14:46	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Styrene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Toluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,2,4-Trichlorobenzene	0.0032	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30
Sample ID: 16C0305-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 14:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.4	70-130		3/9/16 14:46
Toluene-d8	95.4	70-130		3/9/16 14:46
4-Bromofluorobenzene	103	70-130		3/9/16 14:46

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30
Sample ID: 16C0305-09
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene, 1,2,3-trimethyl-	0.0072	mg/Kg dry	120950	9.929	1	000526-73-8	95	SW-846 8260C	3/9/16	3/9/16 14:46	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30
Sample ID: 16C0305-09
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0066	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 22:30	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	147	40-160		3/11/16 22:30

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30
Sample ID: 16C0305-09
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.85	0.43	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:01	CMR
Benzaldehyde	ND	0.43	0.41	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 19:01	CMR
Biphenyl	ND	0.85	0.54	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:01	CMR
Caprolactam	ND	0.43	0.32	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:01	CMR
Acenaphthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Acenaphthylene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Acetophenone	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Anthracene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Benzo(a)anthracene	0.073	0.21	0.057	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Benzo(a)pyrene	0.087	0.21	0.067	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Benzo(b)fluoranthene	0.13	0.21	0.061	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Benzo(g,h,i)perylene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Benzo(k)fluoranthene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Bis(2-chloroethoxy)methane	ND	0.43	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Bis(2-chloroethyl)ether	ND	0.43	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Bis(2-Ethylhexyl)phthalate	6.7	1.7	0.67	mg/Kg dry	4		SW-846 8270D	3/8/16	3/12/16 16:30	CMR
4-Bromophenylphenylether	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Butylbenzylphthalate	ND	0.43	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Carbazole	ND	0.21	0.056	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
4-Chloroaniline	ND	0.83	0.098	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
4-Chloro-3-methylphenol	ND	0.83	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2-Chloronaphthalene	ND	0.43	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2-Chlorophenol	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
4-Chlorophenylphenylether	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Chrysene	0.11	0.21	0.067	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Dibenzofuran	ND	0.43	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Di-n-butylphthalate	ND	0.43	0.093	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
3,3-Dichlorobenzidine	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2,4-Dichlorophenol	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Diethylphthalate	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2,4-Dimethylphenol	ND	0.43	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Dimethylphthalate	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
4,6-Dinitro-2-methylphenol	ND	0.43	0.41	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2,4-Dinitrophenol	ND	0.83	0.24	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2,4-Dinitrotoluene	ND	0.43	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2,6-Dinitrotoluene	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Di-n-octylphthalate	ND	0.43	0.22	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Fluoranthene	0.19	0.21	0.071	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Fluorene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Hexachlorobenzene	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Hexachlorobutadiene	ND	0.43	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Hexachlorocyclopentadiene	ND	0.43	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Hexachloroethane	ND	0.43	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30
Sample ID: 16C0305-09
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Isophorone	ND	0.43	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2-Methylnaphthalene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2-Methylphenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
3/4-Methylphenol	ND	0.43	0.14	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Naphthalene	0.18	0.21	0.11	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2-Nitroaniline	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
3-Nitroaniline	ND	0.43	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
4-Nitroaniline	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Nitrobenzene	ND	0.43	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2-Nitrophenol	ND	0.43	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
4-Nitrophenol	ND	0.83	0.093	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
N-Nitrosodiphenylamine	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
N-Nitrosodi-n-propylamine	ND	0.43	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Pentachlorophenol	ND	0.43	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Phenol	ND	0.43	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Pyrene	0.17	0.21	0.071	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.43	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2,4,5-Trichlorophenol	ND	0.43	0.097	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
2,4,6-Trichlorophenol	ND	0.43	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Atrazine	ND	0.85	0.71	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 19:01	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	63.6	30-130		3/11/16 17:17
Phenol-d6	66.1	30-130		3/11/16 17:17
Nitrobenzene-d5	41.2	30-130		3/11/16 17:17
2-Fluorobiphenyl	74.4	30-130		3/11/16 17:17
2,4,6-Tribromophenol	65.9	30-130		3/11/16 17:17
p-Terphenyl-d14	74.9	30-130		3/11/16 17:17

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30
Sample ID: 16C0305-09
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
eicosane	5.4	mg/Kg dry	3543240	8.478	1	000112-95-8	98	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Heptadecane	8.5	mg/Kg dry	5588150	9.636	1	000629-78-7	95	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Heptadecane, 9-hexyl-	16	mg/Kg dry	5270250	10.3	1	055124-79-3	94	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Nonacosane	15	mg/Kg dry	5128670	11.02	1	000630-03-5	97	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Octadecane	1.1	mg/Kg dry	426007	6.844	1	000593-45-3	97	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Octadecanoic acid	3.7	mg/Kg dry	1479620	7.055	1	000057-11-4	99	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Tetracosane	12	mg/Kg dry	4009630	11.775	1	000646-31-1	97	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Tetradecanoic Acid	0.35	mg/Kg dry	138445	5.857	1	000544-63-8	99	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Tricosane	2.4	mg/Kg dry	1594740	7.558	1	000638-67-5	97	SW-846 8270D	3/8/16	3/11/16 17:17	CMR
Tridecane, 7-hexyl-	3.7	mg/Kg dry	2472820	7.99	1	007225-66-3	93	SW-846 8270D	3/8/16	3/11/16 17:17	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30

Sample ID: 16C0305-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.055	3.2	0.030	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Arsenic	1.3	0.30	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Beryllium	0.37	0.40	0.033	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Chromium	14	7.4	0.47	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Copper	8.2	7.4	0.076	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Iron	32000	30	13	mg/Kg dry	10		SW-846 6020A/B	3/10/16	3/10/16 12:43	MJH
Lead	19	3.0	0.062	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Manganese	140	7.7	0.10	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Mercury	200	30	5.0	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:42	SCB
Nickel	4.5	7.4	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Selenium	0.27	1.2	0.21	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Silver	3.9	0.13	0.042	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Thallium	0.12	0.095	0.027	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Zinc	160	15	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH
Cadmium	0.035	0.56	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:11	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-1 (5-10)
Sampled: 3/7/2016 13:30

Sample ID: 16C0305-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	180	34	18	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	3.1	3.0	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:23	JK
Sulfate	ND	2400	1600	mg/Kg dry	10	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	79.2			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (5-10)
Sampled: 3/7/2016 14:05
Sample ID: 16C0305-10
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.16	0.036	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Benzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Bromobenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Bromochloromethane	ND	0.0031	0.0022	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Bromodichloromethane	ND	0.0031	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Bromoform	ND	0.0031	0.0022	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Bromomethane	ND	0.016	0.0026	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
2-Butanone (MEK)	ND	0.062	0.027	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Carbon Disulfide	ND	0.0093	0.0054	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Carbon Tetrachloride	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Chlorobenzene	0.0011	0.0031	0.0011	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Chlorodibromomethane	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Chloroethane	ND	0.031	0.0023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Chloroform	ND	0.0062	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Chloromethane	ND	0.016	0.0014	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Cyclohexane	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0031	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,2-Dibromoethane (EDB)	ND	0.0016	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,2-Dichlorobenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,3-Dichlorobenzene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,4-Dichlorobenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.031	0.0020	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,1-Dichloroethane	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,2-Dichloroethane	ND	0.0031	0.0020	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,1-Dichloroethylene	ND	0.0062	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
cis-1,2-Dichloroethylene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
trans-1,2-Dichloroethylene	ND	0.0031	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,2-Dichloropropane	ND	0.0031	0.0020	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
cis-1,3-Dichloropropene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
trans-1,3-Dichloropropene	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,4-Dioxane	ND	0.16	0.089	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Ethylbenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
2-Hexanone (MBK)	ND	0.031	0.017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Isopropylbenzene (Cumene)	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Methyl Acetate	ND	0.0031	0.0025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0062	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Methylene Chloride	ND	0.031	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.031	0.012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Styrene	ND	0.0031	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.0016	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Tetrachloroethylene	ND	0.0031	0.0020	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Toluene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,2,3-Trichlorobenzene	ND	0.0031	0.00093	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,2,4-Trichlorobenzene	ND	0.0031	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC | Sample Description: | Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (5-10) | Sampled: 3/7/2016 14:05

Sample ID: 16C0305-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0031	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,1,2-Trichloroethane	ND	0.0031	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Trichloroethylene	ND	0.0031	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.016	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.016	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
Vinyl Chloride	ND	0.016	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
m+p Xylene	ND	0.0062	0.0026	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF
o-Xylene	ND	0.0031	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:14	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		3/9/16 15:14
Toluene-d8	96.7	70-130		3/9/16 15:14
4-Bromofluorobenzene	101	70-130		3/9/16 15:14

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (5-10)
Sampled: 3/7/2016 14:05

Sample ID: 16C0305-10

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/9/16	3/9/16 15:14	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (5-10)
Sampled: 3/7/2016 14:05

Sample ID: 16C0305-10

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0031	0.0022	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 22:59	EEH

Surrogates	% Recovery		Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	**182**	*	40-160	S-17		3/11/16 22:59

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (5-10)
Sampled: 3/7/2016 14:05
Sample ID: 16C0305-10
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.98	0.50	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:53	CMR
Benzaldehyde	ND	0.50	0.47	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 22:53	CMR
Biphenyl	ND	0.98	0.62	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:53	CMR
Caprolactam	ND	0.50	0.37	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:53	CMR
Acenaphthene	ND	0.25	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Acenaphthylene	ND	0.25	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Acetophenone	ND	0.50	0.098	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Anthracene	ND	0.25	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Benzo(a)anthracene	ND	0.25	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Benzo(a)pyrene	ND	0.25	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Benzo(b)fluoranthene	ND	0.25	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Benzo(g,h,i)perylene	ND	0.25	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Benzo(k)fluoranthene	ND	0.25	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Bis(2-chloroethoxy)methane	ND	0.50	0.095	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Bis(2-chloroethyl)ether	ND	0.50	0.098	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Bis(2-Ethylhexyl)phthalate	2.3	0.50	0.19	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
4-Bromophenylphenylether	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Butylbenzylphthalate	ND	0.50	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Carbazole	ND	0.25	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
4-Chloroaniline	ND	0.96	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
4-Chloro-3-methylphenol	ND	0.96	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2-Chloronaphthalene	ND	0.50	0.093	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2-Chlorophenol	ND	0.50	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
4-Chlorophenylphenylether	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Chrysene	ND	0.25	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Dibenz(a,h)anthracene	ND	0.25	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Dibenzofuran	ND	0.50	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Di-n-butylphthalate	ND	0.50	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
3,3-Dichlorobenzidine	ND	0.25	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2,4-Dichlorophenol	ND	0.50	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Diethylphthalate	ND	0.50	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2,4-Dimethylphenol	ND	0.50	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Dimethylphthalate	ND	0.50	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
4,6-Dinitro-2-methylphenol	ND	0.50	0.47	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2,4-Dinitrophenol	ND	0.96	0.28	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2,4-Dinitrotoluene	ND	0.50	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2,6-Dinitrotoluene	ND	0.50	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Di-n-octylphthalate	ND	0.50	0.26	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Fluoranthene	ND	0.25	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Fluorene	ND	0.25	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Hexachlorobenzene	ND	0.50	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Hexachlorobutadiene	ND	0.50	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Hexachlorocyclopentadiene	ND	0.50	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Hexachloroethane	ND	0.50	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (5-10)
Sampled: 3/7/2016 14:05

Sample ID: 16C0305-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.25	0.18	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Isophorone	ND	0.50	0.096	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2-Methylnaphthalene	0.16	0.25	0.086	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2-Methylphenol	ND	0.50	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
3/4-Methylphenol	ND	0.50	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Naphthalene	0.20	0.25	0.13	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2-Nitroaniline	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
3-Nitroaniline	ND	0.50	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
4-Nitroaniline	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Nitrobenzene	ND	0.50	0.093	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2-Nitrophenol	ND	0.50	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
4-Nitrophenol	ND	0.96	0.11	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
N-Nitrosodiphenylamine	ND	0.50	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
N-Nitrosodi-n-propylamine	ND	0.50	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Pentachlorophenol	ND	0.50	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Phenanthrene	ND	0.25	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Phenol	ND	0.50	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Pyrene	ND	0.25	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.50	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2,4,5-Trichlorophenol	ND	0.50	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
2,4,6-Trichlorophenol	ND	0.50	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Atrazine	ND	0.98	0.82	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 22:53	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	61.7	30-130		3/11/16 15:28
Phenol-d6	66.2	30-130		3/11/16 15:28
Nitrobenzene-d5	59.2	30-130		3/11/16 15:28
2-Fluorobiphenyl	86.1	30-130		3/11/16 15:28
2,4,6-Tribromophenol	98.9	30-130		3/11/16 15:28
p-Terphenyl-d14	113	30-130		3/11/16 15:28

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (5-10)
Sampled: 3/7/2016 14:05
Sample ID: 16C0305-10
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
10,18-Bisnorabieta-5,7,9(10...	2.7	mg/Kg dry	2602280	6.244	1	006566-19-4	99	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
4b,8-Dimethyl-2-isopropylph...	0.67	mg/Kg dry	640748	6.04	1	1000197-14-1	89	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Benzeneacetamide	1.5	mg/Kg dry	1513450	4.197	1	000103-81-1	97	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Eicosane, 9-octyl-	0.92	mg/Kg dry	636702	10.768	1	013475-77-9	93	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
n-Hexadecanoic acid	5.0	mg/Kg dry	4765240	5.816	1	000057-10-3	98	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Octadecane, 5,14-dibutyl-	1.1	mg/Kg dry	736591	9.418	1	055282-13-8	91	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Phenanthrene, 1-methyl-7-(1...	3.5	mg/Kg dry	2429390	6.589	1	000483-65-8	99	SW-846 8270D	3/8/16	3/11/16 15:28	CMR
Tetradecanoic Acid	1.0	mg/Kg dry	953308	5.273	1	000544-63-8	99	SW-846 8270D	3/8/16	3/11/16 15:28	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (5-10)
Sampled: 3/7/2016 14:05

Sample ID: 16C0305-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.29	3.7	0.035	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Arsenic	1.8	0.35	0.26	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Beryllium	0.46	0.47	0.039	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Chromium	20	8.7	0.55	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Copper	25	8.7	0.089	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Iron	30000	17	7.6	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Lead	170	3.5	0.072	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Manganese	520	9.0	0.12	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Mercury	41	34	5.8	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:44	SCB
Nickel	17	8.7	0.18	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Selenium	ND	1.5	0.25	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Silver	0.33	0.15	0.049	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Thallium	0.11	0.11	0.032	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Zinc	110	17	0.27	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH
Cadmium	4.0	0.66	0.030	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:14	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (5-10)
Sampled: 3/7/2016 14:05

Sample ID: 16C0305-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	260	40	21	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	3.4	3.4	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:23	JK
Sulfate	ND	550	370	mg/Kg dry	2	W-06	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	68.4			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10
Sample ID: 16C0305-11
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Benzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Bromobenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Bromodichloromethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
2-Butanone (MEK)	ND	0.045	0.020	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Carbon Disulfide	ND	0.0068	0.0039	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Carbon Tetrachloride	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Chlorobenzene	0.0031	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Chlorodibromomethane	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Chloroform	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Chloromethane	ND	0.011	0.0010	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Cyclohexane	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,4-Dichlorobenzene	0.0011	0.0023	0.00090	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,1-Dichloroethane	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,1-Dichloroethylene	ND	0.0045	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,4-Dioxane	ND	0.11	0.065	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Ethylbenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
2-Hexanone (MBK)	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Methylene Chloride	ND	0.023	0.0080	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0086	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Styrene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Toluene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10

Sample ID: 16C0305-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Trichloroethylene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF
o-Xylene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 15:41	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.1	70-130		3/9/16 15:41
Toluene-d8	95.9	70-130		3/9/16 15:41
4-Bromofluorobenzene	102	70-130		3/9/16 15:41

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10
Sample ID: 16C0305-11
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
1R-.alpha.-Pinene	0.017	mg/Kg dry	211654	8.533	1	007785-70-8	95	SW-846 8260C	3/9/16	3/9/16 15:41	MFF
Cyclohexane, 1-methyl-4-(1-...	0.0068	mg/Kg dry	249853	9.059	1	006069-98-3	97	SW-846 8260C	3/9/16	3/9/16 15:41	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10

Sample ID: 16C0305-11

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	0.0097	0.0023	0.0016	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 23:27	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	152	40-160		3/11/16 23:27

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10
Sample ID: 16C0305-11
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.82	0.42	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 23:20	CMR
Benzaldehyde	ND	0.42	0.40	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 23:20	CMR
Biphenyl	ND	0.82	0.52	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 23:20	CMR
Caprolactam	ND	0.42	0.31	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 23:20	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Acenaphthylene	ND	0.21	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Acetophenone	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Anthracene	ND	0.21	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Benzo(a)anthracene	ND	0.21	0.055	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Benzo(a)pyrene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Benzo(b)fluoranthene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Benzo(g,h,i)perylene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Benzo(k)fluoranthene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Bis(2-Ethylhexyl)phthalate	0.38	0.42	0.16	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 15:52	CMR
4-Bromophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Butylbenzylphthalate	ND	0.42	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Carbazole	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
4-Chloroaniline	ND	0.81	0.096	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
4-Chloro-3-methylphenol	ND	0.81	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2-Chloronaphthalene	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2-Chlorophenol	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
4-Chlorophenylphenylether	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Chrysene	ND	0.21	0.065	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Dibenzofuran	ND	0.42	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Di-n-butylphthalate	ND	0.42	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
3,3-Dichlorobenzidine	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2,4-Dichlorophenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Diethylphthalate	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2,4-Dimethylphenol	ND	0.42	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Dimethylphthalate	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2,4-Dinitrophenol	ND	0.81	0.24	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2,4-Dinitrotoluene	ND	0.42	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2,6-Dinitrotoluene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Di-n-octylphthalate	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Fluoranthene	0.077	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Fluorene	ND	0.21	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Hexachlorobenzene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Hexachlorobutadiene	ND	0.42	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Hexachlorocyclopentadiene	ND	0.42	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Hexachloroethane	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10
Sample ID: 16C0305-11
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Isophorone	ND	0.42	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2-Methylnaphthalene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2-Methylphenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
3/4-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
3-Nitroaniline	ND	0.42	0.060	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
4-Nitroaniline	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Nitrobenzene	ND	0.42	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2-Nitrophenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
4-Nitrophenol	ND	0.81	0.091	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 15:52	CMR
N-Nitrosodiphenylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Pentachlorophenol	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Phenol	ND	0.42	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Pyrene	0.082	0.21	0.069	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 15:52	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2,4,5-Trichlorophenol	ND	0.42	0.094	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
2,4,6-Trichlorophenol	ND	0.42	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 15:52	CMR
Atrazine	ND	0.82	0.69	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 23:20	CMR

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	83.1	30-130		3/11/16 15:52
Phenol-d6	90.4	30-130		3/11/16 15:52
Nitrobenzene-d5	85.9	30-130		3/11/16 15:52
2-Fluorobiphenyl	106	30-130		3/11/16 15:52
2,4,6-Tribromophenol	110	30-130		3/11/16 15:52
p-Terphenyl-d14	127	30-130		3/11/16 15:52

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10
Sample ID: 16C0305-11
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/8/16	3/11/16 15:52	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10

Sample ID: 16C0305-11

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.053	3.3	0.031	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Arsenic	0.34	0.30	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Beryllium	0.23	0.41	0.034	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Chromium	9.1	7.6	0.48	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Copper	5.3	7.6	0.078	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Iron	9200	15	6.6	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Lead	30	3.0	0.063	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Manganese	180	7.9	0.10	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Mercury	30	29	4.9	µg/kg dry	1		SW-846 7471B	3/9/16	3/10/16 10:45	SCB
Nickel	3.4	7.6	0.16	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Selenium	ND	1.3	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Silver	ND	0.13	0.043	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Thallium	0.068	0.097	0.028	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Zinc	16	15	0.24	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH
Cadmium	0.082	0.58	0.026	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:17	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-4 (10-15)
Sampled: 3/7/2016 14:10

Sample ID: 16C0305-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	58	31	17	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	3.0	3.0	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:23	JK
Sulfate	900	1200	790	mg/Kg dry	5	W-06, J	ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	81.4			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (7.5)
Sampled: 3/7/2016 15:10
Sample ID: 16C0305-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.15	0.035	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Benzene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Bromobenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Bromochloromethane	ND	0.0030	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Bromodichloromethane	ND	0.0030	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Bromoform	ND	0.0030	0.0021	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Bromomethane	ND	0.015	0.0025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
2-Butanone (MEK)	ND	0.060	0.026	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Carbon Disulfide	ND	0.0090	0.0052	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Carbon Tetrachloride	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Chlorobenzene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Chlorodibromomethane	ND	0.0015	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Chloroethane	ND	0.030	0.0022	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Chloroform	ND	0.0060	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Chloromethane	ND	0.015	0.0013	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Cyclohexane	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,2-Dichlorobenzene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,3-Dichlorobenzene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,4-Dichlorobenzene	0.010	0.0030	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.030	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,1-Dichloroethane	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,2-Dichloroethane	ND	0.0030	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,1-Dichloroethylene	ND	0.0060	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
cis-1,2-Dichloroethylene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
trans-1,2-Dichloroethylene	ND	0.0030	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,2-Dichloropropane	ND	0.0030	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
cis-1,3-Dichloropropene	ND	0.0015	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
trans-1,3-Dichloropropene	ND	0.0015	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,4-Dioxane	ND	0.15	0.086	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Ethylbenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
2-Hexanone (MBK)	ND	0.030	0.016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Isopropylbenzene (Cumene)	0.0012	0.0030	0.0010	mg/Kg dry	1	J	SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Methyl Acetate	ND	0.0030	0.0024	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0060	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Methylene Chloride	ND	0.030	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.030	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Styrene	ND	0.0030	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,1,2,2-Tetrachloroethane	ND	0.0015	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Tetrachloroethylene	ND	0.0030	0.0019	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Toluene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,2,3-Trichlorobenzene	ND	0.0030	0.00090	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,2,4-Trichlorobenzene	ND	0.0030	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (7.5)
Sampled: 3/7/2016 15:10
Sample ID: 16C0305-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0030	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,1,2-Trichloroethane	ND	0.0030	0.0018	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Trichloroethylene	ND	0.0030	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Trichlorofluoromethane (Freon 11)	ND	0.015	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.015	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
Vinyl Chloride	ND	0.015	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
m+p Xylene	ND	0.0060	0.0025	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF
o-Xylene	ND	0.0030	0.0010	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:09	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.0	70-130		3/9/16 16:09
Toluene-d8	95.0	70-130		3/9/16 16:09
4-Bromofluorobenzene	104	70-130		3/9/16 16:09

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (7.5)
Sampled: 3/7/2016 15:10
Sample ID: 16C0305-12
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyclohexane, 1-methyl-4-(1-...	0.018	mg/Kg dry	212499	9.056	1	006069-98-3	97	SW-846 8260C	3/9/16	3/9/16 16:09	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (7.5)
Sampled: 3/7/2016 15:10
Sample ID: 16C0305-12
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0030	0.0021	mg/Kg dry	1		SW-846 8260C	3/11/16	3/11/16 23:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	147	40-160		3/11/16 23:56

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Project Location: Raleigh, NC | Sample Description: | Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-6 (7.5) | Sampled: 3/7/2016 15:10

Sample ID: 16C0305-12

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 23:45	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/12/16 23:45	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 23:45	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 23:45	CMR
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Acetophenone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Benzo(a)pyrene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Benzo(k)fluoranthene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
4-Bromophenylphenylether	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Butylbenzylphthalate	ND	0.41	0.097	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Carbazole	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
4-Chloroaniline	ND	0.79	0.093	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
4-Chloro-3-methylphenol	ND	0.79	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2-Chlorophenol	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
4-Chlorophenylphenylether	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Chrysene	ND	0.20	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Di-n-butylphthalate	ND	0.41	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
3,3-Dichlorobenzidine	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2,4-Dichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Diethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2,4-Dimethylphenol	ND	0.41	0.075	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Dimethylphthalate	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2,4-Dinitrophenol	ND	0.79	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2,4-Dinitrotoluene	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2,6-Dinitrotoluene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Di-n-octylphthalate	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Fluoranthene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Hexachlorobenzene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Hexachlorobutadiene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Hexachlorocyclopentadiene	ND	0.41	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Hexachloroethane	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (7.5)
Sampled: 3/7/2016 15:10
Sample ID: 16C0305-12
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Isophorone	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2-Nitroaniline	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
4-Nitroaniline	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
4-Nitrophenol	ND	0.79	0.089	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 16:17	CMR
N-Nitrosodiphenylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Pentachlorophenol	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Phenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Pyrene	ND	0.20	0.067	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2,4,5-Trichlorophenol	ND	0.41	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
2,4,6-Trichlorophenol	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:17	CMR
Atrazine	ND	0.80	0.68	mg/Kg dry	1		SW-846 8270D	3/8/16	3/12/16 23:45	CMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	82.9		30-130		3/11/16 16:17
Phenol-d6	88.5		30-130		3/11/16 16:17
Nitrobenzene-d5	86.6		30-130		3/11/16 16:17
2-Fluorobiphenyl	102		30-130		3/11/16 16:17
2,4,6-Tribromophenol	113		30-130		3/11/16 16:17
p-Terphenyl-d14	**135**	*	30-130	S-07	3/11/16 16:17

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (7.5)
Sampled: 3/7/2016 15:10
Sample ID: 16C0305-12
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/8/16	3/11/16 16:17	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-6 (7.5)
Sampled: 3/7/2016 15:10

Sample ID: 16C0305-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.046	3.3	0.031	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Arsenic	1.4	0.30	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Beryllium	0.26	0.41	0.034	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Chromium	17	7.6	0.48	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Copper	7.8	7.6	0.078	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Iron	26000	15	6.6	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Lead	11	3.0	0.063	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Manganese	150	7.9	0.10	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Mercury	7.3	27	4.5	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/10/16 10:50	SCB
Nickel	5.7	7.6	0.16	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Selenium	ND	1.3	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Silver	ND	0.13	0.043	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Thallium	0.079	0.097	0.028	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Zinc	14	15	0.24	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH
Cadmium	ND	0.58	0.026	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:20	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-6 (7.5)
Sampled: 3/7/2016 15:10

Sample ID: 16C0305-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	29	31	16	mg/Kg dry	1	J	SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.9	2.9	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:23	JK
Sulfate	ND	230	160	mg/Kg dry	1		ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	83.2			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20
Sample ID: 16C0305-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	0.023	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Benzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Bromobenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Bromodichloromethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Bromomethane	ND	0.0098	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Carbon Disulfide	ND	0.0059	0.0034	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Carbon Tetrachloride	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Chlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Chlorodibromomethane	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Chloroform	ND	0.0039	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Chloromethane	ND	0.0098	0.00088	mg/Kg dry	1	L-04	SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Cyclohexane	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	0.00098	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,1-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00088	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
cis-1,3-Dichloropropene	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
trans-1,3-Dichloropropene	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,4-Dioxane	ND	0.098	0.057	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Ethylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00088	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Methylene Chloride	ND	0.020	0.0070	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0075	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Styrene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.00098	0.00088	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Toluene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20
Sample ID: 16C0305-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Trichloroethylene	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0098	0.00088	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
Vinyl Chloride	ND	0.0098	0.0011	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF
o-Xylene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	3/9/16	3/9/16 16:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	102	70-130		3/9/16 16:36
Toluene-d8	95.4	70-130		3/9/16 16:36
4-Bromofluorobenzene	101	70-130		3/9/16 16:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20
Sample ID: 16C0305-13
Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Propene	0.018	mg/Kg dry	189313	0.996	1	000115-07-1	90	SW-846 8260C	3/9/16	3/9/16 16:36	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20
Sample ID: 16C0305-13
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260C	3/11/16	3/12/16 0:24	EEH

Surrogates	% Recovery		Recovery Limits	Flag/Qual		
1,4-Dioxane-d8	**269**	*	40-160	S-17		3/12/16 0:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20
Sample ID: 16C0305-13
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	3/8/16	3/13/16 0:12	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/13/16 0:12	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	3/8/16	3/13/16 0:12	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	3/8/16	3/13/16 0:12	CMR
Acenaphthene	ND	0.20	0.061	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Acenaphthylene	ND	0.20	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Acetophenone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Anthracene	ND	0.20	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Benzo(a)anthracene	ND	0.20	0.054	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Benzo(a)pyrene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Benzo(b)fluoranthene	ND	0.20	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Benzo(g,h,i)perylene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Benzo(k)fluoranthene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.078	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Bis(2-Ethylhexyl)phthalate	0.17	0.41	0.16	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 16:41	CMR
4-Bromophenylphenylether	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Butylbenzylphthalate	ND	0.41	0.097	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Carbazole	ND	0.20	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
4-Chloroaniline	ND	0.79	0.094	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
4-Chloro-3-methylphenol	ND	0.79	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2-Chlorophenol	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
4-Chlorophenylphenylether	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Chrysene	ND	0.20	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Di-n-butylphthalate	ND	0.41	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
3,3-Dichlorobenzidine	ND	0.20	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Diethylphthalate	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Dimethylphthalate	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2,4-Dinitrophenol	ND	0.79	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2,4-Dinitrotoluene	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2,6-Dinitrotoluene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Di-n-octylphthalate	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Fluoranthene	0.073	0.20	0.067	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Fluorene	ND	0.20	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Hexachlorobenzene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Hexachlorobutadiene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Hexachlorocyclopentadiene	ND	0.41	0.086	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20
Sample ID: 16C0305-13
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Isophorone	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2-Methylnaphthalene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Naphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2-Nitroaniline	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
4-Nitroaniline	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
4-Nitrophenol	ND	0.79	0.089	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 16:41	CMR
N-Nitrosodiphenylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.084	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Pentachlorophenol	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Pyrene	0.090	0.20	0.067	mg/Kg dry	1	J	SW-846 8270D	3/8/16	3/11/16 16:41	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.073	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2,4,5-Trichlorophenol	ND	0.41	0.092	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
2,4,6-Trichlorophenol	ND	0.41	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Atrazine	ND	0.80	0.68	mg/Kg dry	1		SW-846 8270D	3/8/16	3/13/16 0:12	CMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	83.1		30-130		3/11/16 16:41
Phenol-d6	91.6		30-130		3/11/16 16:41
Nitrobenzene-d5	73.4		30-130		3/11/16 16:41
2-Fluorobiphenyl	109		30-130		3/11/16 16:41
2,4,6-Tribromophenol	116		30-130		3/11/16 16:41
p-Terphenyl-d14	**136**	*	30-130	S-07	3/11/16 16:41

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20
Sample ID: 16C0305-13
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
Dodecane, 2-methyl-6-propyl-	1.1	mg/Kg dry	828297	7.807	1	055045-08-4	91	SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Heneicosane	0.99	mg/Kg dry	779209	6.692	1	000629-94-7	95	SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Heptacosane	0.81	mg/Kg dry	638298	8.283	1	000593-49-7	94	SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Pentacosane	1.3	mg/Kg dry	987003	7.384	1	000629-99-2	97	SW-846 8270D	3/8/16	3/11/16 16:41	CMR
Tridecane, 7-hexyl-	1.2	mg/Kg dry	937295	7.016	1	007225-66-3	97	SW-846 8270D	3/8/16	3/11/16 16:41	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20

Sample ID: 16C0305-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.052	3.2	0.030	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Arsenic	1.2	0.30	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Beryllium	0.31	0.40	0.033	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Chromium	14	7.4	0.47	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Copper	7.7	7.4	0.076	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Iron	24000	15	6.5	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Lead	10	3.0	0.062	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Manganese	160	7.7	0.10	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Mercury	18	27	4.6	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/10/16 10:52	SCB
Nickel	5.1	7.4	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Silver	ND	0.13	0.042	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Thallium	0.078	0.095	0.027	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Zinc	15	15	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH
Cadmium	ND	0.56	0.025	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:22	MJH

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-6 (10)
Sampled: 3/7/2016 15:20

Sample ID: 16C0305-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	35	19	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.9	2.8	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:23	JK
Sulfate	ND	240	160	mg/Kg dry	1		ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	82.8			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25
Sample ID: 16C0305-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.089	0.021	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Benzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Bromobenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Bromochloromethane	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Bromodichloromethane	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Bromoform	ND	0.0018	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Bromomethane	ND	0.0089	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
2-Butanone (MEK)	ND	0.036	0.016	mg/Kg dry	1	R-05	SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Carbon Disulfide	ND	0.0054	0.0031	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Carbon Tetrachloride	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Chlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Chlorodibromomethane	ND	0.00089	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Chloroethane	ND	0.018	0.0013	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Chloroform	ND	0.0036	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Chloromethane	ND	0.0089	0.00081	mg/Kg dry	1	L-04	SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Cyclohexane	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0018	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,2-Dibromoethane (EDB)	ND	0.00089	0.00089	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,2-Dichlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,3-Dichlorobenzene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,4-Dichlorobenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.018	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,1-Dichloroethane	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,2-Dichloroethane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,1-Dichloroethylene	ND	0.0036	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
cis-1,2-Dichloroethylene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
trans-1,2-Dichloroethylene	ND	0.0018	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,2-Dichloropropane	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
cis-1,3-Dichloropropene	ND	0.00089	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
trans-1,3-Dichloropropene	ND	0.00089	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,4-Dioxane	ND	0.089	0.052	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Ethylbenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
2-Hexanone (MBK)	ND	0.018	0.0098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Isopropylbenzene (Cumene)	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Methyl Acetate	ND	0.0018	0.0014	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0036	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Methylene Chloride	ND	0.018	0.0064	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.018	0.0068	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Styrene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.00089	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Tetrachloroethylene	ND	0.0018	0.0012	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Toluene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,2,3-Trichlorobenzene	ND	0.0018	0.00054	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,2,4-Trichlorobenzene	ND	0.0018	0.00072	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25
Sample ID: 16C0305-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0018	0.00089	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,1,2-Trichloroethane	ND	0.0018	0.0011	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Trichloroethylene	ND	0.0018	0.00089	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0089	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0089	0.00081	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
Vinyl Chloride	ND	0.0089	0.00098	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
m+p Xylene	ND	0.0036	0.0015	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF
o-Xylene	ND	0.0018	0.00063	mg/Kg dry	1		SW-846 8260B	3/10/16	3/10/16 8:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.2	70-130		3/10/16 8:29
Toluene-d8	96.4	70-130		3/10/16 8:29
4-Bromofluorobenzene	102	70-130		3/10/16 8:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25

Sample ID: 16C0305-14

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8260C	3/10/16	3/10/16 8:29	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25
Sample ID: 16C0305-14
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS (SIM)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,4-Dioxane	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260C	3/11/16	3/12/16 0:53	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,4-Dioxane-d8	157	40-160		3/12/16 0:53

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25
Sample ID: 16C0305-14
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1		SW-846 8270D	3/8/16	3/13/16 0:39	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/13/16 0:39	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	3/8/16	3/13/16 0:39	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	3/8/16	3/13/16 0:39	CMR
Acenaphthene	ND	0.21	0.062	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Acenaphthylene	ND	0.21	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Acetophenone	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Anthracene	ND	0.21	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Benzo(a)anthracene	ND	0.21	0.054	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Benzo(a)pyrene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Benzo(b)fluoranthene	ND	0.21	0.058	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Benzo(g,h,i)perylene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Benzo(k)fluoranthene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.079	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
4-Bromophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Butylbenzylphthalate	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Carbazole	ND	0.21	0.053	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
4-Chloroaniline	ND	0.80	0.094	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
4-Chloro-3-methylphenol	ND	0.80	0.088	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2-Chloronaphthalene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2-Chlorophenol	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
4-Chlorophenylphenylether	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Chrysene	ND	0.21	0.064	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Dibenz(a,h)anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Dibenzofuran	ND	0.41	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Di-n-butylphthalate	ND	0.41	0.089	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
3,3-Dichlorobenzidine	ND	0.21	0.063	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2,4-Dichlorophenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Diethylphthalate	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2,4-Dimethylphenol	ND	0.41	0.076	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Dimethylphthalate	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2,4-Dinitrophenol	ND	0.80	0.23	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2,4-Dinitrotoluene	ND	0.41	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2,6-Dinitrotoluene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Di-n-octylphthalate	ND	0.41	0.22	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Fluoranthene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Fluorene	ND	0.21	0.066	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Hexachlorobenzene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Hexachlorobutadiene	ND	0.41	0.072	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Hexachlorocyclopentadiene	ND	0.41	0.087	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Hexachloroethane	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25
Sample ID: 16C0305-14
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Indeno(1,2,3-cd)pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Isophorone	ND	0.41	0.080	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2-Methylnaphthalene	ND	0.21	0.071	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2-Methylphenol	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
3/4-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Naphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
3-Nitroaniline	ND	0.41	0.059	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
4-Nitroaniline	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Nitrobenzene	ND	0.41	0.077	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2-Nitrophenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
4-Nitrophenol	ND	0.80	0.089	mg/Kg dry	1	V-20	SW-846 8270D	3/8/16	3/11/16 17:05	CMR
N-Nitrosodiphenylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.085	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Pentachlorophenol	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Phenol	ND	0.41	0.070	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Pyrene	ND	0.21	0.068	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.074	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2,4,5-Trichlorophenol	ND	0.41	0.093	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
2,4,6-Trichlorophenol	ND	0.41	0.069	mg/Kg dry	1		SW-846 8270D	3/8/16	3/11/16 17:05	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	3/8/16	3/13/16 0:39	CMR

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	79.4		30-130		3/11/16 17:05
Phenol-d6	83.1		30-130		3/11/16 17:05
Nitrobenzene-d5	80.2		30-130		3/11/16 17:05
2-Fluorobiphenyl	97.7		30-130		3/11/16 17:05
2,4,6-Tribromophenol	108		30-130		3/11/16 17:05
p-Terphenyl-d14	**133**	*	30-130	S-07	3/11/16 17:05

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25
Sample ID: 16C0305-14
Sample Matrix: Soil

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Q#	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1			SW-846 8270D	3/8/16	3/11/16 17:05	CMR

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25

Sample ID: 16C0305-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	0.048	3.1	0.030	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Arsenic	1.4	0.29	0.22	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Beryllium	0.47	0.40	0.033	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Chromium	24	7.3	0.46	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Copper	10	7.3	0.075	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Iron	35000	58	26	mg/Kg dry	20		SW-846 6020A/B	3/10/16	3/10/16 12:46	MJH
Lead	10	2.9	0.061	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Manganese	160	7.6	0.099	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Mercury	6.3	28	4.6	µg/kg dry	1	J	SW-846 7471B	3/9/16	3/10/16 10:53	SCB
Nickel	4.5	7.3	0.15	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Selenium	ND	1.2	0.21	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Silver	ND	0.13	0.041	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Thallium	0.081	0.093	0.027	mg/Kg dry	5	J	SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Zinc	15	15	0.23	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH
Cadmium	ND	0.55	0.025	mg/Kg dry	5		SW-846 6020A/B	3/10/16	3/10/16 12:25	MJH

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Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: SB-6 (12.5)
Sampled: 3/7/2016 15:25

Sample ID: 16C0305-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	35	19	mg/Kg dry	1		SM21-22 4500 NH3 C Modified	3/9/16	3/10/16 14:30	VAK
Nitrate as N	ND	2.9	2.8	mg/Kg dry	1		SM 21-22 4500 NO3 F Modified	3/9/16	3/10/16 10:23	JK
Sulfate	ND	240	160	mg/Kg dry	1		ASTM D516-07 Modified	3/11/16	3/11/16 10:35	MMH
% Solids	81.7			% Wt	1		SM 2540G	3/8/16	3/9/16 8:13	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: Trip Blank Water
Sampled: 3/7/2016 00:00
Sample ID: 16C0305-15
Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.9	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Benzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Bromomethane	ND	2.0	0.94	µg/L	1	R-05	SW-846 8260B	3/9/16	3/9/16 18:57	EEH
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Carbon Tetrachloride	ND	5.0	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Chlorobenzene	ND	1.0	0.16	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Chlorodibromomethane	ND	0.50	0.10	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Chloroethane	ND	2.0	0.28	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Chloroform	ND	2.0	0.22	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Cyclohexane	ND	5.0	0.25	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,2-Dibromoethane (EDB)	ND	0.50	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,2-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,3-Dichlorobenzene	ND	1.0	0.17	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,4-Dichlorobenzene	ND	1.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.18	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,2-Dichloropropane	ND	1.0	0.13	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
cis-1,3-Dichloropropene	ND	0.50	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
trans-1,3-Dichloropropene	ND	0.50	0.11	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,4-Dioxane	ND	50	26	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Ethylbenzene	ND	1.0	0.13	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Isopropylbenzene (Cumene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Methyl Acetate	ND	5.0	0.42	µg/L	1	R-05	SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Methylene Chloride	ND	5.0	3.2	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Styrene	ND	1.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,1,2,2-Tetrachloroethane	ND	0.50	0.16	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Tetrachloroethylene	ND	0.50	0.17	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Toluene	ND	1.0	0.17	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,2,4-Trichlorobenzene	ND	1.0	0.19	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC | Sample Description: | Work Order: 16C0305

Date Received: 3/7/2016

Field Sample #: Trip Blank Water | Sampled: 3/7/2016 00:00

Sample ID: 16C0305-15

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Trichloroethylene	ND	1.0	0.20	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.14	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
m+p Xylene	ND	2.0	0.25	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH
o-Xylene	ND	1.0	0.13	µg/L	1		SW-846 8260B	3/9/16	3/9/16 18:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.5	70-130		3/9/16 18:57
Toluene-d8	96.9	70-130		3/9/16 18:57
4-Bromofluorobenzene	95.6	70-130		3/9/16 18:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: Trip Blank Soil
Sampled: 3/7/2016 00:00
Sample ID: 16C0305-16
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1	R-05	SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1	R-05	SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Carbon Disulfide	ND	0.0060	0.0035	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1	L-04	SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Raleigh, NC
Sample Description:
Work Order: 16C0305
Date Received: 3/7/2016
Field Sample #: Trip Blank Soil
Sampled: 3/7/2016 00:00
Sample ID: 16C0305-16
Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Trichloroethylene	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	3/10/16	3/10/16 8:57	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.4	70-130		3/10/16 8:57
Toluene-d8	96.2	70-130		3/10/16 8:57
4-Bromofluorobenzene	102	70-130		3/10/16 8:57

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

ASTM D516-07

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16C0305-08 [EB-1]	B144081	100	100	03/11/16

ASTM D516-07 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-01 [SB-4 (4.5)]	B143849	1.15	100	03/11/16
16C0305-02 [SB-5 (4)]	B143849	1.08	100	03/11/16
16C0305-03 [SB-5 (5)]	B143849	1.00	100	03/11/16
16C0305-04 [SB-5 (12.5)]	B143849	1.02	100	03/11/16
16C0305-05 [SB-1 (3.5)]	B143849	1.01	100	03/11/16
16C0305-06 [SB-1 (10)]	B143849	1.05	100	03/11/16
16C0305-07 [DUP-A]	B143849	1.06	100	03/11/16
16C0305-09 [SB-1 (5-10)]	B143849	1.07	100	03/11/16
16C0305-10 [SB-4 (5-10)]	B143849	1.06	100	03/11/16

ASTM D516-07 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-11 [SB-4 (10-15)]	B143852	1.05	100	03/11/16
16C0305-12 [SB-6 (7.5)]	B143852	1.03	100	03/11/16
16C0305-13 [SB-6 (10)]	B143852	1.00	100	03/11/16
16C0305-14 [SB-6 (12.5)]	B143852	1.01	100	03/11/16

SM 21-22 4500 NO3 F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16C0305-08 [EB-1]	B143793	25.0	25.0	03/08/16

SM 21-22 4500 NO3 F Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-01 [SB-4 (4.5)]	B143821	1.16	50.0	03/09/16
16C0305-02 [SB-5 (4)]	B143821	1.12	50.0	03/09/16
16C0305-03 [SB-5 (5)]	B143821	1.00	50.0	03/09/16
16C0305-04 [SB-5 (12.5)]	B143821	1.08	50.0	03/09/16
16C0305-05 [SB-1 (3.5)]	B143821	1.05	50.0	03/09/16
16C0305-06 [SB-1 (10)]	B143821	1.10	50.0	03/09/16

SM 21-22 4500 NO3 F Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-09 [SB-1 (5-10)]	B143822	1.03	50.0	03/09/16
16C0305-10 [SB-4 (5-10)]	B143822	1.06	50.0	03/09/16
16C0305-11 [SB-4 (10-15)]	B143822	1.02	50.0	03/09/16
16C0305-12 [SB-6 (7.5)]	B143822	1.03	50.0	03/09/16
16C0305-13 [SB-6 (10)]	B143822	1.04	50.0	03/09/16
16C0305-14 [SB-6 (12.5)]	B143822	1.05	50.0	03/09/16

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

SM 21-22 4500 NO3 F Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-07 [DUP-A]	B143918	10700	50.0	03/10/16

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
16C0305-01 [SB-4 (4.5)]	B143794	03/08/16
16C0305-02 [SB-5 (4)]	B143794	03/08/16
16C0305-03 [SB-5 (5)]	B143794	03/08/16
16C0305-04 [SB-5 (12.5)]	B143794	03/08/16
16C0305-05 [SB-1 (3.5)]	B143794	03/08/16
16C0305-06 [SB-1 (10)]	B143794	03/08/16
16C0305-07 [DUP-A]	B143794	03/08/16
16C0305-09 [SB-1 (5-10)]	B143794	03/08/16
16C0305-10 [SB-4 (5-10)]	B143794	03/08/16
16C0305-11 [SB-4 (10-15)]	B143794	03/08/16
16C0305-12 [SB-6 (7.5)]	B143794	03/08/16
16C0305-13 [SB-6 (10)]	B143794	03/08/16
16C0305-14 [SB-6 (12.5)]	B143794	03/08/16

SM19-22 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16C0305-08 [EB-1]	B143886	100	100	03/09/16

SM21-22 4500 NH3 C Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-01 [SB-4 (4.5)]	B143862	1.06	100	03/09/16
16C0305-02 [SB-5 (4)]	B143862	1.02	100	03/09/16
16C0305-03 [SB-5 (5)]	B143862	1.08	100	03/09/16
16C0305-04 [SB-5 (12.5)]	B143862	1.03	100	03/09/16
16C0305-05 [SB-1 (3.5)]	B143862	1.06	100	03/09/16
16C0305-06 [SB-1 (10)]	B143862	1.03	100	03/09/16
16C0305-07 [DUP-A]	B143862	1.04	100	03/09/16
16C0305-09 [SB-1 (5-10)]	B143862	1.11	100	03/09/16
16C0305-10 [SB-4 (5-10)]	B143862	1.09	100	03/09/16
16C0305-11 [SB-4 (10-15)]	B143862	1.18	100	03/09/16
16C0305-12 [SB-6 (7.5)]	B143862	1.17	100	03/09/16
16C0305-13 [SB-6 (10)]	B143862	1.03	100	03/09/16
16C0305-14 [SB-6 (12.5)]	B143862	1.05	100	03/09/16

Prep Method: SW-846 3050B-SW-846 6020A/B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-01 [SB-4 (4.5)]	B143829	1.04	50.0	03/10/16
16C0305-02 [SB-5 (4)]	B143829	1.05	50.0	03/10/16
16C0305-03 [SB-5 (5)]	B143829	1.08	50.0	03/10/16
16C0305-04 [SB-5 (12.5)]	B143829	1.04	50.0	03/10/16
16C0305-05 [SB-1 (3.5)]	B143829	1.03	50.0	03/10/16
16C0305-06 [SB-1 (10)]	B143829	1.04	50.0	03/10/16

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6020A/B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-07 [DUP-A]	B143829	1.05	50.0	03/10/16
16C0305-09 [SB-1 (5-10)]	B143829	1.07	50.0	03/10/16
16C0305-10 [SB-4 (5-10)]	B143829	1.06	50.0	03/10/16
16C0305-11 [SB-4 (10-15)]	B143829	1.01	50.0	03/10/16
16C0305-12 [SB-6 (7.5)]	B143829	0.990	50.0	03/10/16
16C0305-13 [SB-6 (10)]	B143829	1.02	50.0	03/10/16
16C0305-14 [SB-6 (12.5)]	B143829	1.05	50.0	03/10/16

Prep Method: SW-846 3005A-SW-846 6020A/B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16C0305-08 [EB-1]	B143883	50.0	50.0	03/09/16

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16C0305-08 [EB-1]	B143868	6.00	6.00	03/09/16

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-01 [SB-4 (4.5)]	B143826	0.613	50.0	03/09/16
16C0305-02 [SB-5 (4)]	B143826	0.628	50.0	03/09/16
16C0305-03 [SB-5 (5)]	B143826	0.687	50.0	03/09/16
16C0305-04 [SB-5 (12.5)]	B143826	0.612	50.0	03/09/16
16C0305-05 [SB-1 (3.5)]	B143826	0.683	50.0	03/09/16
16C0305-06 [SB-1 (10)]	B143826	0.632	50.0	03/09/16
16C0305-07 [DUP-A]	B143826	0.685	50.0	03/09/16
16C0305-09 [SB-1 (5-10)]	B143826	0.641	50.0	03/09/16
16C0305-10 [SB-4 (5-10)]	B143826	0.640	50.0	03/09/16
16C0305-11 [SB-4 (10-15)]	B143826	0.629	50.0	03/09/16
16C0305-12 [SB-6 (7.5)]	B143826	0.666	50.0	03/09/16
16C0305-13 [SB-6 (10)]	B143826	0.664	50.0	03/09/16
16C0305-14 [SB-6 (12.5)]	B143826	0.664	50.0	03/09/16

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-01 [SB-4 (4.5)]	B143867	4.83	10.0	03/09/16
16C0305-02 [SB-5 (4)]	B143867	5.96	10.0	03/09/16
16C0305-03 [SB-5 (5)]	B143867	5.50	10.0	03/09/16
16C0305-04 [SB-5 (12.5)]	B143867	6.30	10.0	03/09/16
16C0305-05 [SB-1 (3.5)]	B143867	5.93	10.0	03/09/16
16C0305-06 [SB-1 (10)]	B143867	7.35	10.0	03/09/16
16C0305-07 [DUP-A]	B143867	3.64	10.0	03/09/16
16C0305-09 [SB-1 (5-10)]	B143867	6.34	10.0	03/09/16
16C0305-10 [SB-4 (5-10)]	B143867	4.71	10.0	03/09/16
16C0305-11 [SB-4 (10-15)]	B143867	5.45	10.0	03/09/16
16C0305-12 [SB-6 (7.5)]	B143867	4.01	10.0	03/09/16
16C0305-13 [SB-6 (10)]	B143867	6.15	10.0	03/09/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-14 [SB-6 (12.5)]	B143969	6.84	10.0	03/10/16
16C0305-16 [Trip Blank Soil]	B143969	5.00	10.0	03/10/16

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16C0305-08 [EB-1]	B143856	5	5.00	03/09/16
16C0305-15 [Trip Blank Water]	B143856	5	5.00	03/09/16

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-01 [SB-4 (4.5)]	B144066	4.83	5.00	03/11/16
16C0305-02 [SB-5 (4)]	B144066	5.96	5.00	03/11/16
16C0305-03 [SB-5 (5)]	B144066	5.50	5.00	03/11/16
16C0305-04 [SB-5 (12.5)]	B144066	6.30	5.00	03/11/16
16C0305-05 [SB-1 (3.5)]	B144066	5.93	5.00	03/11/16
16C0305-06 [SB-1 (10)]	B144066	7.35	5.00	03/11/16
16C0305-07 [DUP-A]	B144066	3.64	5.00	03/11/16
16C0305-09 [SB-1 (5-10)]	B144066	6.34	5.00	03/11/16
16C0305-10 [SB-4 (5-10)]	B144066	4.71	5.00	03/11/16
16C0305-11 [SB-4 (10-15)]	B144066	5.45	5.00	03/11/16
16C0305-12 [SB-6 (7.5)]	B144066	4.01	5.00	03/11/16
16C0305-13 [SB-6 (10)]	B144066	6.15	5.00	03/11/16
16C0305-14 [SB-6 (12.5)]	B144066	5.63	5.00	03/11/16

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16C0305-08 [EB-1]	B144068	5	5.00	03/11/16

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16C0305-01 [SB-4 (4.5)]	B143797	30.6	1.00	03/08/16
16C0305-02 [SB-5 (4)]	B143797	30.4	1.00	03/08/16
16C0305-03 [SB-5 (5)]	B143797	30.2	1.00	03/08/16
16C0305-04 [SB-5 (12.5)]	B143797	30.4	1.00	03/08/16
16C0305-05 [SB-1 (3.5)]	B143797	30.0	1.00	03/08/16
16C0305-06 [SB-1 (10)]	B143797	30.3	1.00	03/08/16
16C0305-07 [DUP-A]	B143797	30.0	1.00	03/08/16
16C0305-09 [SB-1 (5-10)]	B143797	30.0	1.00	03/08/16
16C0305-09RE1 [SB-1 (5-10)]	B143797	30.0	1.00	03/08/16
16C0305-10 [SB-4 (5-10)]	B143797	30.1	1.00	03/08/16
16C0305-11 [SB-4 (10-15)]	B143797	30.1	1.00	03/08/16
16C0305-12 [SB-6 (7.5)]	B143797	30.1	1.00	03/08/16
16C0305-13 [SB-6 (10)]	B143797	30.2	1.00	03/08/16
16C0305-14 [SB-6 (12.5)]	B143797	30.4	1.00	03/08/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16C0305-08 [EB-1]	B143804	900	0.900	03/09/16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143856 - SW-846 5030B										
Blank (B143856-BLK1)				Prepared & Analyzed: 03/09/16						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							R-05
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							R-05
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	0.50	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143856 - SW-846 5030B												
Blank (B143856-BLK1)				Prepared & Analyzed: 03/09/16								
o-Xylene	ND	1.0	µg/L									
Surrogate: 1,2-Dichloroethane-d4	*23.6*		µg/L	25.0		94.4		70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.8		70-130				
Surrogate: 4-Bromofluorobenzene	*24.4*		µg/L	25.0		97.4		70-130				
LCS (B143856-BS1)				Prepared & Analyzed: 03/09/16								
Acetone	227	50	µg/L	100		**227**	*	70-160			L-02	†
Benzene	10.0	1.0	µg/L	10.0		100		70-130				
Bromochloromethane	10.3	1.0	µg/L	10.0		103		70-130				
Bromodichloromethane	9.71	0.50	µg/L	10.0		97.1		70-130				
Bromoform	10.8	1.0	µg/L	10.0		108		70-130				
Bromomethane	4.42	2.0	µg/L	10.0		44.2		40-160			R-05	†
2-Butanone (MEK)	178	20	µg/L	100		**178**	*	40-160			L-02	†
Carbon Disulfide	7.63	4.0	µg/L	10.0		76.3		70-130				
Carbon Tetrachloride	10.8	5.0	µg/L	10.0		108		70-130				
Chlorobenzene	10.0	1.0	µg/L	10.0		100		70-130				
Chlorodibromomethane	9.58	0.50	µg/L	10.0		95.8		70-130				
Chloroethane	10.6	2.0	µg/L	10.0		106		70-130				
Chloroform	9.99	2.0	µg/L	10.0		99.9		70-130				
Chloromethane	7.09	2.0	µg/L	10.0		70.9		40-160				†
Cyclohexane	10.1	5.0	µg/L	10.0		101		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109		70-130				
1,2-Dibromoethane (EDB)	9.91	0.50	µg/L	10.0		99.1		70-130				
1,2-Dichlorobenzene	9.53	1.0	µg/L	10.0		95.3		70-130				
1,3-Dichlorobenzene	9.22	1.0	µg/L	10.0		92.2		70-130				
1,4-Dichlorobenzene	9.41	1.0	µg/L	10.0		94.1		70-130				
Dichlorodifluoromethane (Freon 12)	6.91	2.0	µg/L	10.0		69.1		40-160				†
1,1-Dichloroethane	9.92	1.0	µg/L	10.0		99.2		70-130				
1,2-Dichloroethane	9.71	1.0	µg/L	10.0		97.1		70-130				
1,1-Dichloroethylene	9.49	1.0	µg/L	10.0		94.9		70-130				
cis-1,2-Dichloroethylene	9.73	1.0	µg/L	10.0		97.3		70-130				
trans-1,2-Dichloroethylene	9.62	1.0	µg/L	10.0		96.2		70-130				
1,2-Dichloropropane	9.57	1.0	µg/L	10.0		95.7		70-130				
cis-1,3-Dichloropropene	8.67	0.50	µg/L	10.0		86.7		70-130				
trans-1,3-Dichloropropene	9.41	0.50	µg/L	10.0		94.1		70-130				
1,4-Dioxane	128	50	µg/L	100		128		40-130				†
Ethylbenzene	10.2	1.0	µg/L	10.0		102		70-130				
2-Hexanone (MBK)	161	10	µg/L	100		**161**	*	70-160			L-02	†
Isopropylbenzene (Cumene)	9.80	1.0	µg/L	10.0		98.0		70-130				
Methyl Acetate	9.27	1.0	µg/L	10.0		92.7		70-130			R-05	
Methyl tert-Butyl Ether (MTBE)	9.17	1.0	µg/L	10.0		91.7		70-130				
Methyl Cyclohexane	10.6	1.0	µg/L	10.0		106		70-130				
Methylene Chloride	9.94	5.0	µg/L	10.0		99.4		70-130				
4-Methyl-2-pentanone (MIBK)	108	10	µg/L	100		108		70-160				†
Styrene	9.96	1.0	µg/L	10.0		99.6		70-130				
1,1,2,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101		70-130				
Tetrachloroethylene	11.2	0.50	µg/L	10.0		112		70-130				
Toluene	9.70	1.0	µg/L	10.0		97.0		70-130				
1,2,3-Trichlorobenzene	10.8	5.0	µg/L	10.0		108		70-130				
1,2,4-Trichlorobenzene	10.2	1.0	µg/L	10.0		102		70-130				
1,1,1-Trichloroethane	10.4	1.0	µg/L	10.0		104		70-130				
1,1,2-Trichloroethane	10.1	1.0	µg/L	10.0		101		70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B143856 - SW-846 5030B													
LCS (B143856-BS1)				Prepared & Analyzed: 03/09/16									
Trichloroethylene	10.8	1.0	µg/L	10.0		108		70-130					
Trichlorofluoromethane (Freon 11)	10.1	2.0	µg/L	10.0		101		70-130					
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.16	1.0	µg/L	10.0		91.6		70-130					
Vinyl Chloride	9.09	2.0	µg/L	10.0		90.9		40-160					†
m+p Xylene	20.1	2.0	µg/L	20.0		101		70-130					
o-Xylene	10.0	1.0	µg/L	10.0		100		70-130					
Surrogate: 1,2-Dichloroethane-d4	*24.1*		µg/L	25.0		96.3		70-130					
Surrogate: Toluene-d8	*24.3*		µg/L	25.0		97.1		70-130					
Surrogate: 4-Bromofluorobenzene	*24.1*		µg/L	25.0		96.6		70-130					
LCS Dup (B143856-BSD1)				Prepared & Analyzed: 03/09/16									
Acetone	242	50	µg/L	100		**242**	*	70-160	6.59		25	L-02	†
Benzene	9.78	1.0	µg/L	10.0		97.8		70-130	2.32		25		
Bromochloromethane	10.3	1.0	µg/L	10.0		103		70-130	0.0974		25		
Bromodichloromethane	9.61	0.50	µg/L	10.0		96.1		70-130	1.04		25		
Bromoform	11.1	1.0	µg/L	10.0		111		70-130	2.83		25		
Bromomethane	5.69	2.0	µg/L	10.0		56.9		40-160	**25.1**	*	25	R-05	†
2-Butanone (MEK)	194	20	µg/L	100		**194**	*	40-160	8.23		25	L-02	†
Carbon Disulfide	7.19	4.0	µg/L	10.0		71.9		70-130	5.94		25		
Carbon Tetrachloride	10.2	5.0	µg/L	10.0		102		70-130	5.24		25		
Chlorobenzene	9.78	1.0	µg/L	10.0		97.8		70-130	2.32		25		
Chlorodibromomethane	9.43	0.50	µg/L	10.0		94.3		70-130	1.58		25		
Chloroethane	10.5	2.0	µg/L	10.0		105		70-130	1.04		25		
Chloroform	9.58	2.0	µg/L	10.0		95.8		70-130	4.19		25		
Chloromethane	6.73	2.0	µg/L	10.0		67.3		40-160	5.21		25		†
Cyclohexane	9.83	5.0	µg/L	10.0		98.3		70-130	2.91		25		
1,2-Dibromo-3-chloropropane (DBCP)	11.4	5.0	µg/L	10.0		114		70-130	4.04		25		
1,2-Dibromoethane (EDB)	10.4	0.50	µg/L	10.0		104		70-130	4.63		25		
1,2-Dichlorobenzene	9.71	1.0	µg/L	10.0		97.1		70-130	1.87		25		
1,3-Dichlorobenzene	9.54	1.0	µg/L	10.0		95.4		70-130	3.41		25		
1,4-Dichlorobenzene	9.58	1.0	µg/L	10.0		95.8		70-130	1.79		25		
Dichlorodifluoromethane (Freon 12)	6.71	2.0	µg/L	10.0		67.1		40-160	2.94		25		†
1,1-Dichloroethane	9.81	1.0	µg/L	10.0		98.1		70-130	1.12		25		
1,2-Dichloroethane	9.86	1.0	µg/L	10.0		98.6		70-130	1.53		25		
1,1-Dichloroethylene	9.40	1.0	µg/L	10.0		94.0		70-130	0.953		25		
cis-1,2-Dichloroethylene	9.33	1.0	µg/L	10.0		93.3		70-130	4.20		25		
trans-1,2-Dichloroethylene	9.29	1.0	µg/L	10.0		92.9		70-130	3.49		25		
1,2-Dichloropropane	9.35	1.0	µg/L	10.0		93.5		70-130	2.33		25		
cis-1,3-Dichloropropene	8.35	0.50	µg/L	10.0		83.5		70-130	3.76		25		
trans-1,3-Dichloropropene	9.39	0.50	µg/L	10.0		93.9		70-130	0.213		25		
1,4-Dioxane	128	50	µg/L	100		128		40-130	0.375		50		† ‡
Ethylbenzene	10.0	1.0	µg/L	10.0		100		70-130	1.48		25		
2-Hexanone (MBK)	170	10	µg/L	100		**170**	*	70-160	5.82		25	L-02	†
Isopropylbenzene (Cumene)	9.58	1.0	µg/L	10.0		95.8		70-130	2.27		25		
Methyl Acetate	13.0	1.0	µg/L	10.0		130		70-130	**33.5**	*	25	R-05	
Methyl tert-Butyl Ether (MTBE)	9.31	1.0	µg/L	10.0		93.1		70-130	1.52		25		
Methyl Cyclohexane	10.3	1.0	µg/L	10.0		103		70-130	2.20		25		
Methylene Chloride	9.70	5.0	µg/L	10.0		97.0		70-130	2.44		25		
4-Methyl-2-pentanone (MIBK)	116	10	µg/L	100		116		70-160	6.78		25		†
Styrene	9.72	1.0	µg/L	10.0		97.2		70-130	2.44		25		
1,1,2,2-Tetrachloroethane	10.6	0.50	µg/L	10.0		106		70-130	5.41		25		
Tetrachloroethylene	10.8	0.50	µg/L	10.0		108		70-130	3.19		25		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143856 - SW-846 5030B										
LCS Dup (B143856-BSD1)				Prepared & Analyzed: 03/09/16						
Toluene	9.55	1.0	µg/L	10.0		95.5	70-130	1.56	25	
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.0		117	70-130	7.56	25	
1,2,4-Trichlorobenzene	10.5	1.0	µg/L	10.0		105	70-130	2.22	25	
1,1,1-Trichloroethane	9.86	1.0	µg/L	10.0		98.6	70-130	5.04	25	
1,1,2-Trichloroethane	10.0	1.0	µg/L	10.0		100	70-130	1.09	25	
Trichloroethylene	10.5	1.0	µg/L	10.0		105	70-130	2.73	25	
Trichlorofluoromethane (Freon 11)	10.0	2.0	µg/L	10.0		100	70-130	0.994	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.77	1.0	µg/L	10.0		97.7	70-130	6.44	25	
Vinyl Chloride	7.21	2.0	µg/L	10.0		72.1	40-160	23.1	25	†
m+p Xylene	19.8	2.0	µg/L	20.0		99.2	70-130	1.40	25	
o-Xylene	9.86	1.0	µg/L	10.0		98.6	70-130	1.61	25	
Surrogate: 1,2-Dichloroethane-d4	*23.7*		µg/L	25.0		94.8	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		97.8	70-130			
Surrogate: 4-Bromofluorobenzene	*24.2*		µg/L	25.0		97.0	70-130			
Batch B143867 - SW-846 5035										
Blank (B143867-BLK1)				Prepared & Analyzed: 03/09/16						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143867 - SW-846 5035												
Blank (B143867-BLK1)				Prepared & Analyzed: 03/09/16								
Methyl Acetate	ND	0.0020	mg/Kg wet									
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet									
Methylene Chloride	ND	0.020	mg/Kg wet									
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0462*		mg/Kg wet	0.0500		92.4		70-130				
Surrogate: Toluene-d8	*0.0480*		mg/Kg wet	0.0500		96.0		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0494*		mg/Kg wet	0.0500		98.7		70-130				
LCS (B143867-BS1)				Prepared & Analyzed: 03/09/16								
Acetone	0.217	0.10	mg/Kg wet	0.200		108		70-160				†
Benzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0		70-130				
Bromobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130				
Bromochloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.6		70-130				
Bromodichloromethane	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130				
Bromoform	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130				
Bromomethane	0.0102	0.010	mg/Kg wet	0.0200		51.2		40-130				†
2-Butanone (MEK)	0.181	0.040	mg/Kg wet	0.200		90.5		70-160				†
Carbon Disulfide	0.0164	0.0060	mg/Kg wet	0.0200		81.9		70-130				
Carbon Tetrachloride	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
Chlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130				
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.0200		102		70-130				
Chloroethane	0.0184	0.020	mg/Kg wet	0.0200		92.0		70-130			J	
Chloroform	0.0188	0.0040	mg/Kg wet	0.0200		93.8		70-130				
Chloromethane	0.0133	0.010	mg/Kg wet	0.0200		**66.6**	*	70-130			L-04	
Cyclohexane	0.0163	0.0020	mg/Kg wet	0.0200		81.5		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0152	0.0020	mg/Kg wet	0.0200		75.8		70-130				
1,2-Dibromoethane (EDB)	0.0208	0.0010	mg/Kg wet	0.0200		104		70-130				
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
1,3-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130				
1,4-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130				
Dichlorodifluoromethane (Freon 12)	0.0142	0.020	mg/Kg wet	0.0200		71.2		40-160			J	†
1,1-Dichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.3		70-130				
1,2-Dichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130				
1,1-Dichloroethylene	0.0165	0.0040	mg/Kg wet	0.0200		82.5		70-130				
cis-1,2-Dichloroethylene	0.0174	0.0020	mg/Kg wet	0.0200		87.1		70-130				
trans-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.6		70-130				
1,2-Dichloropropane	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130				
cis-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.5		70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143867 - SW-846 5035												
LCS (B143867-BS1)				Prepared & Analyzed: 03/09/16								
trans-1,3-Dichloropropene	0.0185	0.0010	mg/Kg wet	0.0200		92.5		70-130				
1,4-Dioxane	0.173	0.10	mg/Kg wet	0.200		86.3		40-160				†
Ethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
2-Hexanone (MBK)	0.179	0.020	mg/Kg wet	0.200		89.7		70-160				†
Isopropylbenzene (Cumene)	0.0232	0.0020	mg/Kg wet	0.0200		116		70-130				
Methyl Acetate	0.0155	0.0020	mg/Kg wet	0.0200		77.3		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0186	0.0040	mg/Kg wet	0.0200		93.1		70-130				
Methylene Chloride	0.0150	0.020	mg/Kg wet	0.0200		75.2		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.164	0.020	mg/Kg wet	0.200		81.8		70-160				†
Styrene	0.0228	0.0020	mg/Kg wet	0.0200		114		70-130				
1,1,2,2-Tetrachloroethane	0.0209	0.0010	mg/Kg wet	0.0200		104		70-130				
Tetrachloroethylene	0.0231	0.0020	mg/Kg wet	0.0200		115		70-130				
Toluene	0.0186	0.0020	mg/Kg wet	0.0200		92.9		70-130				
1,2,3-Trichlorobenzene	0.0159	0.0020	mg/Kg wet	0.0200		79.6		70-130				
1,2,4-Trichlorobenzene	0.0162	0.0020	mg/Kg wet	0.0200		81.2		70-130				
1,1,1-Trichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130				
1,1,2-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
Trichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0		70-130				
Trichlorofluoromethane (Freon 11)	0.0177	0.010	mg/Kg wet	0.0200		88.3		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0179	0.010	mg/Kg wet	0.0200		89.3		70-130				
Vinyl Chloride	0.0150	0.010	mg/Kg wet	0.0200		75.1		40-130				†
m+p Xylene	0.0438	0.0040	mg/Kg wet	0.0400		110		70-130				
o-Xylene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0460*		mg/Kg wet	0.0500		92.0		70-130				
Surrogate: Toluene-d8	*0.0483*		mg/Kg wet	0.0500		96.7		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0519*		mg/Kg wet	0.0500		104		70-130				
LCS Dup (B143867-BSD1)				Prepared & Analyzed: 03/09/16								
Acetone	0.234	0.10	mg/Kg wet	0.200		117		70-160	7.47	25		†
Benzene	0.0178	0.0020	mg/Kg wet	0.0200		88.9		70-130	3.43	25		
Bromobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	1.78	25		
Bromochloromethane	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130	0.770	25		
Bromodichloromethane	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130	1.29	25		
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130	2.07	25		
Bromomethane	0.0121	0.010	mg/Kg wet	0.0200		60.5		40-130	16.7	25		†
2-Butanone (MEK)	0.188	0.040	mg/Kg wet	0.200		93.8		70-160	3.50	25		†
Carbon Disulfide	0.0157	0.0060	mg/Kg wet	0.0200		78.5		70-130	4.24	25		
Carbon Tetrachloride	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130	1.15	25		
Chlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130	0.183	25		
Chlorodibromomethane	0.0205	0.0010	mg/Kg wet	0.0200		103		70-130	0.195	25		
Chloroethane	0.0176	0.020	mg/Kg wet	0.0200		88.0		70-130	4.44	25	J	
Chloroform	0.0183	0.0040	mg/Kg wet	0.0200		91.5		70-130	2.48	25		
Chloromethane	0.0124	0.010	mg/Kg wet	0.0200		**61.8**	*	70-130	7.48	25	L-04	
Cyclohexane	0.0162	0.0020	mg/Kg wet	0.0200		81.2		70-130	0.369	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0152	0.0020	mg/Kg wet	0.0200		76.0		70-130	0.264	25		
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.0200		101		70-130	2.82	25		
1,2-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	3.95	25		
1,3-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	1.84	25		
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.2		70-130	5.75	25		
Dichlorodifluoromethane (Freon 12)	0.0137	0.020	mg/Kg wet	0.0200		68.3		40-160	4.16	25	J	†
1,1-Dichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.9		70-130	3.71	25		
1,2-Dichloroethane	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130	3.54	25		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B143867 - SW-846 5035											
LCS Dup (B143867-BSD1)				Prepared & Analyzed: 03/09/16							
1,1-Dichloroethylene	0.0162	0.0040	mg/Kg wet	0.0200		81.0	70-130	1.83	25		
cis-1,2-Dichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		85.9	70-130	1.39	25		
trans-1,2-Dichloroethylene	0.0172	0.0020	mg/Kg wet	0.0200		86.2	70-130	2.75	25		
1,2-Dichloropropane	0.0187	0.0020	mg/Kg wet	0.0200		93.7	70-130	1.38	25		
cis-1,3-Dichloropropene	0.0180	0.0010	mg/Kg wet	0.0200		90.2	70-130	0.332	25		
trans-1,3-Dichloropropene	0.0184	0.0010	mg/Kg wet	0.0200		91.9	70-130	0.651	25		
1,4-Dioxane	0.182	0.10	mg/Kg wet	0.200		90.9	40-160	5.24	50		† ‡
Ethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	0.913	25		
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		91.1	70-160	1.57	25		†
Isopropylbenzene (Cumene)	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130	1.47	25		
Methyl Acetate	0.0150	0.0020	mg/Kg wet	0.0200		74.9	70-130	3.15	25		
Methyl tert-Butyl Ether (MTBE)	0.0182	0.0040	mg/Kg wet	0.0200		91.2	70-130	2.06	25		
Methylene Chloride	0.0151	0.020	mg/Kg wet	0.0200		75.5	40-160	0.398	25	J	†
4-Methyl-2-pentanone (MIBK)	0.162	0.020	mg/Kg wet	0.200		80.9	70-160	1.09	25		†
Styrene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	2.31	25		
1,1,2,2-Tetrachloroethane	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130	1.93	25		
Tetrachloroethylene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	2.31	25		
Toluene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	0.00	25		
1,2,3-Trichlorobenzene	0.0149	0.0020	mg/Kg wet	0.0200		74.5	70-130	6.62	25		
1,2,4-Trichlorobenzene	0.0152	0.0020	mg/Kg wet	0.0200		75.8	70-130	6.88	25		
1,1,1-Trichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		98.8	70-130	2.36	25		
1,1,2-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	2.05	25		
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	1.30	25		
Trichlorofluoromethane (Freon 11)	0.0173	0.010	mg/Kg wet	0.0200		86.4	70-130	2.18	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0180	0.010	mg/Kg wet	0.0200		90.2	70-130	1.00	25		
Vinyl Chloride	0.0153	0.010	mg/Kg wet	0.0200		76.4	40-130	1.72	25		†
m+p Xylene	0.0433	0.0040	mg/Kg wet	0.0400		108	70-130	1.19	25		
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	0.752	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0459*		mg/Kg wet	0.0500		91.9	70-130				
Surrogate: Toluene-d8	*0.0485*		mg/Kg wet	0.0500		97.1	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0530*		mg/Kg wet	0.0500		106	70-130				
Batch B143969 - SW-846 5035											
Blank (B143969-BLK1)				Prepared & Analyzed: 03/10/16							
Acetone	ND	0.10	mg/Kg wet							R-05	
Benzene	ND	0.0020	mg/Kg wet								
Bromobenzene	ND	0.0020	mg/Kg wet								
Bromochloromethane	ND	0.0020	mg/Kg wet								
Bromodichloromethane	ND	0.0020	mg/Kg wet								
Bromoform	ND	0.0020	mg/Kg wet								
Bromomethane	ND	0.010	mg/Kg wet								
2-Butanone (MEK)	ND	0.040	mg/Kg wet							R-05	
Carbon Disulfide	ND	0.0060	mg/Kg wet								
Carbon Tetrachloride	ND	0.0020	mg/Kg wet								
Chlorobenzene	ND	0.0020	mg/Kg wet								
Chlorodibromomethane	ND	0.0010	mg/Kg wet								
Chloroethane	ND	0.020	mg/Kg wet								
Chloroform	ND	0.0040	mg/Kg wet								
Chloromethane	ND	0.010	mg/Kg wet							L-04	
Cyclohexane	ND	0.0020	mg/Kg wet								
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet								

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B143969 - SW-846 5035											
Blank (B143969-BLK1)				Prepared & Analyzed: 03/10/16							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet								
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet								
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet								
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet								
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet								
1,1-Dichloroethane	ND	0.0020	mg/Kg wet								
1,2-Dichloroethane	ND	0.0020	mg/Kg wet								
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet								
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet								
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet								
1,2-Dichloropropane	ND	0.0020	mg/Kg wet								
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet								
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet								
1,4-Dioxane	ND	0.10	mg/Kg wet								
Ethylbenzene	ND	0.0020	mg/Kg wet								
2-Hexanone (MBK)	ND	0.020	mg/Kg wet								
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet								
Methyl Acetate	ND	0.0020	mg/Kg wet								
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet								
Methylene Chloride	ND	0.020	mg/Kg wet								
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet								
Styrene	ND	0.0020	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet								
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0452*		mg/Kg wet	0.0500		90.3	70-130				
Surrogate: Toluene-d8	*0.0468*		mg/Kg wet	0.0500		93.5	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0507*		mg/Kg wet	0.0500		101	70-130				
LCS (B143969-BS1)				Prepared & Analyzed: 03/10/16							
Acetone	0.314	0.10	mg/Kg wet	0.200		157	70-160			R-05	†
Benzene	0.0187	0.0020	mg/Kg wet	0.0200		93.3	70-130				
Bromobenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130				
Bromochloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6	70-130				
Bromodichloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130				
Bromoform	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130				
Bromomethane	0.00990	0.010	mg/Kg wet	0.0200		49.5	40-130			J	†
2-Butanone (MEK)	0.239	0.040	mg/Kg wet	0.200		120	70-160			R-05	†
Carbon Disulfide	0.0163	0.0060	mg/Kg wet	0.0200		81.4	70-130				
Carbon Tetrachloride	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130				
Chlorobenzene	0.0229	0.0020	mg/Kg wet	0.0200		114	70-130				
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143969 - SW-846 5035												
LCS (B143969-BS1)				Prepared & Analyzed: 03/10/16								
Chloroethane	0.0171	0.020	mg/Kg wet	0.0200		85.7		70-130			J	
Chloroform	0.0195	0.0040	mg/Kg wet	0.0200		97.3		70-130				
Chloromethane	0.0132	0.010	mg/Kg wet	0.0200		**66.0**	*	70-130			L-04	
Cyclohexane	0.0165	0.0020	mg/Kg wet	0.0200		82.3		70-130				
1,2-Dibromo-3-chloropropane (DBCP)	0.0176	0.0020	mg/Kg wet	0.0200		88.1		70-130				
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108		70-130				
1,2-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130				
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
1,4-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130				
Dichlorodifluoromethane (Freon 12)	0.0138	0.020	mg/Kg wet	0.0200		68.8		40-160			J	†
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5		70-130				
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130				
1,1-Dichloroethylene	0.0163	0.0040	mg/Kg wet	0.0200		81.6		70-130				
cis-1,2-Dichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.4		70-130				
trans-1,2-Dichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.5		70-130				
1,2-Dichloropropane	0.0198	0.0020	mg/Kg wet	0.0200		99.2		70-130				
cis-1,3-Dichloropropene	0.0187	0.0010	mg/Kg wet	0.0200		93.7		70-130				
trans-1,3-Dichloropropene	0.0192	0.0010	mg/Kg wet	0.0200		96.0		70-130				
1,4-Dioxane	0.196	0.10	mg/Kg wet	0.200		98.1		40-160				†
Ethylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		115		70-130				
2-Hexanone (MBK)	0.232	0.020	mg/Kg wet	0.200		116		70-160				†
Isopropylbenzene (Cumene)	0.0238	0.0020	mg/Kg wet	0.0200		119		70-130				
Methyl Acetate	0.0163	0.0020	mg/Kg wet	0.0200		81.3		70-130				
Methyl tert-Butyl Ether (MTBE)	0.0195	0.0040	mg/Kg wet	0.0200		97.4		70-130				
Methylene Chloride	0.0146	0.020	mg/Kg wet	0.0200		72.8		40-160			J	†
4-Methyl-2-pentanone (MIBK)	0.174	0.020	mg/Kg wet	0.200		86.9		70-160				†
Styrene	0.0233	0.0020	mg/Kg wet	0.0200		116		70-130				
1,1,2,2-Tetrachloroethane	0.0215	0.0010	mg/Kg wet	0.0200		107		70-130				
Tetrachloroethylene	0.0247	0.0020	mg/Kg wet	0.0200		123		70-130				
Toluene	0.0190	0.0020	mg/Kg wet	0.0200		94.9		70-130				
1,2,3-Trichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130				
1,2,4-Trichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130				
1,1,1-Trichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130				
1,1,2-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130				
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130				
Trichlorofluoromethane (Freon 11)	0.0170	0.010	mg/Kg wet	0.0200		85.0		70-130				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0177	0.010	mg/Kg wet	0.0200		88.6		70-130				
Vinyl Chloride	0.0152	0.010	mg/Kg wet	0.0200		75.8		40-130				†
m+p Xylene	0.0451	0.0040	mg/Kg wet	0.0400		113		70-130				
o-Xylene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0456*		mg/Kg wet	0.0500		91.2		70-130				
Surrogate: Toluene-d8	*0.0485*		mg/Kg wet	0.0500		97.1		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0533*		mg/Kg wet	0.0500		107		70-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B143969 - SW-846 5035													
LCS Dup (B143969-BSD1)				Prepared & Analyzed: 03/10/16									
Acetone	0.188	0.10	mg/Kg wet	0.200		93.9		70-160	**50.2**	*	25	R-05	†
Benzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7		70-130	1.49		25		
Bromobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	0.363		25		
Bromochloromethane	0.0192	0.0020	mg/Kg wet	0.0200		95.8		70-130	2.32		25		
Bromodichloromethane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	1.07		25		
Bromoform	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	2.24		25		
Bromomethane	0.0111	0.010	mg/Kg wet	0.0200		55.6		40-130	11.6		25		†
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.3		70-160	**32.4**	*	25	R-05	†
Carbon Disulfide	0.0161	0.0060	mg/Kg wet	0.0200		80.6		70-130	0.988		25		
Carbon Tetrachloride	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	0.930		25		
Chlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	0.697		25		
Chlorodibromomethane	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	0.462		25		
Chloroethane	0.0183	0.020	mg/Kg wet	0.0200		91.6		70-130	6.66		25	J	
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		97.0		70-130	0.309		25		
Chloromethane	0.0127	0.010	mg/Kg wet	0.0200		**63.4**	*	70-130	4.02		25	L-04	
Cyclohexane	0.0170	0.0020	mg/Kg wet	0.0200		84.8		70-130	2.99		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0176	0.0020	mg/Kg wet	0.0200		88.2		70-130	0.113		25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	0.277		25		
1,2-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130	2.45		25		
1,3-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	1.60		25		
1,4-Dichlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130	1.35		25		
Dichlorodifluoromethane (Freon 12)	0.0132	0.020	mg/Kg wet	0.0200		66.1		40-160	4.00		25	J	†
1,1-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130	2.09		25		
1,2-Dichloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130	4.25		25		
1,1-Dichloroethylene	0.0169	0.0040	mg/Kg wet	0.0200		84.6		70-130	3.61		25		
cis-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		92.1		70-130	2.98		25		
trans-1,2-Dichloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.0		70-130	1.66		25		
1,2-Dichloropropane	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130	1.52		25		
cis-1,3-Dichloropropene	0.0188	0.0010	mg/Kg wet	0.0200		94.1		70-130	0.426		25		
trans-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.0200		97.4		70-130	1.45		25		
1,4-Dioxane	0.189	0.10	mg/Kg wet	0.200		94.4		40-160	3.91		50		† ‡
Ethylbenzene	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130	0.0873		25		
2-Hexanone (MBK)	0.185	0.020	mg/Kg wet	0.200		92.6		70-160	22.5		25		†
Isopropylbenzene (Cumene)	0.0240	0.0020	mg/Kg wet	0.0200		120		70-130	0.753		25		
Methyl Acetate	0.0162	0.0020	mg/Kg wet	0.0200		80.9		70-130	0.493		25		
Methyl tert-Butyl Ether (MTBE)	0.0194	0.0040	mg/Kg wet	0.0200		97.0		70-130	0.412		25		
Methylene Chloride	0.0159	0.020	mg/Kg wet	0.0200		79.3		40-160	8.55		25	J	†
4-Methyl-2-pentanone (MIBK)	0.173	0.020	mg/Kg wet	0.200		86.5		70-160	0.438		25		†
Styrene	0.0236	0.0020	mg/Kg wet	0.0200		118		70-130	1.36		25		
1,1,2,2-Tetrachloroethane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130	1.39		25		
Tetrachloroethylene	0.0247	0.0020	mg/Kg wet	0.0200		124		70-130	0.243		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130	1.67		25		
1,2,3-Trichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130	0.276		25		
1,2,4-Trichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	0.471		25		
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	1.18		25		
1,1,2-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	0.375		25		
Trichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	0.190		25		
Trichlorofluoromethane (Freon 11)	0.0176	0.010	mg/Kg wet	0.0200		88.0		70-130	3.47		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0184	0.010	mg/Kg wet	0.0200		92.1		70-130	3.87		25		
Vinyl Chloride	0.0151	0.010	mg/Kg wet	0.0200		75.7		40-130	0.132		25		†
m+p Xylene	0.0450	0.0040	mg/Kg wet	0.0400		112		70-130	0.400		25		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143969 - SW-846 5035										
LCS Dup (B143969-BSD1)				Prepared & Analyzed: 03/10/16						
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130	0.906	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0456*		mg/Kg wet	0.0500		91.3	70-130			
Surrogate: Toluene-d8	*0.0478*		mg/Kg wet	0.0500		95.6	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0532*		mg/Kg wet	0.0500		106	70-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143856 - SW-846 5030B										
Blank (B143856-BLK1)				Prepared & Analyzed: 03/09/16						
No TICs Found	0.0		µg/L							
Batch B143867 - SW-846 5035										
Blank (B143867-BLK1)				Prepared & Analyzed: 03/09/16						
No TICs Found	0.0		mg/Kg wet							
Batch B143969 - SW-846 5035										
Blank (B143969-BLK1)				Prepared & Analyzed: 03/10/16						
No TICs Found	0.0		mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS (SIM) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B144066 - SW-846 5035										
Blank (B144066-BLK1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	ND	0.0020	mg/Kg wet							
Surrogate: 1,4-Dioxane-d8	*0.0120*		mg/Kg wet	0.0100		120	40-160			
LCS (B144066-BS1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	0.00634	0.0020	mg/Kg wet	0.00500		127	60-140			
Surrogate: 1,4-Dioxane-d8	*0.0127*		mg/Kg wet	0.0100		127	40-160			
LCS Dup (B144066-BSD1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	0.00624	0.0020	mg/Kg wet	0.00500		125	60-140	1.59	20	
Surrogate: 1,4-Dioxane-d8	*0.0118*		mg/Kg wet	0.0100		118	40-160			
Batch B144068 - SW-846 5035										
Blank (B144068-BLK1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	ND	2.0	µg/L							
Surrogate: 1,4-Dioxane-d8	*12.0*		µg/L	10.0		120	40-160			
LCS (B144068-BS1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	6.34	2.0	µg/L	5.00		127	60-140			
Surrogate: 1,4-Dioxane-d8	*12.7*		µg/L	10.0		127	40-160			
LCS Dup (B144068-BSD1)				Prepared & Analyzed: 03/11/16						
1,4-Dioxane	6.24	2.0	µg/L	5.00		125	60-140	1.59	20	
Surrogate: 1,4-Dioxane-d8	*11.8*		µg/L	10.0		118	40-160			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143797 - SW-846 3546										
Blank (B143797-BLK1)				Prepared: 03/08/16 Analyzed: 03/12/16						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							V-20
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143797 - SW-846 3546										
Blank (B143797-BLK1)				Prepared: 03/08/16 Analyzed: 03/10/16						
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-20
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet							
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Phenol	ND	0.34	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet							
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet							
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet							
Atrazine	ND	0.67	mg/Kg wet							
Surrogate: 2-Fluorophenol	*7.41*		mg/Kg wet	6.67		111	30-130			
Surrogate: Phenol-d6	*7.57*		mg/Kg wet	6.67		114	30-130			
Surrogate: Nitrobenzene-d5	*3.85*		mg/Kg wet	3.33		116	30-130			
Surrogate: 2-Fluorobiphenyl	*3.62*		mg/Kg wet	3.33		109	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.32*		mg/Kg wet	6.67		110	30-130			
Surrogate: p-Terphenyl-d14	*4.17*		mg/Kg wet	3.33		125	30-130			
LCS (B143797-BS1)				Prepared: 03/08/16 Analyzed: 03/12/16						
2,3,4,6-Tetrachlorophenol	1.59	0.67	mg/Kg wet	1.67		95.3	40-140			
Benzaldehyde	1.32	0.34	mg/Kg wet	1.67		79.0	40-140			V-20
Biphenyl	1.48	0.67	mg/Kg wet	1.67		89.0	40-140			
Caprolactam	1.48	0.34	mg/Kg wet	1.67		89.0	40-140			
Acenaphthene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140			
Acenaphthylene	1.55	0.17	mg/Kg wet	1.67		93.1	40-140			
Acetophenone	1.47	0.34	mg/Kg wet	1.67		88.5	40-140			
Anthracene	1.54	0.17	mg/Kg wet	1.67		92.3	40-140			
Benzo(a)anthracene	1.62	0.17	mg/Kg wet	1.67		97.0	40-140			
Benzo(a)pyrene	1.63	0.17	mg/Kg wet	1.67		98.0	40-140			
Benzo(b)fluoranthene	1.62	0.17	mg/Kg wet	1.67		97.4	40-140			
Benzo(g,h,i)perylene	1.57	0.17	mg/Kg wet	1.67		94.0	40-140			
Benzo(k)fluoranthene	1.61	0.17	mg/Kg wet	1.67		96.7	40-140			
Bis(2-chloroethoxy)methane	1.59	0.34	mg/Kg wet	1.67		95.4	40-140			
Bis(2-chloroethyl)ether	1.48	0.34	mg/Kg wet	1.67		88.6	40-140			
Bis(2-Ethylhexyl)phthalate	1.74	0.34	mg/Kg wet	1.67		104	40-140			
4-Bromophenylphenylether	1.54	0.34	mg/Kg wet	1.67		92.1	40-140			
Butylbenzylphthalate	1.79	0.34	mg/Kg wet	1.67		107	40-140			
Carbazole	1.58	0.17	mg/Kg wet	1.67		94.7	40-140			
4-Chloroaniline	0.912	0.66	mg/Kg wet	1.67		54.7	10-140			†
4-Chloro-3-methylphenol	1.65	0.66	mg/Kg wet	1.67		99.1	30-130			
2-Chloronaphthalene	1.26	0.34	mg/Kg wet	1.67		75.5	40-140			
2-Chlorophenol	1.43	0.34	mg/Kg wet	1.67		86.1	30-130			
4-Chlorophenylphenylether	1.61	0.34	mg/Kg wet	1.67		96.5	40-140			
Chrysene	1.59	0.17	mg/Kg wet	1.67		95.5	40-140			
Dibenz(a,h)anthracene	1.50	0.17	mg/Kg wet	1.67		89.8	40-140			
Dibenzofuran	1.60	0.34	mg/Kg wet	1.67		96.3	40-140			
Di-n-butylphthalate	1.62	0.34	mg/Kg wet	1.67		97.3	40-140			
3,3-Dichlorobenzidine	0.815	0.17	mg/Kg wet	1.67		48.9	20-140			†
2,4-Dichlorophenol	1.52	0.34	mg/Kg wet	1.67		91.5	30-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143797 - SW-846 3546												
LCS (B143797-BS1)				Prepared: 03/08/16 Analyzed: 03/10/16								
Diethylphthalate	1.66	0.34	mg/Kg wet	1.67		99.5		40-140				
2,4-Dimethylphenol	1.50	0.34	mg/Kg wet	1.67		90.0		30-130				
Dimethylphthalate	1.66	0.34	mg/Kg wet	1.67		99.5		40-140				
4,6-Dinitro-2-methylphenol	0.986	0.34	mg/Kg wet	1.67		59.1		30-130				
2,4-Dinitrophenol	0.544	0.66	mg/Kg wet	1.67		32.7		30-130			J	
2,4-Dinitrotoluene	1.58	0.34	mg/Kg wet	1.67		95.1		40-140				
2,6-Dinitrotoluene	1.59	0.34	mg/Kg wet	1.67		95.4		40-140				
Di-n-octylphthalate	1.70	0.34	mg/Kg wet	1.67		102		40-140				
Fluoranthene	1.57	0.17	mg/Kg wet	1.67		94.3		40-140				
Fluorene	1.64	0.17	mg/Kg wet	1.67		98.5		40-140				
Hexachlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.4		40-140				
Hexachlorobutadiene	1.30	0.34	mg/Kg wet	1.67		78.3		40-140				
Hexachlorocyclopentadiene	0.931	0.34	mg/Kg wet	1.67		55.8		40-140			V-05	
Hexachloroethane	1.28	0.34	mg/Kg wet	1.67		76.7		40-140				
Indeno(1,2,3-cd)pyrene	1.55	0.17	mg/Kg wet	1.67		92.8		40-140				
Isophorone	1.63	0.34	mg/Kg wet	1.67		97.8		40-140				
2-Methylnaphthalene	1.47	0.17	mg/Kg wet	1.67		88.0		40-140				
2-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.1		30-130				
3/4-Methylphenol	1.53	0.34	mg/Kg wet	1.67		91.8		30-130				
Naphthalene	1.40	0.17	mg/Kg wet	1.67		84.2		40-140				
2-Nitroaniline	1.78	0.34	mg/Kg wet	1.67		107		40-140				
3-Nitroaniline	1.39	0.34	mg/Kg wet	1.67		83.3		30-140				†
4-Nitroaniline	1.39	0.34	mg/Kg wet	1.67		83.4		40-140				
Nitrobenzene	1.52	0.34	mg/Kg wet	1.67		91.1		40-140				
2-Nitrophenol	1.48	0.34	mg/Kg wet	1.67		88.7		30-130				
4-Nitrophenol	2.20	0.66	mg/Kg wet	1.67		**132**	*	30-130			L-07, V-20	
N-Nitrosodiphenylamine	1.86	0.34	mg/Kg wet	1.67		112		40-140				
N-Nitrosodi-n-propylamine	1.58	0.34	mg/Kg wet	1.67		94.9		40-140				
Pentachlorophenol	1.08	0.34	mg/Kg wet	1.67		64.5		30-130				
Phenanthrene	1.56	0.17	mg/Kg wet	1.67		93.3		40-140				
Phenol	1.64	0.34	mg/Kg wet	1.67		98.5		30-130				
Pyrene	1.71	0.17	mg/Kg wet	1.67		103		40-140				
1,2,4,5-Tetrachlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.2		40-140				
2,4,5-Trichlorophenol	1.48	0.34	mg/Kg wet	1.67		89.0		30-130				
2,4,6-Trichlorophenol	1.55	0.34	mg/Kg wet	1.67		92.9		30-130				
Atrazine	1.38	0.67	mg/Kg wet	1.67		82.6		40-140				
Surrogate: 2-Fluorophenol	*6.36*		mg/Kg wet	6.67		95.4		30-130				
Surrogate: Phenol-d6	*6.69*		mg/Kg wet	6.67		100		30-130				
Surrogate: Nitrobenzene-d5	*3.58*		mg/Kg wet	3.33		107		30-130				
Surrogate: 2-Fluorobiphenyl	*3.54*		mg/Kg wet	3.33		106		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.25*		mg/Kg wet	6.67		109		30-130				
Surrogate: p-Terphenyl-d14	*4.13*		mg/Kg wet	3.33		124		30-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B143797 - SW-846 3546											
LCS Dup (B143797-BSD1)				Prepared: 03/08/16 Analyzed: 03/12/16							
2,3,4,6-Tetrachlorophenol	1.41	0.67	mg/Kg wet	1.67		84.7	40-140	11.7	20		
Benzaldehyde	1.19	0.34	mg/Kg wet	1.67		71.6	40-140	9.82	20	V-20	
Biphenyl	1.36	0.67	mg/Kg wet	1.67		81.5	40-140	8.82	20		
Caprolactam	1.36	0.34	mg/Kg wet	1.67		81.7	40-140	8.60	20		
Acenaphthene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140	7.75	30		
Acenaphthylene	1.45	0.17	mg/Kg wet	1.67		87.2	40-140	6.63	30		
Acetophenone	1.33	0.34	mg/Kg wet	1.67		79.9	40-140	10.1	30		
Anthracene	1.41	0.17	mg/Kg wet	1.67		84.6	40-140	8.62	30		
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.5	40-140	9.21	30		
Benzo(a)pyrene	1.48	0.17	mg/Kg wet	1.67		88.8	40-140	9.87	30		
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140	11.7	30		
Benzo(g,h,i)perylene	1.45	0.17	mg/Kg wet	1.67		87.1	40-140	7.62	30		
Benzo(k)fluoranthene	1.46	0.17	mg/Kg wet	1.67		87.7	40-140	9.74	30		
Bis(2-chloroethoxy)methane	1.48	0.34	mg/Kg wet	1.67		88.7	40-140	7.32	30		
Bis(2-chloroethyl)ether	1.37	0.34	mg/Kg wet	1.67		82.3	40-140	7.44	30		
Bis(2-Ethylhexyl)phthalate	1.45	0.34	mg/Kg wet	1.67		86.8	40-140	18.2	30		
4-Bromophenylphenylether	1.37	0.34	mg/Kg wet	1.67		82.0	40-140	11.6	30		
Butylbenzylphthalate	1.55	0.34	mg/Kg wet	1.67		93.0	40-140	14.1	30		
Carbazole	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	5.53	30		
4-Chloroaniline	0.846	0.66	mg/Kg wet	1.67		50.7	10-140	7.55	30		†
4-Chloro-3-methylphenol	1.53	0.66	mg/Kg wet	1.67		91.5	30-130	7.89	30		
2-Chloronaphthalene	1.23	0.34	mg/Kg wet	1.67		73.8	40-140	2.28	30		
2-Chlorophenol	1.34	0.34	mg/Kg wet	1.67		80.3	30-130	6.97	30		
4-Chlorophenylphenylether	1.45	0.34	mg/Kg wet	1.67		86.9	40-140	10.5	30		
Chrysene	1.45	0.17	mg/Kg wet	1.67		87.0	40-140	9.33	30		
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.4	40-140	7.41	30		
Dibenzofuran	1.46	0.34	mg/Kg wet	1.67		87.6	40-140	9.47	30		
Di-n-butylphthalate	1.43	0.34	mg/Kg wet	1.67		85.7	40-140	12.7	30		
3,3-Dichlorobenzidine	0.721	0.17	mg/Kg wet	1.67		43.2	20-140	12.3	50		† ‡
2,4-Dichlorophenol	1.40	0.34	mg/Kg wet	1.67		84.2	30-130	8.27	30		
Diethylphthalate	1.49	0.34	mg/Kg wet	1.67		89.6	40-140	10.5	30		
2,4-Dimethylphenol	1.40	0.34	mg/Kg wet	1.67		84.0	30-130	6.88	30		
Dimethylphthalate	1.49	0.34	mg/Kg wet	1.67		89.6	40-140	10.5	30		
4,6-Dinitro-2-methylphenol	0.914	0.34	mg/Kg wet	1.67		54.9	30-130	7.51	30		
2,4-Dinitrophenol	0.540	0.66	mg/Kg wet	1.67		32.4	30-130	0.799	30	J	
2,4-Dinitrotoluene	1.42	0.34	mg/Kg wet	1.67		85.3	40-140	10.8	30		
2,6-Dinitrotoluene	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	9.97	30		
Di-n-octylphthalate	1.42	0.34	mg/Kg wet	1.67		84.9	40-140	18.4	30		
Fluoranthene	1.47	0.17	mg/Kg wet	1.67		88.3	40-140	6.55	30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	9.06	30		
Hexachlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9	40-140	11.2	30		
Hexachlorobutadiene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140	7.83	30		
Hexachlorocyclopentadiene	0.858	0.34	mg/Kg wet	1.67		51.5	40-140	8.13	30	V-05	
Hexachloroethane	1.18	0.34	mg/Kg wet	1.67		70.7	40-140	8.06	30		
Indeno(1,2,3-cd)pyrene	1.41	0.17	mg/Kg wet	1.67		84.4	40-140	9.46	30		
Isophorone	1.49	0.34	mg/Kg wet	1.67		89.6	40-140	8.77	30		
2-Methylnaphthalene	1.38	0.17	mg/Kg wet	1.67		82.9	40-140	5.99	30		
2-Methylphenol	1.11	0.34	mg/Kg wet	1.67		66.5	30-130	5.30	30		
3/4-Methylphenol	1.41	0.34	mg/Kg wet	1.67		84.7	30-130	8.09	30		
Naphthalene	1.32	0.17	mg/Kg wet	1.67		79.4	40-140	5.94	30		
2-Nitroaniline	1.72	0.34	mg/Kg wet	1.67		103	40-140	3.88	30		
3-Nitroaniline	1.27	0.34	mg/Kg wet	1.67		76.3	30-140	8.77	30		†

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B143797 - SW-846 3546											
LCS Dup (B143797-BSD1)				Prepared: 03/08/16 Analyzed: 03/10/16							
4-Nitroaniline	1.35	0.34	mg/Kg wet	1.67		81.2	40-140	2.65	30		
Nitrobenzene	1.44	0.34	mg/Kg wet	1.67		86.3	40-140	5.32	30		
2-Nitrophenol	1.41	0.34	mg/Kg wet	1.67		84.3	30-130	5.08	30		
4-Nitrophenol	2.03	0.66	mg/Kg wet	1.67		122	30-130	8.06	50	V-20	‡
N-Nitrosodiphenylamine	1.73	0.34	mg/Kg wet	1.67		104	40-140	7.32	30		
N-Nitrosodi-n-propylamine	1.42	0.34	mg/Kg wet	1.67		84.9	40-140	11.1	30		
Pentachlorophenol	0.983	0.34	mg/Kg wet	1.67		59.0	30-130	8.91	30		
Phenanthrene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140	9.33	30		
Phenol	1.52	0.34	mg/Kg wet	1.67		91.5	30-130	7.39	30		
Pyrene	1.49	0.17	mg/Kg wet	1.67		89.3	40-140	13.8	30		
1,2,4,5-Tetrachlorobenzene	1.38	0.34	mg/Kg wet	1.67		82.6	40-140	4.22	30		
2,4,5-Trichlorophenol	1.34	0.34	mg/Kg wet	1.67		80.4	30-130	10.1	30		
2,4,6-Trichlorophenol	1.45	0.34	mg/Kg wet	1.67		86.7	30-130	6.90	30		
Atrazine	1.25	0.67	mg/Kg wet	1.67		75.2	40-140	9.30	30		
Surrogate: 2-Fluorophenol	*5.87*		mg/Kg wet	6.67		88.0	30-130				
Surrogate: Phenol-d6	*6.14*		mg/Kg wet	6.67		92.1	30-130				
Surrogate: Nitrobenzene-d5	*3.37*		mg/Kg wet	3.33		101	30-130				
Surrogate: 2-Fluorobiphenyl	*3.28*		mg/Kg wet	3.33		98.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.33*		mg/Kg wet	6.67		95.0	30-130				
Surrogate: p-Terphenyl-d14	*3.47*		mg/Kg wet	3.33		104	30-130				
Batch B143804 - SW-846 3510C											
Blank (B143804-BLK1)				Prepared: 03/09/16 Analyzed: 03/12/16							
2,3,4,6-Tetrachlorophenol	ND	20	µg/L								
Atrazine	ND	20	µg/L								
Benzaldehyde	ND	10	µg/L							V-20	
Biphenyl	ND	20	µg/L								
Caprolactam	ND	10	µg/L							L-04	
Acenaphthene	ND	5.0	µg/L								
Acenaphthylene	ND	5.0	µg/L								
Acetophenone	ND	10	µg/L								
Anthracene	ND	5.0	µg/L								
Benzo(a)anthracene	ND	5.0	µg/L								
Benzo(a)pyrene	ND	5.0	µg/L								
Benzo(b)fluoranthene	ND	5.0	µg/L								
Benzo(g,h,i)perylene	ND	5.0	µg/L								
Benzo(k)fluoranthene	ND	5.0	µg/L								
Bis(2-chloroethoxy)methane	ND	10	µg/L								
Bis(2-chloroethyl)ether	ND	10	µg/L								
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L								
4-Bromophenylphenylether	ND	10	µg/L								
Butylbenzylphthalate	ND	10	µg/L								
Carbazole	ND	10	µg/L								
4-Chloroaniline	ND	10	µg/L								
4-Chloro-3-methylphenol	ND	10	µg/L								
2-Chloronaphthalene	ND	10	µg/L								
2-Chlorophenol	ND	10	µg/L								
4-Chlorophenylphenylether	ND	10	µg/L								
Chrysene	ND	5.0	µg/L								
Dibenz(a,h)anthracene	ND	5.0	µg/L								
Dibenzofuran	ND	5.0	µg/L								
Di-n-butylphthalate	ND	10	µg/L								

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143804 - SW-846 3510C										
Blank (B143804-BLK1)				Prepared & Analyzed: 03/09/16						
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							V-20
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
Pentachlorophenol	ND	10	µg/L							
Phenanthrene	ND	5.0	µg/L							
Phenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L							
2,4,5-Trichlorophenol	ND	10	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*75.7*		µg/L	200		37.8	15-110			
Surrogate: Phenol-d6	*47.7*		µg/L	200		23.8	15-110			
Surrogate: Nitrobenzene-d5	*82.0*		µg/L	100		82.0	30-130			
Surrogate: 2-Fluorobiphenyl	*77.8*		µg/L	100		77.8	30-130			
Surrogate: 2,4,6-Tribromophenol	*148*		µg/L	200		74.2	15-110			
Surrogate: p-Terphenyl-d14	*83.6*		µg/L	100		83.6	30-130			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143804 - SW-846 3510C												
LCS (B143804-BS1)				Prepared: 03/09/16 Analyzed: 03/12/16								
2,3,4,6-Tetrachlorophenol	83.2	20	µg/L	100		83.2		40-140				
Atrazine	92.2	20	µg/L	100		92.2		40-140				
Benzaldehyde	73.8	10	µg/L	100		73.8		40-140			V-20	
Biphenyl	86.6	20	µg/L	100		86.6		40-140				
Caprolactam	19.4	10	µg/L	100		**19.4**	*	40-140			L-04	
Acenaphthene	81.9	5.0	µg/L	100		81.9		40-140				
Acenaphthylene	87.8	5.0	µg/L	100		87.8		40-140				
Acetophenone	85.4	10	µg/L	100		85.4		40-140				
Anthracene	82.8	5.0	µg/L	100		82.8		40-140				
Benzo(a)anthracene	85.6	5.0	µg/L	100		85.6		40-140				
Benzo(a)pyrene	89.8	5.0	µg/L	100		89.8		40-140				
Benzo(b)fluoranthene	86.7	5.0	µg/L	100		86.7		40-140				
Benzo(g,h,i)perylene	83.1	5.0	µg/L	100		83.1		40-140				
Benzo(k)fluoranthene	87.5	5.0	µg/L	100		87.5		40-140				
Bis(2-chloroethoxy)methane	91.4	10	µg/L	100		91.4		40-140				
Bis(2-chloroethyl)ether	89.6	10	µg/L	100		89.6		40-140				
Bis(2-Ethylhexyl)phthalate	88.0	10	µg/L	100		88.0		40-140				
4-Bromophenylphenylether	83.0	10	µg/L	100		83.0		40-140				
Butylbenzylphthalate	89.6	10	µg/L	100		89.6		40-140				
Carbazole	89.0	10	µg/L	100		89.0		40-140				
4-Chloroaniline	69.8	10	µg/L	100		69.8		40-140				
4-Chloro-3-methylphenol	86.5	10	µg/L	100		86.5		30-130				
2-Chloronaphthalene	73.7	10	µg/L	100		73.7		40-140				
2-Chlorophenol	76.4	10	µg/L	100		76.4		30-130				
4-Chlorophenylphenylether	93.8	10	µg/L	100		93.8		40-140				
Chrysene	84.6	5.0	µg/L	100		84.6		40-140				
Dibenz(a,h)anthracene	82.5	5.0	µg/L	100		82.5		40-140				
Dibenzofuran	89.9	5.0	µg/L	100		89.9		40-140				
Di-n-butylphthalate	88.1	10	µg/L	100		88.1		40-140				
3,3-Dichlorobenzidine	63.1	10	µg/L	100		63.1		40-140				
2,4-Dichlorophenol	84.2	10	µg/L	100		84.2		30-130				
Diethylphthalate	93.0	10	µg/L	100		93.0		40-140				
2,4-Dimethylphenol	79.4	10	µg/L	100		79.4		30-130				
Dimethylphthalate	91.0	10	µg/L	100		91.0		40-140				
4,6-Dinitro-2-methylphenol	82.6	10	µg/L	100		82.6		30-130				
2,4-Dinitrophenol	85.6	10	µg/L	100		85.6		30-130				
2,4-Dinitrotoluene	91.6	10	µg/L	100		91.6		40-140				
2,6-Dinitrotoluene	86.5	10	µg/L	100		86.5		40-140				
Di-n-octylphthalate	90.5	10	µg/L	100		90.5		40-140				
Fluoranthene	90.7	5.0	µg/L	100		90.7		40-140				
Fluorene	93.6	5.0	µg/L	100		93.6		40-140				
Hexachlorobenzene	72.9	10	µg/L	100		72.9		40-140				
Hexachlorobutadiene	77.8	10	µg/L	100		77.8		40-140				
Hexachlorocyclopentadiene	52.5	10	µg/L	100		52.5		30-140			V-05	†
Hexachloroethane	77.7	10	µg/L	100		77.7		40-140				
Indeno(1,2,3-cd)pyrene	82.3	5.0	µg/L	100		82.3		40-140				
Isophorone	92.4	10	µg/L	100		92.4		40-140				
2-Methylnaphthalene	85.2	5.0	µg/L	100		85.2		40-140				
2-Methylphenol	53.6	10	µg/L	100		53.6		30-130				
3/4-Methylphenol	61.2	10	µg/L	100		61.2		30-130				
Naphthalene	81.2	5.0	µg/L	100		81.2		40-140				
2-Nitroaniline	95.0	10	µg/L	100		95.0		40-140				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B143804 - SW-846 3510C												
LCS (B143804-BS1)				Prepared & Analyzed: 03/09/16								
3-Nitroaniline	83.3	10	µg/L	100		83.3		40-140				
4-Nitroaniline	84.8	10	µg/L	100		84.8		40-140				
Nitrobenzene	83.8	10	µg/L	100		83.8		40-140				
2-Nitrophenol	83.5	10	µg/L	100		83.5		30-130				
4-Nitrophenol	49.8	10	µg/L	100		49.8		10-130			V-20	†
N-Nitrosodiphenylamine	99.8	10	µg/L	100		99.8		40-140				
N-Nitrosodi-n-propylamine	91.1	10	µg/L	100		91.1		40-140				
Pentachlorophenol	65.9	10	µg/L	100		65.9		30-130				
Phenanthrene	84.2	5.0	µg/L	100		84.2		40-140				
Phenol	37.3	10	µg/L	100		37.3		20-130				†
Pyrene	82.6	5.0	µg/L	100		82.6		40-140				
1,2,4,5-Tetrachlorobenzene	85.7	10	µg/L	100		85.7		40-140				
2,4,5-Trichlorophenol	81.2	10	µg/L	100		81.2		30-130				
2,4,6-Trichlorophenol	87.5	10	µg/L	100		87.5		30-130				
Surrogate: 2-Fluorophenol	*92.4*		µg/L	200		46.2		15-110				
Surrogate: Phenol-d6	*62.1*		µg/L	200		31.0		15-110				
Surrogate: Nitrobenzene-d5	*92.2*		µg/L	100		92.2		30-130				
Surrogate: 2-Fluorobiphenyl	*90.5*		µg/L	100		90.5		30-130				
Surrogate: 2,4,6-Tribromophenol	*184*		µg/L	200		92.0		15-110				
Surrogate: p-Terphenyl-d14	*89.4*		µg/L	100		89.4		30-130				
LCS Dup (B143804-BSD1)				Prepared: 03/09/16 Analyzed: 03/12/16								
2,3,4,6-Tetrachlorophenol	87.5	20	µg/L	100		87.5		40-140	5.10	20		
Atrazine	95.4	20	µg/L	100		95.4		40-140	3.43	20		
Benzaldehyde	75.7	10	µg/L	100		75.7		40-140	2.54	20	V-20	
Biphenyl	92.4	20	µg/L	100		92.4		40-140	6.46	20		
Caprolactam	20.2	10	µg/L	100		**20.2**	*	40-140	3.94	20	L-04	
Acenaphthene	76.3	5.0	µg/L	100		76.3		40-140	7.09	20		
Acenaphthylene	79.7	5.0	µg/L	100		79.7		40-140	9.64	20		
Acetophenone	75.8	10	µg/L	100		75.8		40-140	11.9	20		
Anthracene	76.5	5.0	µg/L	100		76.5		40-140	7.87	20		
Benzo(a)anthracene	77.7	5.0	µg/L	100		77.7		40-140	9.69	20		
Benzo(a)pyrene	83.1	5.0	µg/L	100		83.1		40-140	7.75	20		
Benzo(b)fluoranthene	80.0	5.0	µg/L	100		80.0		40-140	7.94	20		
Benzo(g,h,i)perylene	77.8	5.0	µg/L	100		77.8		40-140	6.62	20		
Benzo(k)fluoranthene	80.6	5.0	µg/L	100		80.6		40-140	8.15	20		
Bis(2-chloroethoxy)methane	84.1	10	µg/L	100		84.1		40-140	8.26	20		
Bis(2-chloroethyl)ether	79.0	10	µg/L	100		79.0		40-140	12.6	20		
Bis(2-Ethylhexyl)phthalate	80.0	10	µg/L	100		80.0		40-140	9.47	20		
4-Bromophenylphenylether	75.7	10	µg/L	100		75.7		40-140	9.20	20		
Butylbenzylphthalate	81.1	10	µg/L	100		81.1		40-140	9.95	20		
Carbazole	79.8	10	µg/L	100		79.8		40-140	10.9	20		
4-Chloroaniline	62.6	10	µg/L	100		62.6		40-140	10.8	20		
4-Chloro-3-methylphenol	80.3	10	µg/L	100		80.3		30-130	7.35	20		
2-Chloronaphthalene	65.8	10	µg/L	100		65.8		40-140	11.4	20		
2-Chlorophenol	67.9	10	µg/L	100		67.9		30-130	11.7	20		
4-Chlorophenylphenylether	85.4	10	µg/L	100		85.4		40-140	9.43	20		
Chrysene	76.9	5.0	µg/L	100		76.9		40-140	9.45	20		
Dibenz(a,h)anthracene	77.2	5.0	µg/L	100		77.2		40-140	6.57	20		
Dibenzofuran	83.1	5.0	µg/L	100		83.1		40-140	7.82	20		
Di-n-butylphthalate	79.3	10	µg/L	100		79.3		40-140	10.5	20		
3,3-Dichlorobenzidine	57.0	10	µg/L	100		57.0		40-140	10.1	20		

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B143804 - SW-846 3510C											
LCS Dup (B143804-BSD1)				Prepared & Analyzed: 03/09/16							
2,4-Dichlorophenol	76.6	10	µg/L	100		76.6	30-130	9.47	20		
Diethylphthalate	85.7	10	µg/L	100		85.7	40-140	8.18	20		
2,4-Dimethylphenol	74.4	10	µg/L	100		74.4	30-130	6.59	20		
Dimethylphthalate	83.2	10	µg/L	100		83.2	40-140	8.91	50		‡
4,6-Dinitro-2-methylphenol	74.0	10	µg/L	100		74.0	30-130	11.1	50		‡
2,4-Dinitrophenol	77.9	10	µg/L	100		77.9	30-130	9.34	50		‡
2,4-Dinitrotoluene	82.7	10	µg/L	100		82.7	40-140	10.2	20		
2,6-Dinitrotoluene	81.3	10	µg/L	100		81.3	40-140	6.21	20		
Di-n-octylphthalate	83.4	10	µg/L	100		83.4	40-140	8.12	20		
Fluoranthene	81.6	5.0	µg/L	100		81.6	40-140	10.5	20		
Fluorene	85.4	5.0	µg/L	100		85.4	40-140	9.15	20		
Hexachlorobenzene	66.2	10	µg/L	100		66.2	40-140	9.55	20		
Hexachlorobutadiene	72.0	10	µg/L	100		72.0	40-140	7.74	20		
Hexachlorocyclopentadiene	50.6	10	µg/L	100		50.6	30-140	3.51	50	V-05	† ‡
Hexachloroethane	66.9	10	µg/L	100		66.9	40-140	15.0	50		‡
Indeno(1,2,3-cd)pyrene	78.5	5.0	µg/L	100		78.5	40-140	4.68	50		‡
Isophorone	85.9	10	µg/L	100		85.9	40-140	7.27	20		
2-Methylnaphthalene	76.6	5.0	µg/L	100		76.6	40-140	10.6	20		
2-Methylphenol	48.1	10	µg/L	100		48.1	30-130	10.8	20		
3/4-Methylphenol	55.5	10	µg/L	100		55.5	30-130	9.68	20		
Naphthalene	74.7	5.0	µg/L	100		74.7	40-140	8.44	20		
2-Nitroaniline	88.4	10	µg/L	100		88.4	40-140	7.18	20		
3-Nitroaniline	76.6	10	µg/L	100		76.6	40-140	8.37	20		
4-Nitroaniline	78.5	10	µg/L	100		78.5	40-140	7.64	20		
Nitrobenzene	77.8	10	µg/L	100		77.8	40-140	7.49	20		
2-Nitrophenol	76.7	10	µg/L	100		76.7	30-130	8.53	20		
4-Nitrophenol	45.6	10	µg/L	100		45.6	10-130	8.72	50	V-20	† ‡
N-Nitrosodiphenylamine	90.0	10	µg/L	100		90.0	40-140	10.3	20		
N-Nitrosodi-n-propylamine	80.6	10	µg/L	100		80.6	40-140	12.3	20		
Pentachlorophenol	60.4	10	µg/L	100		60.4	30-130	8.65	50		‡
Phenanthrene	76.2	5.0	µg/L	100		76.2	40-140	9.90	20		
Phenol	32.8	10	µg/L	100		32.8	20-130	12.9	20		†
Pyrene	75.7	5.0	µg/L	100		75.7	40-140	8.64	20		
1,2,4,5-Tetrachlorobenzene	77.3	10	µg/L	100		77.3	40-140	10.3	20		
2,4,5-Trichlorophenol	75.2	10	µg/L	100		75.2	30-130	7.64	20		
2,4,6-Trichlorophenol	80.7	10	µg/L	100		80.7	30-130	8.10	50		‡
Surrogate: 2-Fluorophenol	*82.6*		µg/L	200		41.3	15-110				
Surrogate: Phenol-d6	*54.1*		µg/L	200		27.0	15-110				
Surrogate: Nitrobenzene-d5	*85.2*		µg/L	100		85.2	30-130				
Surrogate: 2-Fluorobiphenyl	*82.7*		µg/L	100		82.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*171*		µg/L	200		85.6	15-110				
Surrogate: p-Terphenyl-d14	*81.4*		µg/L	100		81.4	30-130				

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - SV Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143797 - SW-846 3546										
Blank (B143797-BLK1)				Prepared: 03/08/16 Analyzed: 03/10/16						
No TICs Found	0.0		mg/Kg wet							
Batch B143804 - SW-846 3510C										
Blank (B143804-BLK1)				Prepared & Analyzed: 03/09/16						
No TICs Found	0.0		µg/L							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143826 - SW-846 7471										
Blank (B143826-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	ND	25	µg/kg wet							
LCS (B143826-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	6690	750	µg/kg wet	7100		94.2	73.7-126.3			
LCS Dup (B143826-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	6950	770	µg/kg wet	7100		97.9	73.7-126.3	3.91	30	
Batch B143829 - SW-846 3050B										
Blank (B143829-BLK1)				Prepared & Analyzed: 03/10/16						
Antimony	ND	2.7	mg/Kg wet							
Arsenic	ND	0.25	mg/Kg wet							
Beryllium	ND	0.34	mg/Kg wet							
Chromium	ND	6.2	mg/Kg wet							
Copper	0.082	6.2	mg/Kg wet							J
Iron	ND	12	mg/Kg wet							
Lead	0.10	2.5	mg/Kg wet							J
Manganese	ND	6.5	mg/Kg wet							
Nickel	ND	6.2	mg/Kg wet							
Selenium	ND	1.0	mg/Kg wet							
Silver	ND	0.11	mg/Kg wet							
Thallium	ND	0.080	mg/Kg wet							
Zinc	ND	12	mg/Kg wet							
Cadmium	ND	0.48	mg/Kg wet							
LCS (B143829-BS1)				Prepared & Analyzed: 03/10/16						
Antimony	81.4	22	mg/Kg wet	105		77.5	0-210.3			
Arsenic	101	2.0	mg/Kg wet	98.5		102	77.8-122.1			
Beryllium	69.3	2.7	mg/Kg wet	66.0		105	82.3-117.7			
Chromium	177	50	mg/Kg wet	182		97.1	78.7-120.6			
Copper	104	50	mg/Kg wet	106		97.7	80.4-119.6			
Iron	12400	100	mg/Kg wet	14400		86.4	46.8-153			
Lead	125	20	mg/Kg wet	130		96.1	82.4-117.8			
Manganese	390	52	mg/Kg wet	410		95.1	80.8-119.2			
Nickel	147	50	mg/Kg wet	149		98.8	82.2-117.8			
Selenium	165	8.4	mg/Kg wet	154		107	77.1-122.3			
Silver	41.1	0.88	mg/Kg wet	40.9		101	74.3-125.4			
Thallium	182	0.64	mg/Kg wet	175		104	78.2-121.6			
Zinc	198	100	mg/Kg wet	191		104	79.7-120.8			
Cadmium	157	3.8	mg/Kg wet	146		108	81.9-118.2			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143829 - SW-846 3050B										
LCS Dup (B143829-BSD1)				Prepared & Analyzed: 03/10/16						
Antimony	77.2	22	mg/Kg wet	105		73.5	0-210.3	5.31	30	
Arsenic	102	2.0	mg/Kg wet	98.5		104	77.8-122.1	1.31	30	
Beryllium	69.9	2.7	mg/Kg wet	66.0		106	82.3-117.7	0.926	30	
Chromium	179	50	mg/Kg wet	182		98.6	78.7-120.6	1.52	30	
Copper	105	50	mg/Kg wet	106		98.9	80.4-119.6	1.21	30	
Iron	12600	100	mg/Kg wet	14400		87.2	46.8-153	0.907	30	
Lead	128	20	mg/Kg wet	130		98.6	82.4-117.8	2.60	30	
Manganese	398	52	mg/Kg wet	410		97.0	80.8-119.2	2.04	30	
Nickel	147	50	mg/Kg wet	149		98.9	82.2-117.8	0.158	30	
Selenium	165	8.4	mg/Kg wet	154		107	77.1-122.3	0.157	30	
Silver	41.2	0.88	mg/Kg wet	40.9		101	74.3-125.4	0.204	30	
Thallium	179	0.64	mg/Kg wet	175		102	78.2-121.6	1.34	30	
Zinc	202	100	mg/Kg wet	191		106	79.7-120.8	1.75	30	
Cadmium	152	3.8	mg/Kg wet	146		104	81.9-118.2	3.67	30	
Batch B143868 - SW-846 7470A Prep										
Blank (B143868-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	ND	0.10	µg/L							
LCS (B143868-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	1.87	0.10	µg/L	2.00		93.4	80-120			
LCS Dup (B143868-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Mercury	1.88	0.10	µg/L	2.00		93.8	80-120	0.382	20	
Batch B143883 - SW-846 3005A										
Blank (B143883-BLK1)				Prepared: 03/09/16 Analyzed: 03/14/16						
Antimony	ND	2.0	µg/L							
Arsenic	ND	0.80	µg/L							
Beryllium	ND	0.80	µg/L							
Cadmium	ND	1.0	µg/L							
Chromium	ND	2.0	µg/L							
Copper	ND	10	µg/L							
Iron	ND	100	µg/L							
Lead	ND	2.0	µg/L							
Manganese	ND	2.0	µg/L							
Nickel	ND	10	µg/L							
Selenium	ND	10	µg/L							
Silver	ND	1.0	µg/L							
Thallium	ND	0.40	µg/L							
Zinc	ND	20	µg/L							

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143883 - SW-846 3005A										
LCS (B143883-BS1)				Prepared: 03/09/16 Analyzed: 03/14/16						
Antimony	257	5.0	µg/L	250		103	80-120			
Arsenic	252	2.0	µg/L	250		101	80-120			
Beryllium	226	2.0	µg/L	250		90.4	80-120			
Cadmium	253	2.5	µg/L	250		101	80-120			
Chromium	247	5.0	µg/L	250		98.8	80-120			
Copper	248	25	µg/L	250		99.0	80-120			
Iron	246	250	µg/L	250		98.5	80-120			J
Lead	251	5.0	µg/L	250		101	80-120			
Manganese	250	5.0	µg/L	250		99.9	80-120			
Nickel	247	25	µg/L	250		99.0	80-120			
Selenium	252	25	µg/L	250		101	80-120			
Silver	251	2.5	µg/L	250		100	80-120			
Thallium	242	1.0	µg/L	250		96.9	80-120			
Zinc	243	50	µg/L	250		97.2	80-120			
LCS Dup (B143883-BSD1)				Prepared: 03/09/16 Analyzed: 03/14/16						
Antimony	262	5.0	µg/L	250		105	80-120	2.23	20	
Arsenic	256	2.0	µg/L	250		102	80-120	1.38	20	
Beryllium	234	2.0	µg/L	250		93.6	80-120	3.45	20	
Cadmium	258	2.5	µg/L	250		103	80-120	1.73	20	
Chromium	251	5.0	µg/L	250		100	80-120	1.43	20	
Copper	252	25	µg/L	250		101	80-120	1.66	20	
Iron	251	250	µg/L	250		100	80-120	1.80	20	
Lead	256	5.0	µg/L	250		103	80-120	1.98	20	
Manganese	255	5.0	µg/L	250		102	80-120	2.04	20	
Nickel	252	25	µg/L	250		101	80-120	1.96	20	
Selenium	261	25	µg/L	250		104	80-120	3.68	20	
Silver	254	2.5	µg/L	250		102	80-120	1.39	20	
Thallium	252	1.0	µg/L	250		101	80-120	4.01	20	
Zinc	248	50	µg/L	250		99.1	80-120	1.93	20	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143793 - SM 21-22 4500 NO3 F										
Blank (B143793-BLK1)				Prepared & Analyzed: 03/08/16						
Nitrate as N	ND	50	µg/L							
LCS (B143793-BS1)				Prepared & Analyzed: 03/08/16						
Nitrate as N	2.5		mg/L	2.50		101	88.9-111			
LCS Dup (B143793-BSD1)				Prepared & Analyzed: 03/08/16						
Nitrate as N	2.5		mg/L	2.50		102	88.9-111	0.791	5.66	
Batch B143794 - % Solids										
Duplicate (B143794-DUP3)		**Source: 16C0305-01**		Prepared: 03/08/16 Analyzed: 03/09/16						
% Solids	54.5		% Wt		45.3			18.4	20	
Batch B143821 - SM 21-22 4500 NO3 F Modified										
Blank (B143821-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	ND	2.5	mg/Kg wet							
LCS (B143821-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		101	88.9-111			
LCS Dup (B143821-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		102	88.9-111	0.791	5.66	
Duplicate (B143821-DUP1)		**Source: 16C0305-03**		Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	ND	3.0	mg/Kg dry		ND			NC	26.4	
Matrix Spike (B143821-MS1)		**Source: 16C0305-03**		Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	230	3.0	mg/Kg dry	238	ND	97.5	55.9-136			
Batch B143822 - SM 21-22 4500 NO3 F Modified										
Blank (B143822-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	ND	2.5	mg/Kg wet							
LCS (B143822-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		101	88.9-111			
LCS Dup (B143822-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		102	88.9-111	0.791	5.66	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143822 - SM 21-22 4500 NO3 F Modified										
Duplicate (B143822-DUP1)		**Source: 16C0305-11**		Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	ND	3.0	mg/Kg dry		ND			NC	26.4	
Matrix Spike (B143822-MS1)		**Source: 16C0305-11**		Prepared: 03/09/16 Analyzed: 03/10/16						
Nitrate as N	230	3.0	mg/Kg dry	240	ND	97.5	55.9-136			
Batch B143849 - ASTM D516-07 Modified										
Blank (B143849-BLK1)				Prepared & Analyzed: 03/11/16						
Sulfate	ND	200	mg/Kg wet							
LCS (B143849-BS1)				Prepared & Analyzed: 03/11/16						
Sulfate	2000	200	mg/Kg wet	2000		99.0	83.8-123			
LCS Dup (B143849-BSD1)				Prepared & Analyzed: 03/11/16						
Sulfate	2000	200	mg/Kg wet	2000		98.0	83.8-123	0.914	8.27	
Duplicate (B143849-DUP2)		**Source: 16C0305-02**		Prepared & Analyzed: 03/11/16						
Sulfate	ND	0.11	mg/Kg dry		ND			NC	18	W-06
Matrix Spike (B143849-MS2)		**Source: 16C0305-10**		Prepared & Analyzed: 03/11/16						
Sulfate	4700	550	mg/Kg dry	5540	ND	84.6	37.4-150			W-06
Batch B143852 - ASTM D516-07 Modified										
Blank (B143852-BLK1)				Prepared & Analyzed: 03/11/16						
Sulfate	ND	200	mg/Kg wet							
LCS (B143852-BS1)				Prepared & Analyzed: 03/11/16						
Sulfate	2000	200	mg/Kg wet	2000		99.4	83.8-123			
LCS Dup (B143852-BSD1)				Prepared & Analyzed: 03/11/16						
Sulfate	2000	200	mg/Kg wet	2000		99.4	83.8-123	0.00	8.27	
Batch B143862 - SM21-22 4500 NH3 C Modified										
Blank (B143862-BLK1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	ND	30	mg/Kg wet							
LCS (B143862-BS1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	500	30	mg/Kg wet	500		101	82-106			

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B143862 - SM21-22 4500 NH3 C Modified										
LCS Dup (B143862-BSD1)				Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	520	30	mg/Kg wet	500		104	82-106	2.74	8.24	
Duplicate (B143862-DUP2)		**Source: 16C0305-14**		Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	ND	35	mg/Kg dry		ND			NC	34.8	
Matrix Spike (B143862-MS2)		**Source: 16C0305-14**		Prepared: 03/09/16 Analyzed: 03/10/16						
Ammonia as N	210	35	mg/Kg dry	232	ND	91.0	71.6-116			
Batch B143886 - SM19-22 4500 NH3 C										
Blank (B143886-BLK1)				Prepared & Analyzed: 03/09/16						
Ammonia as N	ND	300	µg/L							
LCS (B143886-BS1)				Prepared & Analyzed: 03/09/16						
Ammonia as N	5000	300	µg/L	5000		101	82-106			
LCS Dup (B143886-BSD1)				Prepared & Analyzed: 03/09/16						
Ammonia as N	5200	300	µg/L	5000		104	82-106	2.74	8.24	
Batch B143918 - SM 21-22 4500 NO3 F Modified										
Blank (B143918-BLK1)				Prepared & Analyzed: 03/10/16						
Nitrate as N	ND	2.5	mg/Kg wet							
LCS (B143918-BS1)				Prepared & Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		101	88.9-111			
LCS Dup (B143918-BSD1)				Prepared & Analyzed: 03/10/16						
Nitrate as N	130	2.5	mg/Kg wet	125		102	88.9-111	0.394	5.66	
Batch B144081 - ASTM D516-07										
Blank (B144081-BLK1)				Prepared & Analyzed: 03/11/16						
Sulfate	ND	2000	µg/L							
LCS (B144081-BS1)				Prepared & Analyzed: 03/11/16						
Sulfate	20000	2000	µg/L	20000		99.4	83.8-123			
LCS Dup (B144081-BSD1)				Prepared & Analyzed: 03/11/16						
Sulfate	20000	2000	µg/L	20000		99.4	83.8-123	0.00	8.27	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B144081 - ASTM D516-07										
Matrix Spike (B144081-MS1)		**Source: 16C0305-08**		Prepared & Analyzed: 03/11/16						
Sulfate	18000	2000	µg/L	20000	ND	92.0	37.4-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all associated results are less than the reporting limit and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
W-06	Elevated method reporting limit due to intense color of sample

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
ASTM D516-07 in Water	
Sulfate	NY,NH,MA,CT,RI,VA,NC
SM 21-22 4500 NO3 F in Water	
Nitrate as N	CT,MA,NH,NY,RI,ME,NC,VA
SM19-22 4500 NH3 C in Water	
Ammonia as N	NY,MA,CT,RI,VA,NC,ME
SM21-22 4500 NH3 C Modified in Soil	
Ammonia as N	NC
SW-846 6020A/B in Soil	
Antimony	NY,NC
Arsenic	NY,VA,NH,NC
Beryllium	VA,NY,NH,NC
Chromium	NY,NC
Copper	NY,NC
Iron	NY,NC
Lead	NY,NC
Manganese	NY,NC
Nickel	NY,NC
Selenium	NY,VA,NH,NC
Silver	NY,NC
Thallium	VA,NY,NH,NC
Zinc	NY,NC
Cadmium	NY,NC
SW-846 6020A/B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Iron	NC
Lead	CT,NH,NY,ME,VA,NC
Manganese	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	NC
Benzene	NC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methyl Cyclohexane	NC
Methylene Chloride	NC
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
Styrene	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8260B in Water	
Acetone	NC
Benzene	NC
Bromobenzene	NC
Bromochloromethane	NC
Bromodichloromethane	NC
Bromoform	NC
Bromomethane	NC
2-Butanone (MEK)	NC
Carbon Disulfide	NC
Carbon Tetrachloride	NC
Chlorobenzene	NC
Chlorodibromomethane	NC
Chloroethane	NC
Chloroform	NC
Chloromethane	NC
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	NC
1,3-Dichlorobenzene	NC
1,4-Dichlorobenzene	NC
Dichlorodifluoromethane (Freon 12)	NC
1,1-Dichloroethane	NC
1,2-Dichloroethane	NC
1,1-Dichloroethylene	NC
cis-1,2-Dichloroethylene	NC
trans-1,2-Dichloroethylene	NC
1,2-Dichloropropane	NC
cis-1,3-Dichloropropene	NC
trans-1,3-Dichloropropene	NC
1,4-Dioxane	NC
Ethylbenzene	NC
Hexachlorobutadiene	NC
2-Hexanone (MBK)	NC
Isopropylbenzene (Cumene)	NC
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methyl Cyclohexane	NC
Methylene Chloride	NC

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
4-Methyl-2-pentanone (MIBK)	NC
Naphthalene	NC
Styrene	NC
1,1,2,2-Tetrachloroethane	NC
Tetrachloroethylene	NC
Toluene	NC
1,2,3-Trichlorobenzene	NC
1,2,4-Trichlorobenzene	NC
1,1,1-Trichloroethane	NC
1,1,2-Trichloroethane	NC
Trichloroethylene	NC
Trichlorofluoromethane (Freon 11)	NC
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	NC
m+p Xylene	NC
o-Xylene	NC
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
Atrazine	ME,NC
2-Fluorophenol	NC
SW-846 8270D in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NC
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

Rev 11.09.2012

con-test® ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 2

16C0305

Company Name: ATC Associates
Address: 2725 E. Millbrook Rd.
Raleigh, NC
Attention: Justin Ballard
Project Location: Raleigh, NC
Sampled By: A.McMillan & R.Harrell

Telephone: 919-871-0999
Project # Old Raleigh #9
Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE
Fax #
Email: Justin.Ballard@atcassocaiates.com
Format: ◆ PDF ◆ EXCEL ☐ GIS
☐ OTHER
☐ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☐ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/~~Time~~	Collection ~~Ending Date~~/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs 8260 + TICs	8260 SIM (1,4-dioxane)	SVOCs by 8270 + TICs	Inorganic hazardous substances by 200.7/200.8	mercury by 7470/7471	ammonia and nitrate by SM 4500	sulfate by ASTM D516	# of Containers	** Preservation	***Container Code
01	SB- 4 (4.5)	03/7/16	1025		x	S		X	X	X	X	X	X	X			
02	SB- 5 (4)	03/7/16	1120		x	S		X	X	X	X	X	X	X			
03	SB- 5 (5)	03/7/16	1130		x	S		X	X	X	X	X	X	X			
04	SB- 5 (12.5)	03/7/16	1140		x	S		X	X	X	X	X	X	X			
05	SB- 1 (3.5)	03/7/16	0945		x	S		X	X	X	X	X	X	X			
06	SB- 1 (10)	03/7/16	0955		x	S		X	X	X	X	X	X	X			
07	DUP-A ~~SB~~	03/7/16	1200		x	S		X	X	X	X	X	X	X			
08	EB-1 ~~SB~~	03/7/16	1020		x	DI		X	X	X	X	X	X	X			
09	SB-1 (5-10)	03/7/16	1330	X		S		X	X	X	X	X	X	X			
10	SB-4 (5-10)	03/7/16	1405	X		S		X	X	X	X	X	X	X			

Comments:
NCDENR Landfill

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
◯ Field Filtered
◯ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other _____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other _____

Relinquished by: (signature)	Date/Time:
[signature]	3/7/16 1532
Received by: (signature) [signature]	Date/Time: 3/7/16 1532
Relinquished by: (signature) [signature]	Date/Time: 3/7/16 1715
Received by: (signature) [signature] 3.0	Date/Time: 3.8.16 9:40

Turnaround †
◉ 5-Day
◯ 7 Day
◯ 10-Day
RUSH †
◯ †24-Hr ◯ †48-Hr
◯ †72-Hr ◯ †4-Day
† Require lab approval

Detection Limit Requirements
North Carolina
☑ 2L
☐ GWPC
☐ SWSL
☑ IHSB
☑ Other * Contact Project Manager *

Program Information
☐ DSCA
☐ SWS Landfill
◉ Other:
☐ IHSB Orphaned Landfill
☐ UST
☐ REC

NELAC & AIHA-LAP, LLC
Accredited
WBE/DBE Certified

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL TO NOT CONTAMINATE THIS DOCUMENT

Table of Contents

Rev 11.09.2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

16C0305

Company Name: ATC Associates
Address: 2725 E. Millbrook Rd.
Raleigh, NC
Attention: Justin Ballard
Project Location: Raleigh, NC
Sampled By: A.McMillan & R.Harrell

Telephone: 919-871-0999
Project # Old Raleigh #9
Client PO#

DATA DELIVERY (check all that apply)
☐ FAX ☒ EMAIL ☐ WEBSITE
Fax #
Email: Justin.Ballard@atcassocaiates.com
Format: ◆ PDF ◆ EXCEL ☐ GIS ☐ OTHER
☐ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☐ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs 8260 + TICs	8260 SIM (1,4-dioxane)	SVOCs by 8270 + TICs	Inorganic hazardous substances by 200.7/200.8	mercury by 7470/7471	ammonia and nitrate by SM 4500	sulfate by ASTM D516				
11	SB- 4 (10-15)	03/ 7 /16	1410	X	~~X~~	S		X	X	X	X	X	X	X				
12	SB- 6 (7.5)	03/ 7/16	1510		x	S		X	X	X	X	X	X	X				
13	SB- 6 (10)	03/ 7/16	1520		x	S		X	X	X	X	X	X	X				
14	SB- 6 (12.5)	03/ 7/16	1525		x	S		X	X	X	X	X	X	X				
15	Trip Blank ~~SB- 2~~	~~03/ /16~~	—	—	~~x~~	~~S~~ SL		X	X									
	SB-	03/ /16			x	S												
	SB-	03/ /16			x	S												
	SB-	03/ /16			x	S												
	SB-	03/ /16			x	S												
	SB-	03/ /16			x	S												

# of Containers
** Preservation
***Container Code

Dissolved Metals
◯ Field Filtered
◯ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
NCDENR Landfill

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	3/7/16 1532
Received by: (signature) [signature]	Date/Time: 3/7/16 1532
Relinquished by: (signature) [signature]	Date/Time: 3/7/16 1715
Received by: (signature) [signature] 3.0	Date/Time: 3.8.16 9:40

Turnaround †
◉ 5-Day
◯ 7 Day
◯ 10-Day
RUSH †
◯ †24-Hr ◯ †48-Hr
◯ †72-Hr ◯ †4-Day
† Require lab approval

Detection Limit Requirements
North Carolina
☑ 2L
☐ GWPC
☐ SWSL
☑ IHSB
☑ Other Contact Project Manager

Program Information
☐ DSCA
☐ SWS Landfill
◉ Other:
☐ IHSB Orphaned Landfill
☐ UST
☐ REC

ACCREDITED IN ACCORDANCE WITH nelac
NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified
AIHA LAP, LLC ACCREDITED LABORATORY

† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: ATC Raleigh **RECEIVED BY**: PB **DATE**: 3/8/2016

1) Was the chain(s) of custody relinquished and signed? **Yes** x **No** ____ **No COC Incl.**

2) Does the chain agree with the samples? **Yes** x **No** ____

If not, explain:

3) Are all the samples in good condition? **Yes** x **No** ____

If not, explain:

4) How were the samples received:

On Ice x Direct from Sampling ____ Ambient ____ In Cooler(s) x

Were the samples received in Temperature Compliance of (2-6°C) ? **Yes** x **No** ____ **N/A** ____

Temperature °C by Temp blank 3 Temperature °C by Temp gun ____

5) Are there Dissolved samples for the lab to filter? **Yes** ____ **No** x

Who was notified ____ Date ____ Time ____

6) Are there any RUSH or SHORT HOLDING TIME samples? **Yes** ____ **No** x

Who was notified ____ Date ____ Time ____

7) Location where samples are stored: Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: ____

8) Do all samples have the proper Acid pH: **Yes** x **No** ____ **N/A** ____

9) Do all samples have the proper Base pH: **Yes** ____ **No** ____ **N/A** x

10) Was the PC notified of any discrepancies with the CoC vs the samples: **Yes** ____ **N/A** x

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber	2		16 oz amber	
500 mL Amber			8 oz amber/clear jar	13 Ambers
250 mL Amber (8oz amber)			4 oz amber/clear jar	13 Ambers
1 Liter Plastic			2 oz amber/clear jar	
500 mL Plastic	2		Plastic Bag / Ziploc	
250 mL plastic	1		SOC Kit	
40 mL Vial - type listed below	79		Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

40 mL vials:	# HCl	8	# Methanol	15
	# Bisulfate	56	# DI Water	
	# Thiosulfate		Unpreserved	

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

Question	Answer (True/False) T/F/NA	Comment
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requsted analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	T	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	T	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements? **Date/Time:**

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** PB **Date/Time: 3/8/16**

APPENDIX C

FIELD BORING LOGS

ATC ASSOCIATES INC.

BORING LOG:

SB-1

Site: ORLF #9

Date(s) Drilled	: 3/4/16 + 3/7/16	Boring Diameter	: 3" / 10"
Drilling Conractor	: GES	Sampling Method	: HAND AUGER, TEFLON,
Drilling Method	: HAND AUGER + DPT / HSA	Sampling Interval	: HSA COMPOSITE 2.5' / 5'
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0	0		0-1 (ASPHALT)
2	N	0	0		(1-3.5) REDDISH-BROWN SANDY CLAY
4	Y	0	0		(3.5-5) MOIST GRAY SANDY CLAY
6					WASTE: PLASTIC, STYROFOAM, WOOD
8	Y	0	0		(5-10) (NO RECOVERY) / MOIST GRAY SANDY CLAY
10					WASTE: PAPER, WOOD, PLASTIC, GLASS
12	N	0	0		(10-13) NO RECOVERY / (10-14) LIGHT GRAY CLAYEY SAND
14	N	0	0		(14-15) WET ORANGISH-BROWN CLAYEY SAND
16	N	0	0		
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15'
Groundwater Depth: N/A
Samples collected: SB-1(3.5) from 3.5-5' bgs @ 0945, DUP-A from 3.5-5' bgs, SB-1(10) from 10-15' bgs ~~AS COMPOSITE~~ @ 0955, SB-1(5-10) from 5-10' bgs AS COMPOSITE @ 1330
Additional Notes: ALL SAMPLES COLLECTED 3/7/16

TEFLON = 1 LINER

07-03-2013 S:\Enviro\Landfill Contract\NONCD0000691 (Old Raleigh LF #8)\Boring Logs\Boring Log Template.bor

BORING LOG:

SB-2

ATC ASSOCIATES INC.

Site: ORLF #9

Date(s) Drilled	: 3/4/16	Boring Diameter	: 3"
Drilling Conractor	: GES	Sampling Method	: TEFLON
Drilling Method	: DPT	Sampling Interval	: 2.5'
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0	0		(0-1) ASPHALT
2	N	0	0		(1-2) REDDISH-BROWN SANDY CLAY
4	N	0	0		(2-4) MOIST GRAY SANDY CLAY
6	N	0	0		(4-8) MOIST REDDISH CLAY
8	N	0	0		(8-9.5) BROWN CLAYEY SAND
10	Y	0	0		(9.5-12) WET GRAYISH BLACK SAND WITH ORGANICS WASTE! GLASS, WIRE, PLASTIC
12	N	0	0		(12-13) MOIST GRAY SANDY CLAY
14	N	0	0		(13-14) BROWNISH-RED SANDY CLAY
	N	0	0		(14-15) WET GRAY CLAYEY SAND
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15'
Groundwater Depth: 14'
Samples collected: SB-2(10) from 9.5-12' bgs @ 1150 AND SB-2(12) from 12.5-15' bgs @ 1210

Additional Notes:

TEFLON LINERS: 2

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ATC ASSOCIATES INC.

BORING LOG: SB-3

Site: ORLF #9

Date(s) Drilled	: 3/4/16	Boring Diameter	: 3"
Drilling Conractor	: GES	Sampling Method	: TEFLON
Drilling Method	: HAND AUGER & DPT	Sampling Interval	: 2.5'
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0–2	N	0	0		(0 - 2) REDDISH-BROWN SANDY CLAY WITH GRAVEL
2–3	N	0	0		(2 - 3) REDDISH-BROWN SANDY CLAY
3–6	N	0	0		(3 - 6) BROWN SAND WITH GRAVEL
6–10	Y	0	0		(6-10) BROWNISH-GRAY CLAYEY SAND WASTE: RUBBER, PLASTIC, WOOD, METAL
10–11	N	0	0		(10-11) MOIST GRAY CLAYEY SAND
11–13	N	0	0		(11-13) GRAYISH-ORANGE SANDY CLAY
13–15	N	0	0 ▽		(13-15) GRAY CLAYEY SAND (WET @ 15')

LIMITED RECOVERY

Boring Termination Depth: 15'
Groundwater Depth: 15'
Samples collected: SB-3(6) FROM 6-10' bgs @ 1410 + SB-3(12.5) FROM 12.5-15' bgs @ 1430

Additional Notes: A DUPLICATE SAMPLE WAS PLANNED FOR THE BORING. DUE TO RECOVERY LIMITATIONS, NO DUPLICATE SAMPLE WAS COLLECTED.

TEFLON: 2 LINERS

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ATC ASSOCIATES INC.

BORING LOG:

SB-4

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 3/7/16	Boring Diameter : 3"	
	Drilling Conractor : GES	Sampling Method : ~~2.5"~~ 4" TEFLON	
	Drilling Method : HAND AUGER DPT + HSA	Sampling Interval : 2.5'	
		Logged By : E. HARRELL	

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0					~~(0-0.5) GRASS, ROOTS & BROWNISH-RED SANDY CLAY~~	
2	N	0	0		(0.5-1) BROWNISH-RED SANDY CLAY WITH GRAVEL	
4						
6					(1-3) TAN CLAYEY SAND WITH GRAVEL	
					(3-4.5) GRAY CLAYEY SAND	
8					(4.5-5) BROWN CLAYEY SAND	
10	Y	0	0		WASTE: METAL, PLASTIC, GLASS	
12			▽		(5-10) NO RECOVERY / GRAY CLAYEY SAND WASTE: CLOTH, RUBBER, GLASS, WOOD	
14					(10-15) VERY LIMITED RECOVERY	
16					15 - MOIST GRAY CLAYEY SAND WASTE: GLASS, METAL, ELECTRONIC PARTS, WOOD / WET @ 13' bgs	
18	N	0	0			
20					(15-20) WET 15-19 BROWNISH-RED SANDY CLAY 19-20 COARSE SAND WITH QUARTZ + GRAVEL	
22						
24						
26						
28					(5-10) = WET GRAY SANDY CLAY WASTE:	
30						
32						
34						
36						
38						
40						

Boring Termination Depth:
Groundwater Depth:
Samples collected: ~~SB-4~~ SB-4(4.5) @ 1025 FROM 4.5 - 7 FT BGS
Additional Notes: 1405: SB-4(5-10) FROM 5-10' bgs ; 1410 SB-4(10-15) FROM 10-15' bgs.

TEFLON: 1 LINER

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ATC ASSOCIATES INC.

BORING LOG:

SB-5

Site: Old Raleigh #9 Landfill

Date(s) Drilled : 3/7/16
Drilling Conractor : GEJ
Drilling Method : HAND AUGER & DPT

Boring Diameter : 3"
Sampling Method : TEFLON
Sampling Interval : 2.5'
Logged By : R. HANSEN

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					(0-1) ASPHALT
2	N	0	0		(1-3) REDDISH-BROWN CLAYEY SAND
4					(3-4) ~~[illegible]~~ GRAY CLAYEY SAND
	Y	0	0		(4-5) MOIST GRAY CLAYEY SAND WASTE: GLASS, STYROFOAM
6					(5-10) LIMITED RECOVERY (~3 ft total) GRAY CLAYEY SAND WASTE: STYROFOAM, GLASS
8	Y	0	0		
10					
12					10-12.5 BROWN CLAYEY SAND (VERY LIMITED RECOVERY) (~2.5 ft total) WASTE: VERY DENSE WASTE GLASS, STYROFOAM, METAL
14					
16	N	0	0		12.5-14 GRAY CLAYEY SAND
18					14-15 ORANGE-RED SANDY SILTY CLAY
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth:
Groundwater Depth:
Samples collected: SB-5(4) @ 1120 FROM 4-5' bgs, SB-5(5) @ 1130 FROM 5-10' bgs
Additional Notes: SB-5(12.5) @ 1140 FROM 12.5-15' bgs

TEFLON: 2

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ATC ASSOCIATES INC.

BORING LOG:

SB-6

Site: Old Raleigh #9 Landfill

Date(s) Drilled : 3/7/16
Drilling Conractor : GES
Drilling Method : Hand Auger

Boring Diameter : 3"
Sampling Method : TEFLON
Sampling Interval : 2.5'

Logged By : R. Hagen

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					(0-1) ASPHALT
2					(1-3) BROWN CLAYEY SAND WITH GRAVEL
4	N	0	0		(3-3.5) GRAY SAND
6					(3.5-7.5) BROWNISH-RED SANDY CLAY WITH MICA
8					(7.5-13) BROWN SANDY CLAY
10	Y	0	0		WASTE; PLASTIC, WOOD, PAPER
12					(13-15) GRAY + BROWN SANDY CLAY
14	N	0	0		
16					BORING TERMINATED @ 15' bgs
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: SB-6(7.5) @ 1510 From 7.5-10' bgs, SB-6(10) @ 1520 From 10-12.5
Additional Notes: SB-6(12.5) @ 1535 From 12.5-15' bgs,

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BORING LOG:

SB-7

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/7/16	Boring Diameter	: 3"
Drilling Conractor	: GES	Sampling Method	: ~~2.4"~~ TEFLON
Drilling Method	: HAND AUGER DPT	Sampling Interval	: 2.5'
		Logged By	: R. HARGER

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					(0-0.5) GRASS ROOTS, REDDISH-BROWN CLAYEY SAND
2	N	0	0		(0.5-3.5) REDDISH-BROWN CLAYEY SAND WITH GRAVEL
4	Y	0	0		(3.5-5) WET GRAY CLAYEY SAND WASTE! GLASS, PLASTIC, METAL, WOOD
6					
8					(5-10) NO RECOVERY / WET GRAY CLAYEY SAND W/ ORANGE RED SANDY CLAY WASTE! WOOD, GLASS, METAL, CLOTH, PLASTIC
10					
12	?	?	?		(10-15) LIMITED RECOVERY NONE FROM (10-12.5)
14	N	0	0		12.5-15 - GRAY CLAYEY SAND
16					BORING TERMINATED @ 15' bgs
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: SB-7(3.5) @ 1600 FROM 3.5-5' bgs. SB-7(12.5) @ 1615 FROM 12.5-15' bgs
SB-7(5-10) @ 1625
Additional Notes:

ATC ASSOCIATES INC.

BORING LOG: SB-8

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled : 3-8-16
Drilling Conractor : 6EX
Drilling Method : Hand Auger DPT

Boring Diameter : 3 in
Sampling Method : Grab
Sampling Interval : 2.5 ft
Logged By : R W + Am

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					0-0.5 Pavement
2	N	0	0		0.5-3.5 moist Silty Clay Brown
4	Y	0	0		3.5-5 moist Silty Clay Clay
6					Trash: Plastic, Aluminum foil, metal paper
8	Y	0	0		
10					5-10 DPT → No recovery (trash @ cutting shoe) → Auger 5-10 + Collect composite
12	Y	0	0		
14	N	0	0		10-15 limited recovery (4 ft total)
16					10-12 Silty Clay trash: Cloth moist Gray
18					12-15 Native Soil Silty clay tan
20					
22					
24					5-10 very wet (Purched water)
26					gray Silty Clay
28					trash: Plastic, cloth, paper, metal
30					Mulch
32					
34					
36					
38					
40					

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: SB-8(3.5) 3.5-5 collected @ 0830; SB-8(10) 10-12 collected @ 0850
Additional Notes: SB-8(13) 13-15 collected 0900; SB-8(5-10) Collected @ 0905
Teflon line: 1

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ATC ASSOCIATES INC.

BORING LOG: SB-9

(Page 1 of 1)

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 3-8-16	Boring Diameter : 3in	
	Drilling Conractor : GSX	Sampling Method : Grab	
	Drilling Method : hand auger GPT	Sampling Interval : every 2.5 ft	
		Logged By : Ann	

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0	N	0	0		0-0.5 asphalt	
2	N				0.5-4 Moist Silty Clay Brown	
4	Y	0	0		4-5 Trash? Plastic, metal, shaper glass wet Sandy Clay Brown	
6						
8	Y	0	0		5-10 limited recovery (~2.5 ft) Greenish grey, moist to dry, Silty clay trash? shaper, glass	
10						
12	N	0	0		10-15 (~1.5 ft): limited recovery Greenish gray to tan, dry to moist Silty ~~clay~~ Sand	
14						
16						
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 15'

Groundwater Depth: N/A

Samples collected: SB-9 (4) from 4'-5' @ 1005; SB-9 (5) @ 1015 from 5-10' bgs, ~~10-15~~

Additional Notes: SB-9 (13.5) from 13.5-15 1025 Only 2.5' ft of recovery

Teflon line - 2

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VATC ASSOCIATES INC.

BORING LOG: SB-10

Site: Old Raleigh #9 Landfill

Date(s) Drilled : GEX
Drilling Conractor : 3-8-16
Drilling Method : Hand Auger DPT

Boring Diameter : 3.4
Sampling Method : glas
Sampling Interval : 2.5 ft
Logged By : AM

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					0-0.5 Pavement
2	N	0	0		0.5-14 gray Moist Silty Sand to tan / hit refusal @ 4 ft. offset ~~Backed possible UI~~
4					
6					
8	Y	0	0		0-0.5 Pavement
10					0.5-5 gray moist Silty sand
12	Y	0	0		5-10 limited recovery (~1.5 ft) Silty Sand gray moist / mixed grain trash: Brick, glass, plastic
14	N	0	0		
16					
18					10-15 ~3 ft: limited recovery
20					
22					10-12.5 wet Silty Clay gray trash: glass plastic
24					
26					12.5-15 dry Silty ~~Clay~~ Sand tan to gray
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: Collected SB-10 (5) from 5-10 @ 1120; SB-10 (10) from 10-12.5 @ 1130; SB-10 (12.5) from 12.5-15 @ 1135

Additional Notes:

150

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ATC ASSOCIATES INC.

BORING LOG: SB-11

Site: Old Raleigh #9 Landfill

Date(s) Drilled : 3-8-16
Drilling Conractor : GEX
Drilling Method : DPT Hydrauger

Boring Diameter : 3-in
Sampling Method : Grab
Sampling Interval : every 2ft
Logged By : AM

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2	N	0	0		0-0.5 Pavement
4					0.5-5 Brown Clayey Sand dry
6	N	0	0		5-10 limited recovery (~3 ft)
8	N	0	0		5-8 dry Silty clay tan
10	Y	0	0		8-10 moist gray Silty clay trash: wood, plastic
12	Y	0	0		
14	N	0	0		10-15 limited recovery (~4 ft)
16					
18	N	0	0		10-12.5 gray moist Clayey Silt (trash: Paper & Plastic, Metal)
20					12.5-15 gray moist Clayey Silt (native)
22					15-20 compacted to 3 ft moist Sand w/ Quartz & gravel
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20
Groundwater Depth: WIH
Samples collected: SB-11 (8) 1317 (8-10); SB-11 (10) 1325 (10-12.5); SB-11 (12.5) @ 1330 (12.5-15)

Additional Notes:

TEFLON Liners: 3

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BORING LOG:

B-1

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 2/23/16	Boring Diameter	: 6"
Drilling Conractor	: KENNY SARGENT (GES)	Sampling Method	: N/A
Drilling Method	: HAND AUGERS HSA	Sampling Interval	: CONTINUOUS
		Logged By	: B. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			ASPHALT (0-0.5)
2	N				BROWNISH-RED SILTY CLAY (0-4)
4	N				BROWNISH-RED SILTY CLAY w/ MICA & TRACE GRAY ~~CLAY w/ SANDY~~ SILTY CLAY (4-8)
6					
8					MOIST GRAY SILTY w/ CLAY (8-13)
10	N				
12					
14					~~TAN/ORANGE~~ YELLOW-ORANGE CLAYEY SILT (13-19)
16	N				
18					
19					WET AT 19' — BORING TERMINATED
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 19
Groundwater Depth: 19
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-1A

(Page 1 of 1)

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 2/29/16	Boring Diameter : 6"	
	Drilling Conractor : GSA	Sampling Method : N/A	
	Drilling Method : HAND AUGER/ HSA	Sampling Interval : CONTINUOUS	
		Logged By : R. HARKEN	

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0	N	0			0-1 (ASPHALT)	
2					BROWNISH-RED SILTY CLAY W/ MICA TRACE GRAY SANDY CLAY (1-7)	
4	N					
6						
8					BROWNISH-RED SILTY CLAY TRACE MICA MOIST (7-13)	
10	N					
12						
14	N				GRAY SANDY SILT (13-14)	
	N				(14-15) LIGHT TAN SILTY CLAY	
16					BORING TERMINATED @ 15'	
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 15'
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-1B

(Page 1 of 1)

Site: ORLF #9

Date(s) Drilled	: 2/29/16	Boring Diameter	: 6"
Drilling Conractor	: GES (K. SARGENT)	Sampling Method	: N/A
Drilling Method	: HAND AUGER & HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-4) BROWNISH-RED SANDY CLAY WITH MICA & TRACE GRAY CLAYEY SAND
4					
6	Y	0			(4-10) MOIST BROWNISH-RED SANDY CLAY WASTE: PLASTIC, CLOTH, WOOD
8					
10					
12	Y	0			(10-13) BROWN SANDY CLAY WASTE: PLASTIC, WOOD
14	N	0			(13-15) GRAY SILT WITH CLAY
16					BORING TERMINATED @ 15'
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 15'
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

BORING LOG: B-2

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 2/29/16	Boring Diameter	: 10"
Drilling Conractor	: CES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			0-1 (ASPHALT)
2	N	0			SUB-BASE
4	N	0			REDDISH BROWN SILTY CLAY
6					
8					
10	Y	0			GRAY SILT w/ ORGANICS WASTE (PLASTIC, GLASS, WOOD)
12					
14	Y	0			LIGHT BROWN SILT w/ ORGANICS WASTE (PLASTIC, WOOD)
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15' bls
Groundwater Depth: 15' bls
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-3

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 2/29/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGERED HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			0-1 (ASPHALT)
2					REDDISH-BROWN SILTY CLAY
4	N	0			
6					
8					GRAY CLAYEY SILT (8-12)
10	N	0			
12	N	0			LIGHT BROWN SILTY CLAY (12-13)
14	N	0			GRAY CLAYEY SILT (13-14)
	N	0			ORANGE SILTY CLAY (14-15)
16					TERMINATED @ 15'
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15'
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG:

B-3A

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 2/29/16	Boring Diameter	: 10
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			0-1 ASPHALT
2	N	0			BROWN CLAY WITH MICA (1-3)
4	N	0			REDDISH-BROWN SANDY CLAY WITH MICA (3-4)
	N	0			MOIST, GRAY SILT (4-4.5)
6	N	0			REDDISH-BROWN SILTY CLAY (4.5-8)
8					GRAY CLAYEY SILT (8-10)
10					REDDISH-BROWN SILTY CLAY (10-12)
12					GRAY CLAYEY SILT (12-13)
14					REDDISH-BROWN SILTY CLAY (13-15)
16					BORING TERMINATED @ 15'
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-3B

(Page 1 of 1)

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 2/29/16	Boring Diameter : 10"	
	Drilling Conractor : GES	Sampling Method : N/A	
	Drilling Method : Hand Auger + HSA	Sampling Interval : Continuous	
		Logged By : R. Harrell	

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0	N	0			(0-1) ASPHALT	
2	N	0			(1-2.5) REDDISH-BROWN ~~SILTY~~ SANDY CLAY	
	N	0			(2.5-3) LIGHT GRAY CLAY	
4	N	0			(3-5) LIGHT GRAY SANDY CLAY	
6					BROWN SANDY CLAY WITH TRACE MICA	
8	N	0			(5-10)	
10						
12	Y	0			GRAY SILT WITH ORGANICS (10-14)	
14					WASTE (WOOD, PLASTIC)	
16	N	0			LIGHT BROWNISH ORANGE CLAY (14-15)	
18					BORING TERMINATED @ 15' bls	
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 15'
Groundwater Depth: N/A
Samples collected: N/A
Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG:

B-4

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 2/29/16	Boring Diameter : 10"	
	Drilling Conractor : GES	Sampling Method : N/A	
	Drilling Method : HAND AUGER + ASA	Sampling Interval : CONTINUOUS	
		Logged By : R. HARZEN	

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			0-1 Asphalt
2	N	0			1-3 Reddish Brown Sandy Clay Moist
4	N	0			3-5 Greyish brown Silty Clay very moist
6					5-10 Greyish Brown Silty Clay Very Moist
8	N	0			
10					10-13 Greyish brown Silty Clay Very Moist
12	N	0			13-15 grey Clayey Sand wet
14	N	0			15-20 tan Clayey Sand wet
16					20-25" Sandy Silt Very wet
18	N	0			25-26" Sandy Silt very wet
20					
22		0			26- Refusal Rig did not encounter "hard material" - Driller thinks Possible tight formation
24	N				
26	N	0			
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 26 ft
Groundwater Depth: 20 ft
Samples collected: none
Additional Notes: @ 20 ft bgs Sandy Silt flowed like thick liquid - encountered Groundwater

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BORING LOG:

B-4A

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 2/29/16 + 3/1/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: Hand Auger + HSA	Sampling Interval	: Continuous
		Logged By	: R. Harrell

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			~~(0-1) Asphalt~~
2	N	0			(1-3.5) Brownish-Red Sandy Clay ~~w/sand~~ RH Moist
4	Y	>100			(3.5-5) Grayish Brown Silty Clay Very Moist—Wet (Waste=Plastic, Wood)
6					Stopped @ 1605 due to high CH_4
8					At 0740 on 3/1 LEL=0%
10					
12	Y	0			(5-9) Grayish Brown Silty Clay (Moist) - Some Organics (Waste=Wood) RH, Cans, Plastic
14					
16	Y	0			(9-15) " " Wet @ 9 Waste = Metal, Plastic
18					
20	Y	0			(15-18) Gray Silt—Wet Waste: Plastic
22	N	0			(18-19) Yellow-Orange Silty Clay Moist
24					
26					Boring Terminated at 19'
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 19
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG:

B-5

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/1/16	Boring Diameter	: 10"
Drilling Conractor	: GSIA	Sampling Method	: N/A
Drilling Method	: HAND AUGER & HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-0.5) VEGETATION, ROOTS, BROWNISH-RED CLAY
2	N	0			0.5-3 ~~BRN~~ REDDISH-BROWN CLAY, TRACE GRAVEL
4	Y	0			(3-4) BROWNISH-RED CLAY, GRAVEL WASTE= PLASTIC, CLOTH
6					
8					
10	N	0			(4-5) GRAVEL
12	Y	0			5-8 GRAY SILTY CLAY WASTE= PLASTIC, WOOD
14	N	0			8-9 LIGHT ORANGE CLAY WASTE= " "
16	Y	0			9-14 GRAY SILTY CLAY WASTE= " "
18	Y	0			15-18 BLACK SILT W/ ORGANICS WASTE= " " , WOOD, WIRE, METAL
20					
22	Y	0			18-22 GRAY SILT MOIST WASTE= WOOD, PLASTIC
24					
26	N	0			22-25 WET GRAY SANDY SILT
28					
30					REFUSAL @ 25'
32					
34					
36					
38					
40					

Boring Termination Depth: 25
Groundwater Depth: N/A
Samples collected: N/A
Additional Notes: FROM 22-25, SOME WOOD WASTE IN CUTTINGS, BUT FREQUENCY MUCH LESS THAN PREVIOUS, POSSIBLY FROM SHALLOWER DEPTH. NO PLASTIC CLOTH, OR METAL WASTE.

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BORING LOG:

B-6

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/1/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-0.5) VEGETATION, ROOTS, GRASS
	N	0			(0.5-3) BROWNISH-RED SANDY CLAY
2					
4	N	0			(3-5) LIGHT GRAY SANDY CLAY WITH MICA
6	N	0			REDDISH-BROWN CLAY (5-7)
8	Y	3%			BROWNISH-GRAY SILTY CLAY WASTE: STYROFOAM, PLASTIC, GLASS (7-14)
10					
12					
14					GRAY SILT MOIST-WET (14-18)
16	Y	0			WASTE: PLASTIC, METAL, CLOTH
18					18-18.5 REDDISH-BROWN CLAY (NO WASTE), MOIST
	N	0 ▽			GRAY SILT, WET (18.5-19.5)
20					BORING TERMINATED @ 19.5' bgs
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 19.5'
Groundwater Depth: 19
Samples collected: N/A

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG:

B-7

Site: Old Raleigh #9 Landfill

Date(s) Drilled : 3/1/16
Drilling Conractor : GES
Drilling Method : HAND AUGER + HSA

Boring Diameter : 10"
Sampling Method : N/A
Sampling Interval : CONTINUOUS
Logged By : R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			0-0.5 VEGETATION, GRASS, BROWNISH-RED SANDY CLAY
2	N	0			0.5-3 BROWNISH-RED SANDY CLAY
4	N	0			3-3.5 BROWNISH-RED SANDY CLAY WITH GRAVEL
6					3.5-7 BROWNISH-RED SANDY CLAY
8	Y	15			7-14 BROWNISH-GRAY SANDY SILT
10					WASTE; PLASTIC, WOOD, GLASS, GRASS CLIPPINGS, CLOTH
12					
14	N	0			14-~~16~~ 15' GREENISH-GRAY SANDY SILT, MOIST
16					BORING TERMINATED AT 15'
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes: N/A

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BORING LOG:

B-8

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/1/16	Boring Diameter	: 10
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER & HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-3) REDDISH-BROWN SANDY CLAY WITH MICA
4	N	0			(3-5) BROWN CLAYEY SAND WITH GRAVEL
6	N	0			
8	N	0			(5-7) BROWNISH-GRAY CLAYEY SAND
10					(7-8) BROWN SANDY CLAY
12	N	0			(8-15) BROWNISH-RED CLAY
14					
16					BORING TERMINATED @ 15' bgs
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B-8A

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 3/2/16	Boring Diameter : 10"	
	Drilling Conractor : Geo	Sampling Method :	
	Drilling Method : Hand Auger/	Sampling Interval : Continuous	
		Logged By : C. Nobles	

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0	N				0-1 Asphalt	
2	N				1-2 brownish red sandy clay	
4	N				2-3 brownish red sandy clay with mica	
6	N				3-5 light brown dry clayey sand	
8						
10	N				5-9 Brown moist sandy clay	
12						
14	N				9-13 Redish orange dry sandy clay	
16						
18	N				13-17 Redish brown dry sandy clay	
20					17-20 Grey moist clayey sand	
22						
24						
26						
28					Boring terminated at 20 ft.	
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 20
Groundwater Depth: NA
Samples collected: NA

Additional Notes:

ATC ASSOCIATES INC.

BORING LOG: B-8B

Site: Old Raleigh #9 Landfill

Date(s) Drilled : 3-2-16
Drilling Conractor : Gex
Drilling Method : Hand Auger/ HSA

Boring Diameter : 10"
Sampling Method : NA
Sampling Interval : Continuous
Logged By : C. Nobles

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N				0-1 Asphalt
2					1-3 Brownish grey dry clayey Sand
4	N				
6	N				3-4 Brown sandy clay
8					4-6 Redish orange Sandy Clay with Mica
10					
12	Y				6-23 Dark brown to black soil w plastic, cloth + metal Brick Clayey Sand.
14					
16					
18					
20					23-30 Grey moist clayey sand
22					
24					
26	N				
28					
30					Boring terminated at 30 ft.
32					
34					
36					
38					
40					

Boring Termination Depth: 30 ft.
Groundwater Depth: NA
Samples collected: NA

Additional Notes:

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BORING LOG: B-8C

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/2/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-3) BROWNISH GRAY CLAYEY SAND
4					(3-7) BROWNISH RED SANDY CLAY
6	N	0			
8	Y	0			(7-9) GRAY CLAYEY SAND - MOIST WASTE: PLASTIC, METAL, CLOTH
10	Y	0			
12					(9-12) REDDISH BROWN SANDY CLAY WASTE: WOOD, PLASTIC, METAL
14	Y	0			
16					(12-17) BROWNISH RED SANDY CLAY WASTE: WOOD, METAL (SPARSE)
18	N	0			
20	Y	0			(17-19) GRAY ~~SAN~~ CLAYEY SAND
22					(19-23) BROWN CLAYEY SAND WASTE: WOOD, PLASTIC, METAL, CLOTH
24	N	0			(23-25) GRAY CLAYEY SAND
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth:
Groundwater Depth:
Samples collected:

Additional Notes:

BORING LOG:

B-8D

(Page 1 of 1)

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 3/3/16	Boring Diameter : 10"	
	Drilling Conractor : GES	Sampling Method : N/A	
	Drilling Method : HAND AUGER + HSA	Sampling Interval : CONTINUOUS	
		Logged By : R. HARRELL	

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0	N	0		ZH	(0-2) ASPHALT	
2	N	0			BROWN SAND (2-3) WITH GRAVEL	
4	N	0			(3-6) BROWNISH-RED SANDY CLAY WITH MICA	
6	N	0			(6-9) LIGHT BROWN SANDY CLAY	
8	N	0			(9-13) GRAYISH-LIGHT BROWN SANDY CLAY WASTE: PLASTIC, WOOD, GLASS, METAL, WIRES	
10	Y	0			(13-17) MOIST LIGHT BROWN SANDY CLAY, WASTE: (SPARSE) PLASTIC, WOOD	
12					(17-20) LIGHT GRAY SANDY, SILTY CLAY	
14						
16	Y	0				
18						
20		▽		~19.5	BORING TERMINATED AT 20' bgs	
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 20
Groundwater Depth: ~19.5
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-8E

ATC ASSOCIATES INC.

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-1.5) BROWN SAND WITH GRAVEL
	N	0			(1.5-3) BROWNISH-RED SANDY CLAY
4	N	0			(3-4.5) LIGHT BROWN CLAYEY SAND
6	N	0			(4.5-7) BROWN SANDY CLAY
8	N	0			(7-8) WHITE MICA CLAY-FINE GRAINED
10	N	0			(8-11) BROWNISH-RED SANDY CLAY
12					SOME WOOD @ 8' - APPEAR TO BE ROOTS + RECENTLY ALIVE
14	Y	0			(11-~~14~~ 17) BROWNISH-RED SANDY CLAY WASTE; INTERMITTENT PLASTIC, METAL, WOOD
16					
18	N	0			(17-19) GRAY CLAYEY SAND
20	N	0			(19-21) LIGHT BROWN CLAYEY SAND w/ ROCK (~4-6")
22					REFUSAL @ 21'
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 21'
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-8F

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: Hand Auger + HSA	Sampling Interval	: Continuous
		Logged By	: R. Harrell

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) Asphalt
2	N	0			(1-3) Brown clayey sand with gravel
4	N	0			(3-3.5) Gray sand
6	N	0			(3.5-7) Brownish red sandy clay with mica
8					
10	Y	0			(7-13) Brown sandy clay waste; plastic, wood, metal, cloth
12					
14	N	0			(13-15) Gray clayey sand - moist
16	N	0			(15-17) Brown sandy clay - moist
18	N	0			(17-20) Brown sandy clay - moist w/ rocks (4-6" from 17-19)
20					Boring terminated at 20' bgs
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20'
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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BORING LOG: B-8G

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/14	Boring Diameter	: 16"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. Harrah

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-2) ASPHALT
2	Y	0			(2-4) BROWNISH-RED SANDY CLAY WITH GRAVEL (WASTE: GLASS) WITH GRAYISH-GREEN CLAY
4	Y	0			(4-7) BROWN CLAYEY SAND WASTE: PLASTIC, WIRE
6	Y	0			
8	Y	0			
10					(7-9) LIGHT BROWN SAND WASTE: CLOTH, GLASS
12	Y	0			
14					(9-14) BLACK SILTY SAND WITH ORGANICS WASTE: WOOD, WIRES, CLOTH, PLASTIC (MOIST)
16					
18	Y	0			(14-19) BLACKISH GRAY SANDY CLAY WITH ORGANICS WASTE: PLASTIC, WOOD, CLOTH (MOIST)
20					
22	Y	0			
24		▽			19-24 GRAY SANDY SILT ~~WET~~ RIT (MOIST) → WASTE: INTERMITTENT WIRES
26					24-25 WET GRAY SILT ~~WASTE: RH~~ BORING TERMINATED @ 25
28					
30					
32					
34					
36					
38					
40					

VERY LITTLE WASTE

Boring Termination Depth: 25
Groundwater Depth: 24
Samples collected: N/A

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B-9

Site: ORLF #9

Date(s) Drilled	: 3/1/16	Boring Diameter	: 10"
Drilling Conractor	: GED	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-3) GRAY CLAYEY SAND
4	N	0			(3-5) GRAVEL & ASPHALT
6	N	0			(5-7) RED SANDY CLAY
8	N	0			(7-8.5) GRAY CLAYEY SAND
10	N	0			(8.5-10) LIGHT BROWN SANDY CLAY
12	N	0			(10-13) DARK GRAY CLAYEY SAND WITH GRAVEL
14					
16	Y	0			(13-19) WET GRAY SILTY SAND WASTE: PLASTIC, RUBBER, CLOTH
18		▽			
20					(19-25) SATURATED GRAY SILTY SAND
22	Y	0			WASTE: PLASTIC, RUBBER, CLOTH
24					
26					(25-30) SATURATED GRAY SILTY SAND
28	N	0			
30					BORING TERMINATED @ 30' bgs
32					
34					
36					
38					
40					

Boring Termination Depth:
Groundwater Depth:
Samples collected:

Additional Notes:

ATC ASSOCIATES INC.

BORING LOG:

B-10

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/1/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			1-3 ORANGE SANDY CLAY
4	N	0			3-6 GRAY CLAYEY SAND
6	Y	0			~~B FILL~~ 6-9 BLACK SANDY SILT WITH ORGANICS WASTE: WOOD, CLOTH, PLASTIC, GLASS, METAL
8					
10					
12	Y	0			9-16 LIGHT BROWN SANDY CLAY WASTE: PLASTIC, VERY INTERMITTENT
14					
16	N	0			~~16-17 FILL~~ 16-17 LIGHT GRAY SANDY SILT
18					BORING TERMINATED AT 17' bgs
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 17
Groundwater Depth: NA
Samples collected: N/A
Additional Notes: N/A

ATC ASSOCIATES INC.

BORING LOG:

B-11

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/1/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-3) ORANGE-RED SANDY CLAY
4	N	0			(3-4) GRAY CLAYEY SAND
6	Y/N	0			(4-6) BROWNISH GRAY SANDY CLAY WASTE: STYROFOAM (1 PIECE IN HAND AUGER @ ~4ft)
8					
10	N	0			(6-13) REDDISH-BROWN SANDY CLAY
12					
14	N	0			(13-17) GRAY SAND
16					(17-19) BROWNISH-RED SANDY CLAY
18	N	0			
20	N	0			19-21 ROCK ~4-6in DIAMETER WITH BROWNISH-RED SANDY CLAY
22	N	0			21-25 BROWNISH-RED CLAY
24					
26					BORING TERMINATED @ 25'
28					
30					RH Boring 6
32					
34					
36					
38					
40					

Boring Termination Depth:
Groundwater Depth:
Samples collected:

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG:

B-11A

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-2) BROWN CLAYEY SAND WITH GRAVEL
4	N	0			(2-3.5) BROWNISH RED SANDY CLAY
6	N	0			(3.5-5) GRAY SAND
8	N	0			(5-8) MOIST BROWN SANDY CLAY WASTE: PLASTIC BAG @ 5'
10	N	0			8-10 LIGHT BROWN CLAYEY SAND
12	N	0			10-11 LIGHT BROWN SANDY CLAY
14	N	0			11-12 GRAY CLAYEY SAND
16	N	0			12-16 LIGHT BROWN CLAYEY SAND
18	N	0			16-20 BROWN CLAYEY SAND (MOIST)
20					BORING TERMINATED @ 20' bgs
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

BORING LOG:

B-11B

(Page 1 of 1)

ATC ASSOCIATES INC.

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	~~Y~~ N	0			(0-1) ASPHALT
2	N	0			(1-2) BROWN CLAYEY SAND WITH GRAVEL
4	N	0			(2-4) BROWNISH RED CLAYEY SAND
6	N	0			(4-5) BROWNISH RED SANDY CLAY
	N	0			(5-6) GRAYISH BROWN SAND
8	Y	0			(6-11) BROWN SANDY CLAY
10					WASTE: PLASTIC, WOOD, WIRE, PAPER
12	Y	0			(11-14) LIGHT BROWN SANDY CLAY
14					WASTE: PLASTIC, WOOD
16	N	0			(14-16) ~~GRAYISH BROWN~~ BROWNISH GRAY CLAYEY SAND
18	N	0			(16-17) LIGHT GRAY SANDY CLAY
20	N	0			(17-20) BROWNISH GRAY SANDY CLAY
					BORING TERMINATED @ 20'
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20
Groundwater Depth: N/A
Samples collected:

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG:

B-11C

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled : 3-2-16
Drilling Conractor : GSX
Drilling Method : HSA

Boring Diameter : 10 in
Sampling Method : N/A
Sampling Interval : N/A
Logged By : AM

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2	N	0			0-3 Moist Brown-tan Silty Clay
4	N	0			3-4 Dry Grey Silty Clay
6	Y	0			3-5 Brown Silty Clay dry
8					5-10 trash Plastic, metal (unstriped), Paper, wood, glass
10	Y				Brown Silty Clay moist
12		0			10-14 Brown Silty Clay Moist
14	N	0			trash: Plastic, Paper
16					14-15 Grey Dry Silty clay
18	N	0			15-~~18~~ 20 Grey Dry Silty Clay
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-12

ATC ASSOCIATES INC.

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/2/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HAKKELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-3) BROWNISH-RED SANDY CLAY WITH MICA
4	N	0			(3-3.5) GRAY SAND WITH MICA
	N	0			(4-4.5) BROWNISH-RED CLAYEY SAND
6					(4.5-5) BROWNISH-RED ~~CLAYEY~~ RH SANDY CLAY WITH GRAVEL
8	N	0			5-9 GRAY CLAYEY SAND
10	N	0			9-11 GRAY SANDY CLAY WITH GRAVEL
12					
14	N	0			11-17 LIGHT BROWNISH GRAY SANDY CLAY
16					17-19 LIGHT GRAY SANDY CLAY - MOIST
18	N	0			
20					19-20 DARK GRAY CLAY - VERY MOIST (ALMOST WET) @ BOTTOM
22					BORING TERMINATED @ 20' bgs
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20'
Groundwater Depth: N/A (~21)
Samples collected: N/A

Additional Notes: N/A

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BORING LOG: B-13

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/2/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HSA + HAND AUGER	Sampling Interval	: Continuous
		Logged By	: R. Hazelton

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			REDDISH-BROWN SANDY CLAY (1-3')
4	N	0			LIGHT BROWN CLAYEY SAND (3-4)
6	N	0			4-8 BROWNISH-RED SANDY CLAY
8					
10	N	0			8-12 MOIST BROWNISH-GRAY CLAYEY SILT ~~MOT~~ RH
12					
14	N	0			12-19 MOIST GRAYISH-BROWN CLAYEY SANDY SILT
16				RH	
18					
19		▽			(19) WET ~~CLAY~~ RH GRAY CLAYEY SANDY SILT
20					BORING TERMINATED @ 19'
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 19
Groundwater Depth: 19
Samples collected: N/A

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG:

B-13A

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/2/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER & HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-2) REDDISH-BROWN SANDY CLAY
4	N	0			(2-3) BROWNISH-GRAY ~~SI~~ RH CLAYEY SAND
6	N	0			(3-7) BROWNISH-RED SANDY CLAY
8	N	0			(7-10) MOIST BROWNISH GRAY CLAY ~~SILTY~~ RH (SOME WOOD @ 8')
10					(10-17 BROWN SANDY CLAY
12	N	0			
14					
16					
18					17-19 " " MOIST
20					19-20 " " MOIST, ROCKS
22					~4-6" DIAMETER (APPEARS TO BE OLD RIVER-BED.
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth:
Groundwater Depth:
Samples collected:

Additional Notes: WOOD @ 8' APPEARED TO BE ROOTS RATHER THAN WASTE

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ATC ASSOCIATES INC.

BORING LOG:

B-13B

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 5/2/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. Hazelton

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			1-2 REDDISH BROWN CLAYEY SAND
4	N	0			2-4 BROWNISH-RED SANDY CLAY WITH MICA
6	Y	0			4-12 GRAYISH-BROWN CLAYEY SAND WASTE: PLASTIC
8					
10					~~12-14~~ RH
12	Y	0			12-14 BROWNISH-RED SANDY CLAY WASTE = PLASTIC, WIRES
14					
16	Y	0			14-~~15~~ 18 RH BROWNISH-GRAY CLAYEY SAND WASTE = WOOD, WIRE
18	N	0			18-20 LIGHT GRAY CLAYEY SAND
20					BORING TERMINATED AT 20'
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

BORING LOG: B-14

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/2/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER / HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. Hanell

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			~~0-1 GRASS, ROOTS, REDDISH-BROWN SANDY CLAY~~
2	N	0			1-2 REDDISH-BROWN SANDY CLAY
	N	0			2-3 BROWNISH-RED CLAY
4	N	0			3-3.5 YELLOW-ORANGE SAND W/ GRAVEL
	N	0			3.5-4.5 BROWNISH-RED CLAY
6	N	0			4.5-6 BROWN CLAYEY SAND WITH MICA
8	N	0			6-9 GRAYISH BROWN SANDY CLAY
10	Y	0			9-14 BROWNISH RED SANDY CLAY WASTE: GLASS, PLASTIC, WOOD, METAL
12					
14	Y	4			14-20 GRAY SANDY CLAY WITH RED SANDY CLAY WASTE: PLASTIC PIECES IN 14-16 NO WASTE SEEN AFTER 16
16	N				
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20
Groundwater Depth: 20
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-15

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER & HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRIS

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			1 - 1.5 BROWN CLAYEY SAND
	N	0			1.5 - 3 BROWNISH RED SANDY CLAY WITH MICA
4	N	0			3 - 3.5 LIGHT BROWN CLAYEY SAND WITH MICA
6	N	0			3.5 - 6 GRAY CLAYEY SAND WITH GRAVEL
8	Y	0			6 - 15 GRAY SANDY CLAY WITH ORGANICS WASTE: PLASTIC, WOOD, METAL, GLASS, STYROFOAM
10					
12					
14	Y				15 - 21 BROWN SANDY CLAY WASTE: PLASTIC, WOOD, GLASS, METAL
16		0			
18					
20					
22	N	0			21-22 GRAY CLAYEY SAND
24	Y	0			22-27 BROWNISH GRAY CLAYEY SAND WASTE: WOOD
26					27-30 REDDISH-ORANGE SAND
28	N	0			
30					BORING TERMINATED AT 30' bgs
32					
34					
36					
38					
40					

Boring Termination Depth: 30'
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes: N/A

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ATC ASSOCIATES INC.

BORING LOG:

B-15A

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER & HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1.5) ASPHALT
2	N	0			(1.5-3) BROWN CLAYEY SAND WITH GRAVEL
4	N	0			(3-6) REDDISH-BROWN ~~BROWNISH-RED~~ RH SANDY CLAY WITH MICA
6	N	0			(6-8) BROWN SANDY CLAY WITH GRAVEL
8	Y	0			(8-10) GRAY SANDY CLAY (MOIST) WASTE: WOOD, PLASTIC, METAL
10					
12					(10-18) GRAYISH-BROWN SANDY CLAY (MOIST) WASTE: PLASTIC, WOOD
14	Y	0			
16					
18					(18-23) ~~GRAYISH~~ RH BROWNISH-GRAY CLAYEY SAND (MOIST) WASTE: PLASTIC
20	Y	0			
22					
24	N	0			23-25 MOIST LIGHT GRAY CLAYEY SAND
26					BORING TERMINATED @ 25'
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth:
Groundwater Depth:
Samples collected:

Additional Notes:

BORING LOG:

B-15B

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 3/3/16	Boring Diameter : 10"	
	Drilling Conractor : GES	Sampling Method : N/A	
	Drilling Method : HAND AUGER + HSA	Sampling Interval : CONTINUOUS	
		Logged By : R. HARRELL	

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-1.5) REDDISH-BROWN CLAYEY SAND (1.5-2.5) GRAYISH-BROWN SAND (2.5-4) ~~REDDISH-BROWN~~ REDDISH-BROWN CLAYEY SAND
4					
6	N	0			(4-5) GRAY SANDY CLAY (5-7) BLACK CLAYEY SAND WITH ORGANICS
8					
10	N	0			(7-13) GRAYISH BROWN SANDY CLAY SOME WOOD-APPEARS TO BE ROOTS (RECENTLY LIVE)
12					
14					(13-19) BROWN SANDY CLAY (MOIST)
16	N	0			
18					
20	N	0			MOIST BROWNISH-GRAY SANDY CLAY BORING TERMINATED AT 20'
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth: 20
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

BORING LOG:

B-15C

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-2) BROWN CLAYEY SAND WITH GRAVEL
4	N	0			(2-4.5) BROWNISH RED SANDY CLAY WITH MICA
6					(4.5-6) GRAYISH BROWN CLAYEY SAND WITH MICA WITH GRAVEL
8					REFUSAL AT 6'
10					
12					
14					
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 6'
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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BORING LOG:

B-15D

Site: Old Raleigh #9 Landfill

Date(s) Drilled	: 3/3/16	Boring Diameter	: 10"
Drilling Conractor	: GES	Sampling Method	: N/A
Drilling Method	: HAND AUGER + HSA	Sampling Interval	: CONTINUOUS
		Logged By	: R. HARRELL

Well:
Elev.:

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0	N	0			(0-1) ASPHALT
2	N	0			(1-2) BROWN CLAYEY SAND WITH GRAVEL
4	N	0			(2-4.5) BROWNISH-RED SANDY CLAY WITH MICA
6	N	0			(4.5-6) GRAYISH BROWN CLAYEY SAND WITH MICA
8	N	0			(6-8) BROWNISH-RED SANDY CLAY
10	Y	25			(8-9) REDDISH-BROWN SANDY CLAY WASTE: PLASTIC, RUBBER, METAL, WOOD
12	Y	27			(9-12) BLACK CLAYEY SAND WITH ORGANICS AND GRAVEL WASTE: PLASTIC, CLOTH, WOOD
14	N	32			(12-15) GRAY CLAYEY SAND
16					
18	Y	35			(15-20) GRAY CLAYEY SAND WASTE: PLASTIC, STYROFOAM, WIRES
20					
22	Y	27			(20-23) BROWNISH GRAY CLAYEY SAND WASTE: PLASTIC
24	N	12			(23-25) GRAY SILTY SAND
26					BORING TERMINATED @ 25'
28					
30					
32					
34					
36					
38					
40					

Boring Termination Depth:
Groundwater Depth:
Samples collected:

Additional Notes:

ATC ASSOCIATES INC.

BORING LOG: ~~B-15~~ B-15E

(Page 1 of 1)

Site:			
Old Raleigh #9 Landfill	Date(s) Drilled : 3-2-16	Boring Diameter : 10 in	
	Drilling Conractor : GSX	Sampling Method : ~~HSA~~ N/A	
	Drilling Method : HSA	Sampling Interval : N/A	
		Logged By : A. McMillan	

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION
0					
2	N	0			0-0.5 Asphalt/Pavement
4	N	0			0.5-3 Silty Clay moist red
6					3-3.5 Clayey Silt w/ rock tan dry
8	N	0			3.5-5 red Clay Moist
10					5-10 tannish grey Silty Clay very Moist
12					10-15 moist tan Clayey Silt
14	N	0			
16					
18					
20					
22					
24					
26					
28					
30					
32					
34					
36					
38					
40					

Well:
Elev.:

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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ATC ASSOCIATES INC.

BORING LOG: B16

(Page 1 of 1)

Site: Old Raleigh #9 Landfill

Date(s) Drilled : 3-2-16
Drilling Conractor : GSX
Drilling Method : HSA

Boring Diameter : 10 in
Sampling Method : N/A
Sampling Interval : N/A
Logged By : [illegible]

Depth in Feet	Waste (Y or N)	LEL (Methane)	VOCs (ppm)	USCS	DESCRIPTION	Well: Elev.:
0					0-1 Asphalt	
2	N	C			0-5 Dry tan Clayey Silt	
4					5-7 Red dry Clayey Silt	
6	N	C			1 in x ½ in red plastic (electrical tape) Possible from fill	
8						
10					7-8 red dry clayey silt	
12	N	C			8-10 moist to very moist Brown Silty clay	
14						
16					10-15 Very mois Brown Silty Clay	
18						
20						
22						
24						
26						
28						
30						
32						
34						
36						
38						
40						

Boring Termination Depth: 15
Groundwater Depth: N/A
Samples collected: N/A

Additional Notes:

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APPENDIX D

CERTIFICATION

CERTIFICATION

Remedial Investigation – Waste Delineation
Task Order 5903DP-2
Old Raleigh #9 – Howard Johnson Crabtree Landfill
4100 Glenwood Avenue
Raleigh, Wake County, North Carolina
ID No. NCD980845903
State Contract No. N13003S

I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete.

Justin C. Ballard, P.G.
Project Manager

NORTH CAROLINA LICENSED SEAL 2257 GEOLOGIST JUSTIN C. BALLARD

Signature *Date* 6/9/2016

Before me personally appeared Justin C. Ballard to me known and known to me to be the person described in and who executed the foregoing instrument, and acknowledge to and before me that Justin C. Ballard executed said instrument for the purposes therein expressed.

Witness my hand and official seal this 9th day of June, 2016.

Irene A Byers
Notary Public

August 27, 2017
My Commission Expires On

North Carolina
State Of

Wake
County Of

IRENE A BYERS
NOTARY PUBLIC
WAKE COUNTY
STATE OF NORTH CAROLINA

Official Seal