January 22, 2014

North Carolina Department of Environment and Natural Resources
Division of Waste Management – Inactive Hazardous Sites Branch
Pre-Regulatory Landfill Unit
Green Square Complex
DENR Office Building
217 West Jones Street
Raleigh, North Carolina 27603

Attention: Mr. Zi-Qiang Chen, PhD email: zi-qiang.chen@ncdenr.gov
Environmental Engineer

Reference: **Remedial Investigation Report – Sampling and Analysis of Soils/Waste along the Perimeter of the Landfill and Groundwater Monitoring**
Spring Hope Dump
South Walnut St., Spring Hope, Nash County, North Carolina 27882
Task Order 452DP-6
ID No. NONCD0000452

Dear Chen:

S&ME, Inc. (S&ME) is submitting this report to the North Carolina Department of Environment and Natural Resources (NCDENR), Pre-Regulatory Landfill Unit (Unit) summarizing the results of the remedial investigation delineation Phase activities conducted at the above-referenced site in Spring Hope, North Carolina. S&ME completed this investigation in general conformance with our proposal dated September 17, 2013 for Task Orders 452DP-5 and 6 under State contract N10003S.

The attached report includes the results of the following tasks requested by the Unit:

- Soil Boring Installation;
- Temporary monitor well installations;
- Field soil screening and analysis;
- Handling of investigative derived waste; and
- Soil/waste and groundwater sampling.

Please call us with any questions or comments.

Sincerely,
S&ME, Inc.

Gerald Paul
Project Manager

Tom Raymond, PE, PMP
Program Manager

Attachment: Remedial Investigation Report – Sampling and Analysis of Soils/Waste along the Perimeter of the Landfill and Groundwater Monitoring

REMEDIAL INVESTIGATION REPORT – SAMPLING AND ANALYSIS OF SOILS/WASTE ALONG THE PERIMETER OF THE LANDFILL AND GROUNDWATER MONITORING
SPRING HOPE DUMP
SOUTH WALNUT STREET
SPRING HOPE, NASH COUNTY, NORTH CAROLINA

ID No. NONCD0000452
State of North Carolina Contract No. N10003S
NCDENR Task Order 452DP-6

Prepared for:
North Carolina Department of Environment and Natural Resources
Superfund Section
Inactive Hazardous Sites Branch
Green Square Complex
DENR Office Building
217 West Jones Street
Raleigh, North Carolina 27603

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January 22, 2014

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CURRENT INVESTIGATION

S&ME completed the following Scope of Services for this investigation in general conformance with our proposal dated September 17, 2013 for approved Task Orders 452DP-5 and 6 under State contract N10003S:

- Installed seven soil borings (SB-1 through SB-7);
- Converted four soil borings to temporary monitor wells (SB-2/TMW-2, SB-3/TMW-3, SB-5/TMW-5 and SB-7/TMW-7). TMW-7 replaced the proposed sample location for TMW-8 due to its location in the Meeks Cemetery;
- Installed one temporary groundwater monitor well within the waste disposal unit (TMW-1);
- Collected Soil/Waste samples for laboratory analysis;
- Field screened soil/waste samples;
- Gauged depth to groundwater and sampled groundwater from five temporary monitor wells (TMW-1 through TMW-3, TMW-5 and TMW-7);
- Collected groundwater samples from five temporary groundwater monitoring locations (TMW-1 through TMW-3, TMW-5 and TMW-7);
- Subcontracted the analyses of soil/waste (solid media), groundwater and quality control samples for selected analytical parameters;
- Subcontracted licensed surveying services to survey top of casing elevations; and,
- Prepared this report.

The approximate coordinates of site features are identified on **Appendix I** with the sample locations shown on **Figure 1.**

Investigation Goals: This investigation was designed to:

- Sample and analyze soils/wastes (solid media) at the landfill site, and to conduct groundwater monitoring.

All services were performed in general accordance with NCDENR Inactive Hazardous Sites Program guidance documents: *Guidelines for Assessment and Cleanup* (April 2013), and *Guidelines for Addressing Pre-Regulatory Landfills & Dumps* (December 2013).

1. SOIL BORINGS & TEMPORARY MONITOR WELLS

1.1 Installation of Soil Borings

S&ME's private utility locating subcontractor mobilized to the site prior to installation of the soil borings to clear the soil boring locations of subsurface utilities. Aboveground and underground electrical lines were located near the entrance to the facility near of the proposed location of soil borings SB-6. No utilities were identified in or around the landfill or surrounding side slopes.

S&ME's drill crew, Geoprobe® unit and sampling team installed the five soil borings between October 3rd and 4th, 2013 to screen and collect soil samples for laboratory analysis. Two of the proposed sample locations (SB-2 and SB-4) were inaccessible to the Geoprobe®. At those locations, S&ME personnel used a decontaminated stainless steel hand auger to collect soil samples above the water table and to install the temporary monitor well at the proposed location of TMW-2 along the base of the steep side slopes of the landfill. S&ME completed a total of two soil borings using the hand auger, bringing the total number of soil borings to seven.

S&ME's drill crew utilized 4 ¼" Hollow stem augers to collect soil samples at predetermined depths with the intention of collecting soil samples from the upper, middle and bottom portions of each boring core. In general, samples were collected from 1-2 ft-bgs, from 5-6 ft-bgs, and from 9-10, with the exception of SB-2 and SB-4 that were located along the base of the landfill, just above the water table. Soil samples from each boring were continuously screened in the field for visual or olfactory indications of contamination. Soils were continuously logged from the cuttings and were classified according to the Unified Soil Classification System (USCS). Soil boring locations were staked with wooden stakes, where possible, to be located by a licensed surveyor upon project completion.

Typical soils encountered throughout this investigation included sandy and clayey silts and clayey sands. The undisturbed or naturally occurring soils observed during this investigation typically consist of dark brown to orange clayey silt.

Samples were shipped under standard chain-of-custody procedures to a North Carolina certified laboratory (Environmental Conservation Laboratories, Inc.) for analysis of the following parameters; volatile organic compounds (SW-846/8260B), semi-volatile organic compounds (SW-846 Method 8270D), total metals (SW-846 Methods), ammonia (350.1), nitrate and sulfate (SW-846 Method 9056). The top ten chromatogram peaks (if detected with a quality factor of greater than 85%) of TICs were also included in the VOC and SVOC analyses.

S&ME used a hand held Trimble GPS unit to acquire coordinates of the sampling locations, which are included in **Appendix I**. Soil boring information is presented in **Appendix II** and the boring locations are shown in **Figure 1**. Field notes are included in **Appendix III**.

1.2 Installation of Temporary Monitor Wells

S&ME's drill crew, Geoprobe® unit (7730 DT) and sampling team installed five temporary monitoring wells between October 3rd and 4th, 2013. The temporary monitoring wells were advanced using a track-mounted Geoprobe® using 4 ¼" diameter hollow stem augers until groundwater was encountered. The temporary monitor wells were constructed at five locations with varying lengths of one-inch diameter PVC screens (ranging from one to 15 feet) in order to intersect the water table at each sample location. Nominal one-inch diameter PVC casing was installed from the screen depth to above the ground surface. Two of the temporary monitor wells (TMW-2 and TMW-8) were off-set from the proposed locations due to inaccessibility. The proposed location of TWM-2 was

offset approximately 50' northwest of the proposed location due to the steep slope along the northeastern portion of the landfill and unstable terrain. The proposed location for TMW-8 was to be located near the middle of the Meeks Cemetery. S&ME field personnel contacted Mr. Zi-Qiang Chen with the North Carolina Department of Environment and Natural Resources (NCDENR) Inactive Hazardous Sites Branch (IHSB) about the proposed location of TMW-8 and were directed to re-locate the proposed temporary monitor well to the location of SB-7 and designate the temporary monitor well as TMW-7.

Upon completion of the temporary monitor wells, S&ME subcontracted a licensed North Carolina surveyor (Bateman Civil Surveying) to record the horizontal locations, top of casing elevations and ground surface elevations of the temporary monitor wells. The coordinates for the temporary wells are presented in **Appendix I**. The survey elevations and temporary monitor well construction details are presented in **Table 1** and **Appendix II and III**. The monitor well locations are indicated on **Figure 1**. Copies of the field notes are located in **Appendix III**.

1.3 Soil/Waste Sampling Results

The laboratory analytical results of the soil samples collected on October 3 and 4, 2013 indicated that the following Constituents of Concern (COCs) were detected at concentrations greater than the IHSB - Preliminary Soil Remediation Goals, Protection of Groundwater (PSRGs):

- Benzo (a) anthracene in SB-1 (1-2');
- Benzo (a) pyrene in SB-1 (1-2'), SB-2 (1-2'), SB-3 (1-2') and SB-4 (1-2');
- Benzo (b) fluoranthene in SB-1 (1-2'), SB-2 (1-2') and SB-4 (1-2');
- Indeno(1,2,3-cd)pyrene in SB-1 (1-2');
- Arsenic (by Method 6010C) in SB-1 (1-2'), SB-3 (1-2'), SB-3 (9-10'), SB-4 (1-2'), SB-5 (1-2'), SB-5 (9-10'), SB-6 (1-2'), SB-6 (5-6'), SB-6 (9-10'), SB-7 (1-2'), SB-7 (5-6'), SB-7 (9-10') and in SB-DUP-1(SB-7 (1-2));
- Manganese (by Method 6010C) in SB-1 (1-2'), SB-2 (1-2'), SB-3 (9-10'), SB-4 (1-2'), SB-5 (1-2') and SB-7 (9-10');
- Iron (by Method 6010C) in all of the soil samples collected from the site;
- Lead (by Method 6010C) in SB-1(1-2');
- Thallium (by Method 6010C) SB-1 (1-2'), SB-1 (9-10'), SB-3 (1-2'), DUP 2 (SB-3 (1-2')), SB-5 (9-10'), SB-6 (1-2'), SB-7 (1-2'), SB-7 (5-6') and SB-7 (9-10') and in SB-DUP-1(SB-7 (1-2));
- Arsenic (by Method 6020A) in SB-3 (9-10'), SB-5 (9-10'), SB-6 (1-2') and SB-7 (5-6');
- Iron (by Method 6020A) in all of the soil samples collected from the site;
- Lead (by Method 6020A) in SB-1(1-2'); and,
- Manganese (by Method 6020A) in SB-1 (1-2'), SB-4 (1-2'), SB-5 (9-10') SB-7 (5-6') and SB-7 (9-10').

In an attempt to achieve lower method detection limits, ENCO re-analyzed the soil/waste samples for metals by EPA Method 6010C following the receipt of the initial sample

results (by EPA Method 6020A) that indicated that several constituents were reported as below the laboratory method detection limits, but the detection limits were greater than the applicable PSRG. As such, several of these constituents (metals) may be reported with multiple concentrations due to the variability of the dilutions associated with each method. In addition, several other constituents were detected above the laboratory method detection limits, but below the PSRGs in all of the samples collected from the site.

Tentatively Identified Compounds (TICs)

The following soil sample was reported with TICs for VOCs:

- SB-3 (1-2') had 4 VOC TICs reported;
- DUP-2 (SB-3 (1-2')) had 5 VOC TICs reported;
- SB-3 (5-6') had 7 VOC TICs reported;
- SB-4 (1-2') had 2 VOC TICs reported;
- SB-DUP-1 (SB-7 (1-2')) had 2 VOC TICs reported;
- SB-7 (5-6') had 1 VOC TIC reported;
- SB-7 (9-10') had 3 VOC TICs reported;

No TICs for VOCs were reported in any of the other record samples.

The following soil samples were reported with TICs for SVOCs:

- SB-1 (1-2') had 6 SVOC TICs reported;
- SB-1 (5-6') had 2 SVOC TICs reported;
- SB-1 (9-10') had 3 SVOC TICs reported;
- SB-2 (1-2') had 5 SVOC TICs reported;
- SB-3 (1-2') had 7 SVOC TICs reported;
- DUP 2 (SB-3 (1-2')) had 3 SVOC TICs reported;
- SB-3 (5-6') had 3 SVOC TICs reported;
- SB-3 (9-10') had 3 SVOC TICs reported;
- SB-4 (1-2') had 5 SVOC TICs reported;
- SB-5 (1-2') had 6 SVOC TICs reported;
- SB-5 (6-7') had 3 SVOC TICs reported;
- SB-5 (9-10') had 3 SVOC TICs reported;
- SB-6 (1-2') had 3 SVOC TICs reported;
- SB-6 (5-6') had 2 SVOC TICs reported;
- SB-6 (9-10') had 2 SVOC TICs reported;
- SB-7 (1-2') had 4 SVOC TICs reported;
- SB DUP-1 (SB-4 (1-2')) had 6 SVOC TICs reported;
- SB-7 (5-6’) had 4 SVOC TICs reported;
- SB-7 (9-10') had 4 SVOC TICs reported.

Soil boring logs are presented in **Appendix II** and the boring sample locations are shown in **Figure 1 & 2** with constituent detections indicated on **Figure 2**. Field notes are included in **Appendix III**. A summary of soil analytical results, associated TICs and a comparison to NCDENR’s regulatory standards is included on **Table 2.** The laboratory analytical reports are included in **Appendix IV**.

1.4 Groundwater Gauging, Sampling and Analysis

On October 11th, 2013, S&ME field personnel gauged, purged and sampled five temporary monitor wells (TMW-1, TMW-2, TMW-3, TMW-5 and TMW-7). The depth to groundwater measurements ranged from 1.91 ft. bgs at TMW-2 to 7.34 ft. bgs at TWM-7. A groundwater contour map (**Figure 3**) was generated using the groundwater elevation data collected from the five temporary monitor wells on October 11th, 2013. Based upon the groundwater potentiometric surface elevations, the groundwater flow direction was estimated to be to the North-northwest towards TMW-2, TMW-3 and the Hendricks Creek which borders the landfill disposal unit to the west and north. The depth-to-groundwater measurements and elevations for the temporary monitor wells are presented in **Table 1**. The groundwater purging data is presented in **Table 3**.

The temporary monitor wells at the Spring Hope Dump were sampled in accordance with S&ME's *Standard Operating Procedures and Quality Assurance Manual* dated July, 2010. Field notes from the groundwater sampling event are included in **Appendix III.**

The groundwater samples from TMW-1 through TMW-3, TMW-5 and TMW-7 were collected using a peristaltic pump with silicon tubing. The groundwater samples were sent under proper chain-of-custody procedures to ENCO for analyses of volatile organic compounds by SW-846 method 8260B, semi-volatile organic compounds by SW-846 method 8270D, for 14 metals by SW-846 method 6020A, for mercury by method 7471, for ammonia by Method 350.1, nitrate by EPA Method 353.2 and sulfate by EPA Method 300.0. The top ten chromatogram peaks (if detected) were also included in the VOC and SVOC analyses.

1.5 Groundwater Sampling Results

The laboratory analytical results of the groundwater samples collected on October 11, 2013 indicated that the following Constituents of Concern (COCs) were detected at concentrations greater than the NCAC 2L Standards:

- Iron in TMW-1 and TMW-2;
- Manganese in all temporary monitor wells (TMW-1, TMW-2, TMW-3, TMW-5 and TMW-7). and,
- Ammonia nitrogen in TMW-1.

Several other constituents were detected above the laboratory method detection limits, but below the 2L Standards in temporary monitoring wells (TMW-1, TMW-2, TMW-3, TMW-5 and TMW-7).

<u>Tentatively Identified Compounds (TICs)</u>

No TICs for VOCs were reported in any of the record samples.

The following groundwater samples were reported with TICs for SVOCs:

- TMW-1 had 4 TICs reported;
- TMW-3 had 1 TICs reported; and,
- TMW-5 had 2 TICs reported.

A summary of groundwater analytical results (including TICS) and a comparison to NCDENR's regulatory standards is included on **Table 4**. The groundwater constituent concentrations are presented on **Figure 4**. A copy of the laboratory analytical results, chain-of-custody forms and TIC Reports are included in **Appendix IV**.

1.6 Soil Boring and Temporary Monitor Well Abandonments

Upon completion of the groundwater investigation sampling, the five temporary monitor wells (TMW-1, TMW-2, TMW-3, TMW-5 and TMW-7) were abandoned by removing the PVC well materials and filling the borings with bentonite and soil. The PVC well materials were taken off-site for proper disposal. The temporary well abandonments were completed following sampling of the temporary groundwater monitor wells on October 11, 2013.

2. QUALITY CONTROL

Quality control samples were collected and analyzed as follows:

- Duplicates: one blind duplicate sample was collected for each media (soil/waste and groundwater) for each day of media sampling. The blind duplicate samples were analyzed for the same parameter list as the record samples: VOCs with TICs, SVOCs with TICs, 15 metals, ammonia, sulfate and nitrate for the soil/waste and groundwater samples.
- Equipment Blanks: One equipment blank water sample was collected in conjunction with the groundwater sampling event. Deionized water, provided from the laboratory, was used to pour through clean unused sampling equipment and tools. The equipment blank water sample was collected and analyzed for the same parameters listed above. No equipment blanks were collected following the collection of soil/waste samples as they were collected with dedicated Teflon liners.
- Trip Blanks: One trip blank water sample was used for each sampling cooler in conjunction with each day of sampling. The laboratory included trip blank VOC vials (filled with water at the laboratory) with the sample jars and coolers shipped to S&ME. The trip blank samples were kept with the sample coolers for the entire trip; from the laboratory, to the field, and back to the laboratory. The trip blank samples were analyzed for VOCs. No VOCs were detected in any of the trip blank samples.
- The laboratories conducted USEPA quality assurance and quality control procedures and reporting as required for laboratory analysis according to USEPA Level II Protocols. All reported laboratory analytical data met data quality objectives.

The equipment-blank water sample collected on October 11, 2013, during the collection of groundwater samples had detections of copper, manganese, nickel and zinc. The equipment-blank detections of copper 0.140 micrograms per liter (µg/L), of manganese at 0.471 µg/L, of nickel at 0.157 µg/L, and zinc at 1.51 µg/L are slightly above the laboratory detection limits, and well below the NCDENR 2L Groundwater Standards of 1,000 µg/L, 50 µg/L, 100 µg/L and 1,000 µg/L respectively. Several water samples collected on October 11, 2013 were reported with several metals copper, manganese, nickel and zinc. It is unlikely that the sampling protocols have affected the results for groundwater samples collected on October 11, 2013. No other constituent were detected in any of the other quality control samples collected at the site. It is important to note that all of the metals detections in the equipment blank sample were reported with "J" flag laboratory qualifiers. A "J" flag laboratory qualifier is an estimated value indicating that a constituent was present at a concentration above the method detection limit but below the laboratory method reporting limit.

The equipment-blank water sample collected on, did not indicate the presence of concentrations of any compounds above the laboratory method detection limits (Groundwater).

The laboratory supplied trip blank water samples did not indicate the presence of concentrations of any compounds above the laboratory method detection limits (groundwater, soil/waste). It should be noted that the trip blank sample that accompanied the groundwater samples was received by the laboratory, but was inadvertently placed in the laboratory ice disposal area. The mistake was not noticed by the lab until the sample was out of range for the sample temperature. The sample was analyzed and did not indicate the presence of concentrations of any compounds above the laboratory method detection limits (Groundwater).

3. INVESTIGATIVE DERIVED WASTE

Investigative derived wastes (IDW), such as soil cuttings generated during the soil boring advancement were placed back into the borings as no indications of contamination were noted.

4. SOLE USE STATEMENT

This report is solely intended for use by the NCDENR for the services that were performed in accordance with S&ME's Proposal, dated September 17, 2013 as authorized by NCDENR Task Order 452DP-5, dated September 26, 2013. Use of this report is limited to above-referenced project and NCDENR. Use of this report for other purposes or by other parties is at the sole risk of the user.

5. CERTIFICATION STATEMENT

"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."

Thomas P. Raymond, P.E. / S&ME, Inc.
Name of Environmental Consultant / Company

Signature of Environmental Consultant

Jan. 22, 2014
Date

I, Kellie Ann Ford, a Notary Public of said County and State, do hereby certify that Thomas P. Raymond did personally appear and sign before me this day, produced proper identification in the form of Known person, was duly sworn or affirmed, and declared that, he or she is the duly authorized environmental consultant referenced above and that, to the best of his or her knowledge and belief, after thorough investigation, the information contained in the above certification is true and accurate, and he or she then signed this Certification in my presence.

WITNESS my hand and official seal this 22 day of January, 2014.

(OFFICIAL SEAL)

Notary Public (signature)

KELLIE ANN FORD NOTARY *** PUBLIC WAKE COUNTY, N.C.

My commission expires: 1/6/2015.

Tables

Table 1
Temporary Monitor Well Construction Details and Groundwater Elevations
Spring Hope Dump
NC 581 Spring Hope, NC
ID No. NONCD0000452
Task Order No. 452DP-6

Well ID	Date Installed	Total Well Depth from Top of Casing (Ft)	PVC Casing Stick-Up Length (Ft-ags)	Screen Length (Ft)	Screen Interval (Ft-bgs)	PVC Casing Length (Ft)	PVC Casing Interval (Ft)	Sand(#2 Filter Sand) (Ft-bgs)	Bentonite (Ft-bgs)	Top of Casing Elevation (Ft.)	Date Groundwater Level Measured	Depth to Groundwater (Ft.-BTOC)	Depth to Groundwater (Ft.-BTOC)	Groundwater Elevation (Ft.)
TMW-1	10/3/2013	17.95	2.95	10.00	5.00-15.00	7.95	+2.95-5.00	3.00-15.00	3.00-2.00	235.58	10/11/2013	10.27	7.32	225.31
TMW-2	10/4/2013	7.45	2.45	1.00	4.00-5.00	5.45	+2.45-4.00	0.50-5.00	0.00-0.50	227.55	10/11/2013	4.36	1.91	223.19
TMW-3	10/4/2013	17.45	2.45	13.00	2.00-15.00	4.45	+2.45-2.00	1.00-15.00	0.50-1.00	228.22	10/11/2013	4.40	1.95	223.82
TMW-5	10/4/2013	17.45	2.45	13.00	2.00-15.00	4.45	+2.45-2.00	1.00-15.00	0.50-1.00	229.60	10/11/2013	4.71	2.26	224.89
TMW-7	10/3/2013	23.15	3.15	15.00	5.00-20.00	8.15	+3.15-5.00	3.00-20.00	3.00-2.00	237.25	10/11/2013	10.49	7.34	226.76

Notes:
All Temporary Monitor Wells were installed with PVC material, nominal 1-inch diameter screens and casings.
Ft-BTOC = feet below top of casing
Ft-ags = feet above ground surface.
Ft-bgs = feet below ground surface.
NA = Not Applicable.
See **Figures 1, 2, 3 & 4** for temporary monitor well locations, with sample locations indicated on **Figure 4**.
The temporary monitor wells were removed on October11, 2013.

Table 2
Soil Sampling Analytical Results
Spring Hope Dump
NC 581 Spring Hope, North Carolina
ID No. NONCD0000452
Task Order No. 452DP-6

Method	Sample ID	SB-1 (1-2)	SB-1 (5-6)	SB-1 (9-10)	SB-2 (1-2)	SB-3 (1-2)	Dup 2 (SB-3 at 1-2)	SB-3 (5-6)	SB-3 (9-10)	SB-4 (1-2)	SB-5 (1-2)	SB-5 (6-7)	SB-5 (9-10)	SB-6 (1-2)	SB-6 (5-6)	SB-6 (9-10)	SB-7 (1-2)	SB-DUP-1 (SB-7 (1-2))	SB-7 (5-6)	SB-7 (9-10)	Preliminary Residential Health-Based PSRG	Protection of Groundwater PSRG
	Sample Depth	**1-2**	**5-6**	**9-10**	**1-2**	**1-2**	**1-2**	**5-6**	**9-10**	**1-2**	**1-2**	**6-7**	**9-10**	**1-2**	**5-6**	**9-10**	**1-2**	**1-2**	**5-6**	**9-10**		
	Date Collected>>	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**	**10/3/13**		
	Parameter																					
EPA 9056A	**Nitrate as N**	ND	ND	3.4 J	2.5 J	2.3 J	2.0 J	2.2 J	2.7 J	7.5 J	1.8 J	2.4 J	2.2 J	ND	ND	ND	ND	ND	ND	ND	**26,000**	**NE**
	Sulfate as SO4	130	ND	ND	51	58 J	ND	ND	ND	ND	28 J	ND	ND	65	57 J	ND	ND	80	ND	53 J	**NE**	**NE**
EPA 350.1	**Ammonia as N**	16	35 D	11	1.2	7.5	5.9	2.5	ND	1.5	1.7	ND	ND	1.2 J	ND	ND	0.61 J	0.74 J	ND	ND	**NE**	**NE**
EPA 8260B	**2-Butanone**	0.0080	0.013	0.0019 J	ND	0.21	0.30	0.021	ND	ND	ND	ND	ND	ND	ND	ND	0.0070	0.036	ND	ND	**5,600**	**16**
	4-Methyl-2-pentanone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1,100**	**0.43**
	Acetone	0.052	0.076	0.013	ND	0.26	0.40	0.026	ND	0.0072 J	ND	ND	ND	ND	ND	ND	0.13	1.1 E	ND	ND	**12,000**	**24**
	Carbon disulfide	ND	0.0005 J	0.0008 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**160**	**3.8**
	Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0012	ND	0.0006 J	ND	**0.29**	**0.34**
	Toluene	ND	ND	ND	ND	0.018	0.015	0.0027	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**820**	**5.5**
VOCs TICs by EPA 8260B	**.alpha.-Pinene**	ND	ND	ND	ND	0.0039 JN	ND	0.039 JN	ND	ND	ND	ND	ND	ND	ND	ND	0.0094 JN	ND	ND	ND	**NE**	**NE**
	.beta.-Pinene	ND	ND	ND	ND	ND	ND	0.045 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	1R-.alpha.-Pinene	ND	ND	ND	ND	ND	0.017 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0090 JN	0.021 JN	0.061 JN	**NE**	**NE**
	3-Carene	ND	ND	ND	ND	0.0072 JN	0.019 JN	0.045 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	Bicyclo[2.2.1]heptane, 7,7-...	ND	ND	ND	ND	0.0070 JN	0.016 JN	0.022 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	Bicyclo[3.1.1]heptane, 6,6-...	ND	ND	ND	ND	0.0048 JN	0.022 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	Camphene	ND	ND	ND	ND	ND	ND	0.0065 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0023 J	**NE**	**NE**
	Cyclohexene, 1-methyl-4-(1-...	ND	ND	ND	ND	ND	0.0030 JN	0.0021 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	Dimethyl sulfide	ND	ND	ND	ND	ND	ND	ND	ND	0.022 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	Disulfide, dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	0.0055 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	D-Limonene	ND	ND	ND	ND	ND	ND	0.0091 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	.gamma.-Sitosterol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3 JN	ND	0.34 JN	**NE**	**NE**
SVOCs by EPA 8270D	**3 & 4-Methylphenol**	ND	ND	ND	ND	0.28 J	0.25 J	0.21 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**NE**
	3,3'-Dichlorobenzidine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.1**	**NE**
	Benzo(a)anthracene	**0.33 J**	ND	ND	0.10 J	0.055 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.15**	**0.18**
	Benzo(a)pyrene	**0.40 J**	ND	ND	**0.12 J**	**0.060 J**	ND	ND	ND	**0.12 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.015**	**0.059**
	Benzo(b)fluoranthene	**0.50**	ND	ND	**0.19 J**	0.11 J	ND	ND	ND	**0.18 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.15**	**0.6**
	Benzo(g,h,i)perylene	0.17 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**7,800**
	Benzo(k)fluoranthene	0.21 J	ND	ND	0.073 J	0.058 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**1.5**	**5.9**
	Bis(2-ethylhexyl)phthalate	ND	ND	ND	0.29 J	ND	ND	ND	ND	0.13 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**35**	**7.2**
	Carbazole	0.047 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**0.37**
	Chrysene	0.37 J	ND	ND	0.12 J	0.10 J	ND	ND	ND	0.12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**150**	**180**
	Fluoranthene	0.66	ND	ND	0.22 J	0.22 J	ND	ND	ND	0.12 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**460**	**330**
	Fluorene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**460**	**56**
	Indeno(1,2,3-cd)pyrene	**0.17 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.15**	**2**
	Phenanthrene	0.25 J	ND	ND	0.15 J	0.19 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**NE**	**68**
	Pyrene	0.57	ND	ND	0.17 J	0.18 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**340**	**220**

Notes:
Soil concentrations are reported in milligrams per kilogram (mg/kg), unless otherwise noted.
Analytes that are not shown for the method were not detected.
NE: Regulatory standard not established for contaminant
ND: Not detected.
B: Compound was detected in the method blank and in the record sample.
PSRG 1 - Preliminary Residential Soil Remediation Goal, Health Based, July 2013.
PSRG 2 - Preliminary Soil remediation Goals, Protection of Groundwater, July 2013.
Concentrations exceeding a IHSB PSRG goals are shown in **BOLD** fields.
See **Figures 1 & 2** for sample locations, with sample results indicated on **Figure 2**.

TIC Notes:
TICs: Tentatively Identified Compounds
N: Laboratory Qualifier. Presumptive evidence of material.
J: Laboratory Qualifier. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D: The sample was analyzed at a dilution. The sample specific dilution factor is indicated in the laboratory report.

Table 2
Soil Sampling Analytical Results
Spring Hope Dump
NC 581 Spring Hope, North Carolina
ID No. NONCD0000452
Task Order No. 452DP-6

Method	Sample ID	SB-1 (1-2)	SB-1 (5-6)	SB-1 (9-10)	SB-2 (1-2)	SB-3 (1-2)	Dup 2 (SB-3 (1-2))	SB-3 (5-6)	SB-3 (9-10)	SB-4 (1-2)	SB-5 (1-2)	SB-5 (6-7)	SB-5 (9-10)	SB-6 (1-2)	SB-6 (5-6)	SB-6 (9-10)	SB-7 (1-2)	SB-DUP-1 (SB-7 (1-2))	SB-7 (5-6)	SB-7 (9-10)	Preliminary Residential Health-Based PSRG	Protection of Groundwater PSRG
	Sample Depth	1-2	5-6	9-10	1-2	1-2	1-2	5-6	9-10	1-2	1-2	6-7	9-10	1-2	5-6	9-10	1-2	1-2	5-6	9-10		
	Date Collected>>	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13	10/3/13		
	Parameter																					
SVOCs TICs by EPA 8270D	1-Docosene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.72 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	1-Nonadecene	ND	0.72 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	1-Phenanthrenecarboxylic ac...	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.24 JN	0.57 JN	0.23 JN	ND	NE	NE
	3-Eicosene, (E)-	ND	ND	ND	ND	0.20 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	9-Octadecenamide, (Z)-	ND	ND	ND	ND	ND	ND	ND	ND	1.0 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	5-Cholestene-3-ol, 24-methyl-	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.36 JN	ND	ND	NE	NE
	5-Eicosene, (E)-	ND	0.35 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Benzo[e]pyrene	0.38 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Cyclohexene	ND	ND	ND	ND	0.21 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Docosane	ND	ND	ND	0.74 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Eicosane	ND	ND	ND	0.22 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Eicosane, 10-methyl-	0.23 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Erucylamide	ND	ND	0.61 JN	ND	0.76 JN	ND	0.18 JN	1.4 JN	ND	0.39 JN	1.7 JN	1.3 JN	2.8 JN	ND	ND	0.55 JN	ND	0.53 JN	ND	NE	NE
	Heneicosane	ND	ND	ND	ND	0.35 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Hentriacontane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.35 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Heptadecane, 2,6,10,15-tetr...	ND	ND	ND	0.47 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Hexadecane	ND	ND	ND	ND	ND	ND	ND	ND	1.3 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.20 JN	NE	NE
	n-Hexadecanoic acid	ND	ND	0.38 JN	0.66 JN	0.90 JN	0.85 JN	0.46 JN	0.70 JN	0.53 JN	0.32 JN	0.66 JN	0.22 JN	0.25 JN	0.29 JN	0.23 JN	0.21 JN	0.53 JN	0.26 JN	1.2 JN	NE	NE
	Nonadecane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.21 JN	NE	NE
	Octacosane	0.55 JN	ND	ND	ND	ND	ND	ND	ND	ND	0.34 JN	ND	ND	ND	ND	ND	ND	ND	ND	-	NE	NE
	Octadecane	0.32 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	-	NE	NE
	Octadecanoic acid	ND	ND	0.32 JN	0.64 JN	0.93 JN	0.83 JN	0.46 JN	0.89 JN	0.42 JN	ND	0.79 JN	0.23 JN	0.24 JN	0.27 JN	0.21 JN	0.20 JN	0.41 JN	0.22 JN	1.5 JN	NE	NE
	Pentacosane	ND	ND	ND	ND	ND	0.16 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Pentatriacontane	ND	ND	ND	ND	0.44 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Tricosane, 2-methyl-	ND	ND	ND	ND	ND	ND	ND	ND	1.1 JN	0.51 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Tridecane, 7-hexyl-	0.18 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
	Tritetracontane	0.27 JN	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NE	NE
Metals by EPA 6010C	Arsenic	**9.96 D**	ND	ND	ND	**2.96 JD**	ND	ND	**81.7 D**	**2.49 JD**	**1.71 JD**	ND	**46.5 D**	**33.2D**	**7.30 D**	**12.6 D**	**6.95 D**	**13.2 D**	**17.9 D**	**11.1 D**	**0.61**	**5.8**
	Beryllium	0.213 JD	0.219 D	0.208 JD	ND	0.279 JD	ND	0.298 JD	0.762 D	0.205 JD	0.197 JD	ND	0.354 JD	0.174 JD	ND	ND	0.272 JD	0.190 JD	0.240 JD	0.194 JD	**32**	**63**
	Cadmium	1.52 D	0.153 JD	ND	0.324 JD	0.268 JD	ND	ND	0.133 JD	0.962 D	0.139 JD	ND	ND	0.254 JD	ND	ND	0.199 JD	ND	0.192 JD	0.192 JD	**14**	**3**
	Chromium	15.3 D	8.78 D	18.3 D	6.19 JD	11 D	3.12 JD	9.67 D	ND	19 D	8.97 D	1.92 JD	1.93 JD	3.54 JD	ND	ND	ND	3.23 JD	ND	1.40 JD	**24,000**	**360,000**
	Copper	83.7 D	5.43 JD	9.73 D	8.77 D	4.96 JD	ND	ND	ND	62.9 D	4.41 D	ND	4.31 JD	9.53 D	ND	4.01 JD	9.16 D	8.17 D	7.80 D	7.58 D	**620**	**700**
	Iron	**34,100 BD**	**11,900 BD**	**5,180 BD**	**5,990 BD**	**19,700 BD**	**3,230 BD**	**4,620 BD**	**24,500 BD**	**16,900 BD**	**12,100 BD**	**1,130 BD**	**14,900 BD**	**18,300 BD**	**8,350 BD**	**9,800 BD**	**30,400 BD**	**26,900 BD**	**30,400 BD**	**23,900 BD**	**11,000**	**150**
	Lead	**343 D**	22.1 D	ND	82.5 D	24 D	10.8 D	8.29 D	65.2 D	87.9 D	13.2 D	5.6 JD	ND	57.7 D	9.45 D	13.1 D	6.63 D	5.42 JD	7.91 D	11.9 D	**400**	**270**
	Manganese	**204 D**	42.3 D	10.7 D	**65.4 D**	44.1 D	16.6 D	12.1 D	**87.8 D**	**327 D**	**84.1 D**	3.80 JD	27.2 D	34.2 D	5.64 JD	10.4 D	12.7 D	9.02 D	45.6 D	**201 D**	**360**	**65**
	Nickel	10.8 JD	ND	ND	ND	ND	ND	ND	ND	25.2 JD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**320**	**130**
	Selenium	ND	ND	ND	ND	3.29 JBD	ND	1.28 JBD	ND	4.45 JBD	2.80 JBD	ND	ND	ND	ND	ND	1.36 JBD	ND	1.54 JBD	3.71 JBD	**78**	**21**
	Silver	1.69 JD	ND	ND	ND	ND	ND	ND	ND	1.64 JD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**78**	**3.4**
	Thallium	**3.07 JD**	ND	**1.78 JD**	ND	**3.83 JD**	**1.67 JD**	ND	ND	ND	ND	ND	**5.61 JD**	**6.34 JD**	ND	ND	**8.46 D**	**2.51 JD**	**3.85 JD**	**1.71 JD**	**0.16**	**0.28**
	Zinc	803 D	28.7 D	ND	77.4 D	26.4 JD	14 D	ND	42.5 D	235 D	20.8 JD	ND	19.2 JD	71.8 D	ND	ND	ND	ND	ND	ND	**4,600**	**1,200**
Metals by EPA 6020A	Arsenic	ND	ND	ND	ND	ND	ND	ND	**38.9 D**	ND	ND	ND	**26.4 JD**	**15.2 JD**	ND	ND	ND	ND	**13.5 JD**	ND	**0.61**	**5.8**
	Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**32**	**63**
	Cadmium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**14**	**3**
	Chromium	20.7 JD	ND	109 JD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**24,000**	**360,000**
	Copper	82.7 D	ND	47.2 D	11.8 JD	6.21 JD	6.29 JD	ND	ND	76.8 D	ND	ND	ND	ND	ND	6.78 JD	6.77 JD	ND	6.26 JD	ND	**620**	**700**
	Iron	**50,500 D**	**5,550 D**	**21,700 D**	**5,390 D**	**5,970 D**	**6,950 D**	**5,770 D**	**15,300 D**	**13,900 D**	**8,570 D**	**2,710 D**	**13,900 D**	**12,300 D**	**9,390 D**	**11,300 D**	**21,300 D**	**19,800 D**	**53,600 D**	**15,500 D**	**11,000**	**150**
	Lead	**587 D**	ND	ND	95.6 JD	38.3 JD	34.9 JD	13.0 JD	20.8 JD	96.2 JD	12.4 JD	ND	7.16 JD	13.3 JD	10.3 JD	13.9 JD	6.86 JD	ND	80.2 JD	6.78 JD	**400**	**270**
	Manganese	**355 D**	ND	59.6 D	84.4 D	56.0 D	54.0 D	8.92 JD	31.3 D	**316 D**	54.8 D	ND	**85.7 D**	30.8 D	12.5 JD	ND	ND	ND	**629 D**	**110 D**	**360**	**65**
	Nickel	15.9 JD	ND	ND	ND	ND	ND	ND	ND	17.2 JD	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**320**	**130**
	Selenium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**78**	**21**
	Silver	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**78**	**3.4**
	Thallium	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**0.16**	**0.28**
	Zinc	1,090 D	ND	ND	152 D	34.2 JD	82.0 JD	ND	ND	289 D	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**4,600**	**1,200**
Mercury by EPA 7471B	Mercury	0.177	0.0759	ND	0.110	0.214	0.0522	0.0847	0.0120 J	0.377	0.0591	ND	ND	ND	ND	ND	0.0326	0.0414	0.0234 J	0.0149 J	**2**	**1**

Notes:
Soil concentrations are reported in milligrams per kilogram (mg/kg), unless otherwise noted.
Analytes that are not shown for the method were not detected.
NE: Regulatory standard not established for contaminant
ND: Not detected.
B: Compound was detected in the method blank and in the record sample.
PSRG 1 - Preliminary Residential Soil Remediation Goal, Health Based, July 2013.
PSRG 2 - Preliminary Soil remediation Goals, Protection of Groundwater, July 2013.
Concentrations exceeding a IHSB PSRG goals are shown in **BOLD** fields.
See **Figures 1 & 2** for sample locations, with sample results indicated on **Figure 2**.

TIC Notes:
TICs: Tentatively Identified Compounds
N: Laboratory Qualifier. Presumptive evidence of material.
J: Laboratory Qualifier. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
D: The sample was analyzed at a dilution. The sample specific dilution factor is indicated in the laboratory report.

Table 3
Temporary Monitor Wells Field Parameters
Spring Hope Dump
NC 581 Spring Hope, NC
ID No. NONCD0000452
Task Order No. 452DP-6

Well ID	Sample Date	Temp. (^oF)	Spec. Cond. (µS/cm)	pH	Turbidity (NTU)
TMW-1	10/11/13	18.3	1114	6.90	3.60
TMW-2	10/11/13	17.9	660	7.04	6.08
TMW-3	10/11/13	18.0	155	6.77	10.33
TMW-5	10/11/13	18.3	75	6.10	16.80
TMW-7	10/11/13	17.6	32	5.96	2.35

Notes:

Temp. (^oF): Temperature in degrees Fahrenheit.
Spec. Cond. (µS/cm): Specific Conductivity in microSiemens per centimeter.
pH: no units for pH.
Turbidity (NTU): Turbidity in Nephelometric Turbidity Units.

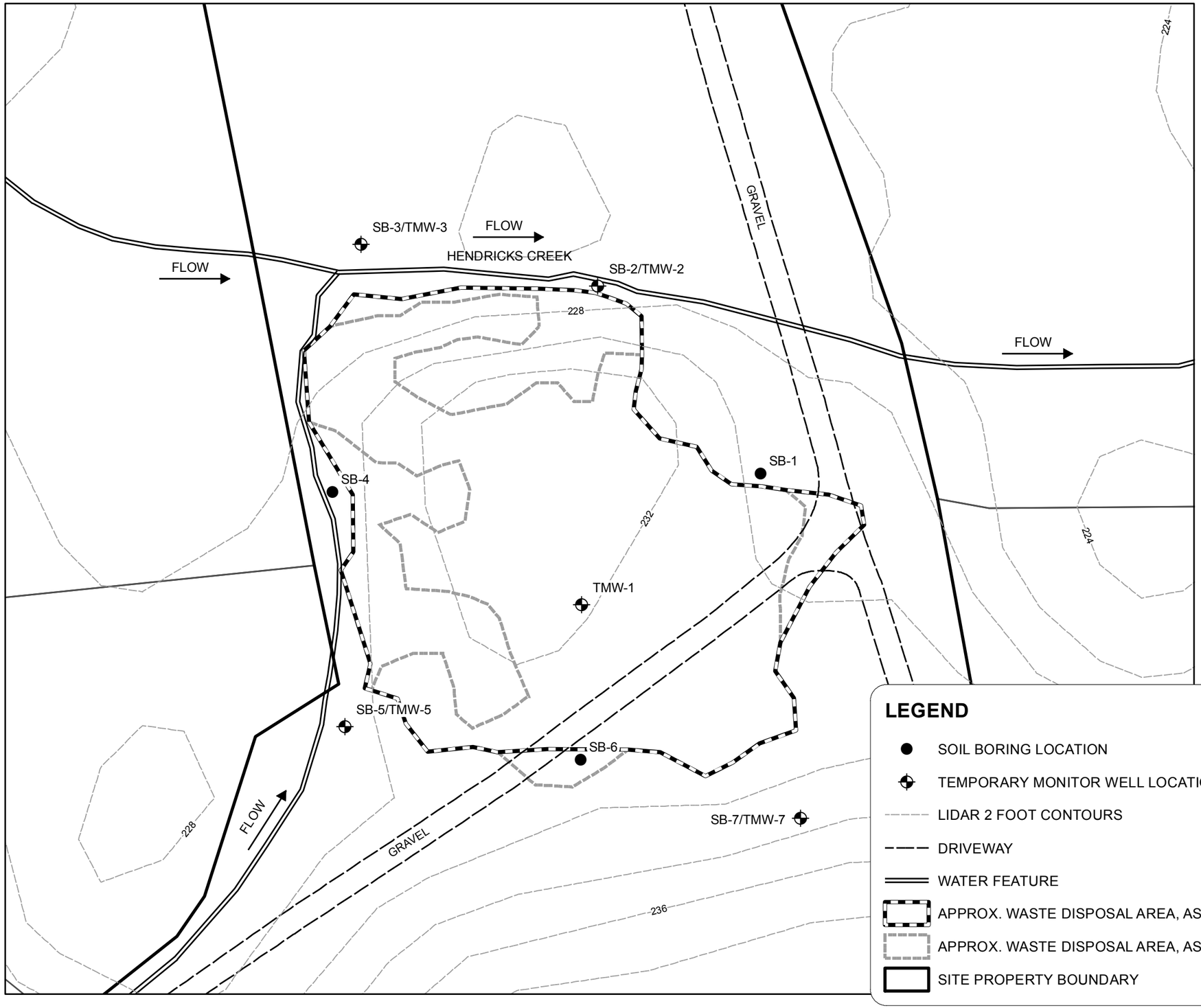
Table 4
Soil Sampling Analytical Results
Spring Hope Dump
NC 581 Spring Hope, North Carolina
ID No. NONCD0000452
Task Order No. 452DP-6

Method	Sample ID	TMW-1	TMW-2	TMW-3	TMW-5	TMW-7	GW-DUP	GW-EQ BLK	2L Standard
	Date Collected	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	10/11/2013	
	Parameter								
EPA 9056/300.0	Nitrate	820 J	110	54	210	150	160	ND	**10,000**
	Sulfate	18,000	94,000	4,600	6,700	ND	ND	ND	**250,000**
EPA 350.1	Ammonia as N	**19,000**	150	ND	ND	ND	ND	ND	**1,500***
VOCs by EPA 8260B	Acetone	12	ND	ND	ND	ND	ND	ND	**6,000**
	Chlorobenzene	4.2	ND	ND	ND	ND	ND	ND	**50**
VOCs TICs by EPA 8260B	All Constituents	ND	ND	ND	ND	ND	ND	ND	**Constituent Specific**
SVOCs by EPA 8270D	3, 4-Methylphenol	21	ND	ND	ND	ND	ND	ND	**40**
SVOCs TICs by EPA 8270D	Benzeneacetic acid	18 JN	ND	ND	ND	ND	ND	ND	**NE**
	Benzenepropanoic acid	23 JN	ND	ND	ND	ND	ND	ND	**NE**
	Cyclohexane, isothiocyanato-	23 JN	ND	ND	ND	ND	ND	ND	**NE**
	Diethyltoluamide	ND	ND	6.3 JN	5.9 JN	ND	ND	ND	**NE**
	Ethanol, 2-(2-butoxyethoxy)-	ND	ND	ND	9.1 JN	ND	ND	ND	**NE**
	Octadecanoic acid	13 JN	ND	ND	ND	ND	ND	ND	**NE**
EPA 6020A	Antimony	0.295 J	0.702 J	ND	ND	0.409 J	ND	ND	**1**
	Arsenic	1.40	1.19	ND	ND	ND	ND	ND	**10**
	Beryllium	ND	ND	ND	ND	ND	ND	ND	**4**
	Cadmium	ND	ND	ND	ND	ND	ND	ND	**2**
	Chromium	1.86	ND	ND	ND	ND	ND	ND	**10**
	Copper	2.06	1.92	0.506 J	0.637 J	1.20	0.735 J	0.140 J	**1,000**
	Iron	**9430 D**	**3280 D**	184	84.7	272	276	ND	**300**
	Lead	0.952 J	1.13	0.524 J	0.379 J	0.169 J	0.121 J	ND	**15**
	Manganese	**14,000 BD**	**613 BD**	**340 B**	**55.9 B**	**224 B**	**228 B**	0.471 JB	**50**
	Nickel	17.7	4.84	11.0	3.66	13.3	13.4	0.157 J	**100**
	Selenium	0.990 J	ND	ND	ND	ND	ND	ND	**20**
	Silver	ND	1.94	2.51	1.39	0.194 J	0.122 J	ND	**20**
	Thallium	ND	ND	ND	ND	ND	ND	ND	**0.28**
	Zinc	39.8	150	33.0	24.0	16.0	16.2	1.51 J	**1,000**
EPA 7470A	Mercury	ND	ND	ND	ND	ND	ND	ND	**1**

Notes:
Concentrations are reported in micrograms per liter (µg/L).
NA: Not analyzed
ND: Not detected
VOCs: Volatile Organic Compounds
SVOCs: Semi-Volatile Organic Compounds
J: Laboratory Qualifier. Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B: The constituent was also detected in the laboratory method blank.
Analytes that are not shown for the method were not detected.
NE: Regulatory standard not established for contaminant
All detections that exceed the 2L Standards are shown in **BOLD**.
See **Figure 4** for sample locations and groundwater exceedances.
2L Standard: North Carolina Groundwater Quality Standards: 15A NCAC 2L.0202 (effective April 2012).
* IMAC: Interim Maximum Allowable Concentrations (effective January 2010).

TIC Notes:
TICs: Tentatively Identified Compounds
J: Laboratory Qualifier. Indicates an Estimated Value for TICs
N: Laboratory Qualifier. Presumptive evidence of material.
T: Laboratory Qualifier. Result is a tentatively identified compound (TIC) and an estimated value.
Only those compounds with a quality factor above 85% are reported.
D: The sample was analyzed at a dilution. The sample specific dilution factor is indicated in the laboratory report.

Figures



N

PARCEL SOURCE:
NASH COUNTY GIS, DATED JAN. 2012

STREET SOURCE:
NASH COUNTY GIS, DATED JUNE 2010

CONTOUR DATA:
NCDOT LIDAR BASED, DATED 2007

DRIVEWAY AND TREE LINE DIGITIZED USING
AERIAL IMAGERY FROM NC ONEMAP, DATED 2010

0 50 100 Feet

LEGEND

- SOIL BORING LOCATION
- TEMPORARY MONITOR WELL LOCATION
- LIDAR 2 FOOT CONTOURS
- DRIVEWAY
- WATER FEATURE
- APPROX. WASTE DISPOSAL AREA, AS DEFINED BY EM SURVEY & SOIL BORINGS
- APPROX. WASTE DISPOSAL AREA, AS DEFINED BY EM SURVEY
- SITE PROPERTY BOUNDARY

DATE:	JAN. 2014
DRAWN BY:	BTR
CHECKED BY:	
SCALE:	1" = 50'
PROJECT NO:	1054-11-1019
DRAWING NUMBER:	

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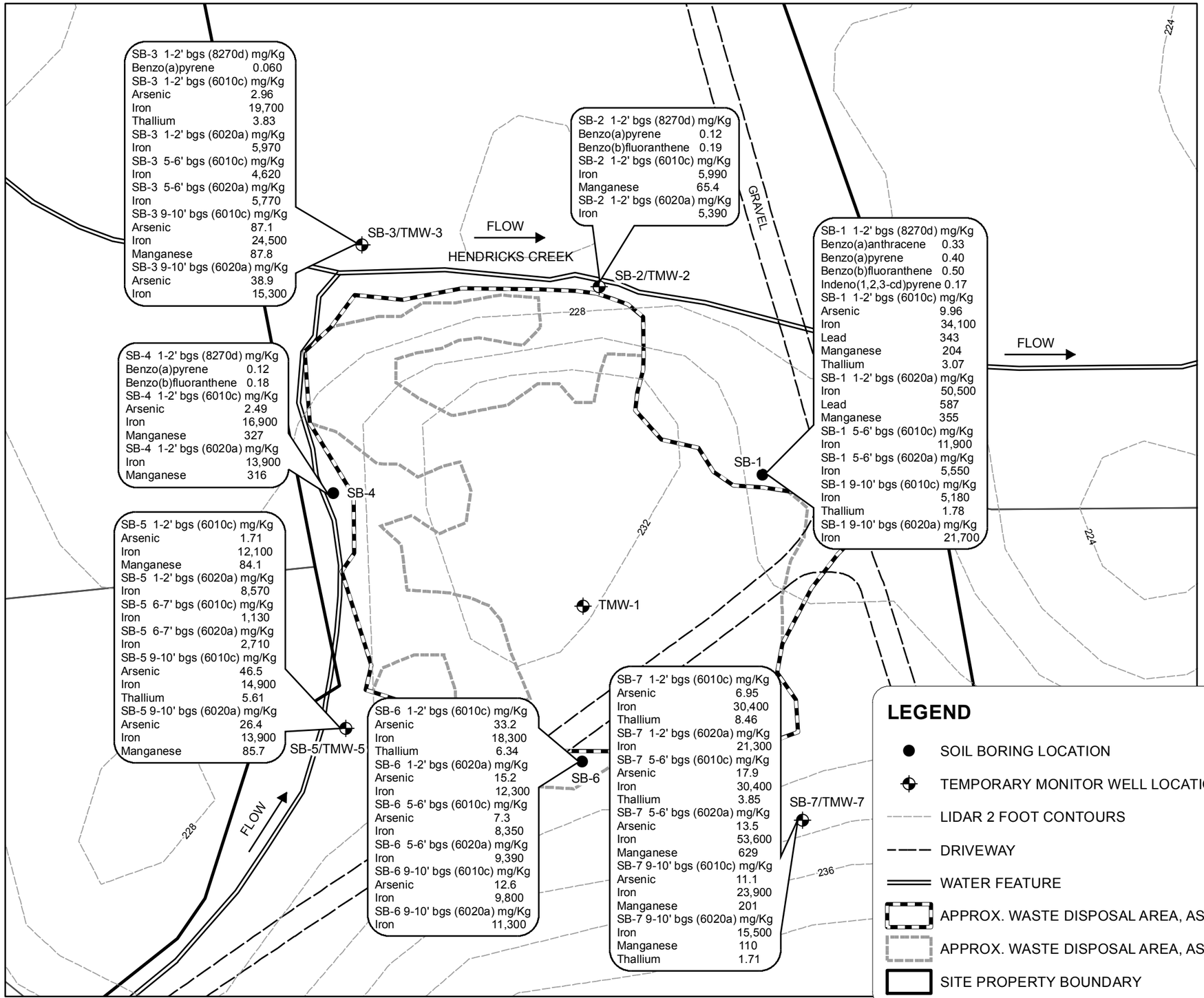
SITE MAP WITH SAMPLE LOCATIONS

SPRING HOPE DUMP - TASK ORDER 452DP-6
SPRING HOPE, NORTH CAROLINA

FIGURE NO.
1



N

Constituent	Preliminary Residential Health-Based PSRG	Protection of Groundwater PSRG
Benzo(a)anthracene	0.15	0.18
Benzo(a)pyrene	0.015	0.059
Benzo(b)fluoranthene	0.15	0.6
Indeno(1,2,3-cd)pyrene	0.15	2
Arsenic	0.61	5.8
Iron	11,000	150
Lead	400	270
Manganese	360	65
Thallium	0.16	0.28

PARCEL SOURCE:
NASH COUNTY GIS, DATED JAN. 2012

STREET SOURCE:
NASH COUNTY GIS, DATED JUNE 2010

CONTOUR DATA:
NCDOT LIDAR BASED, DATED 2007

DRIVEWAY AND TREE LINE DIGITIZED USING
AERIAL IMAGERY FROM NC ONEMAP, DATED 2010

ONLY CONSTITUENTS EXCEEDING PSRGs ARE SHOWN

SAMPLES COLLECTED OCTOBER 3 & 4, 2013

mg/Kg - MILLIGRAMS PER KILOGRAM

0 50 100 Feet

DATE: JAN. 2014
DRAWN BY: BTR
CHECKED BY:
SCALE: 1" = 50'
PROJECT NO: 1054-11-1019
DRAWING NUMBER:

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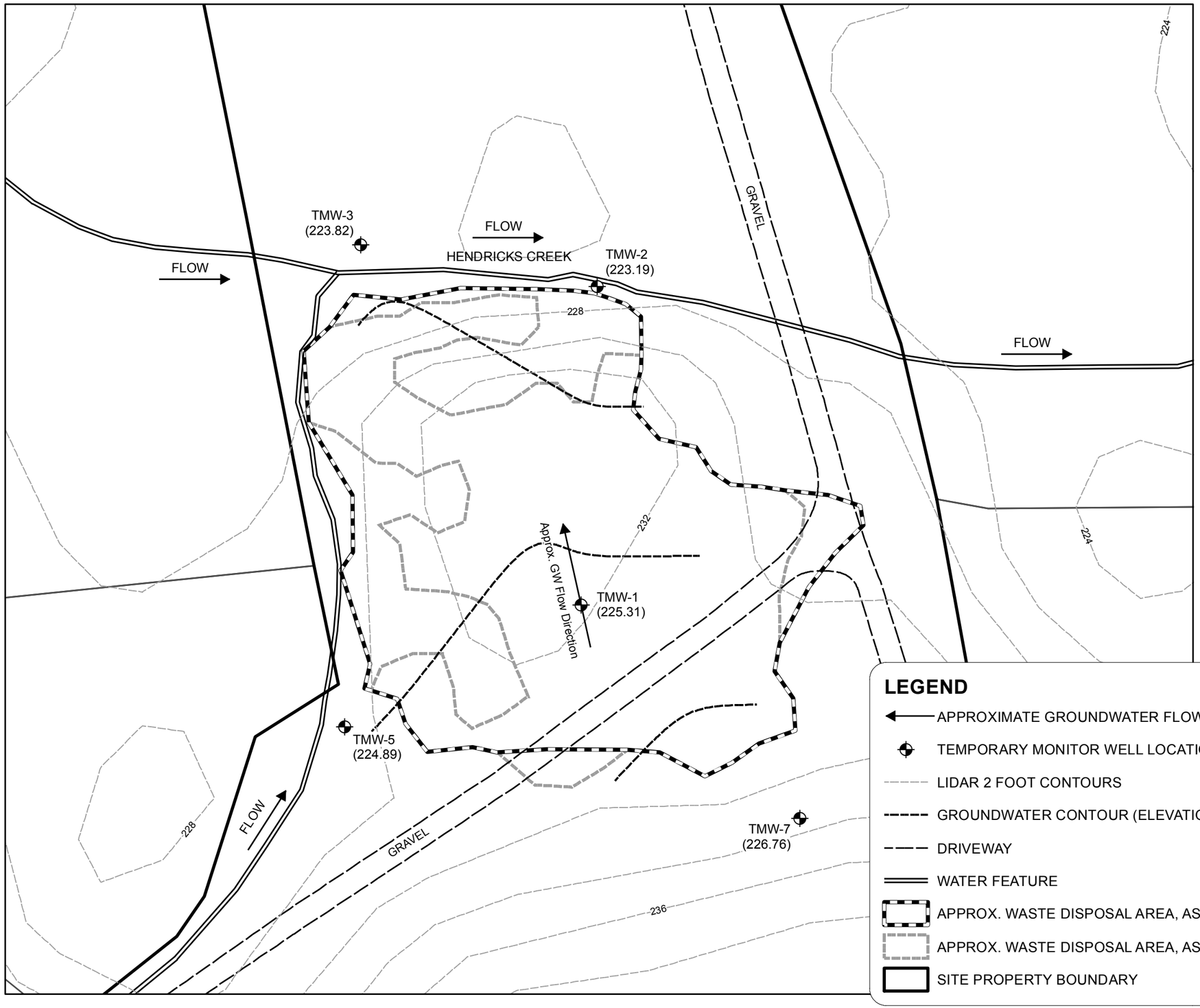
SOIL CONSTITUENT MAP

SPRING HOPE DUMP - TASK ORDER 452DP-6
SPRING HOPE, NORTH CAROLINA

FIGURE NO.
2



N

PARCEL SOURCE:
NASH COUNTY GIS, DATED JAN. 2012

STREET SOURCE:
NASH COUNTY GIS, DATED JUNE 2010

CONTOUR DATA:
NCDOT LIDAR BASED, DATED 2007

DRIVEWAY AND TREE LINE DIGITIZED USING
AERIAL IMAGERY FROM NC ONEMAP, DATED 2010

0 50 100 Feet

LEGEND

- APPROXIMATE GROUNDWATER FLOW DIRECTION
- TEMPORARY MONITOR WELL LOCATION
- LIDAR 2 FOOT CONTOURS
- GROUNDWATER CONTOUR (ELEVATIONS MEASURED OCT. 11, 2013)
- DRIVEWAY
- WATER FEATURE
- APPROX. WASTE DISPOSAL AREA, AS DEFINED BY EM SURVEY & SOIL BORINGS
- APPROX. WASTE DISPOSAL AREA, AS DEFINED BY EM SURVEY
- SITE PROPERTY BOUNDARY

SCALE: 1" = 50'	DATE: NOV. 2013	
PROJECT NO: 1054-11-1019	DRAWN BY: BTR	
DRAWING NUMBER:	CHECKED BY:	

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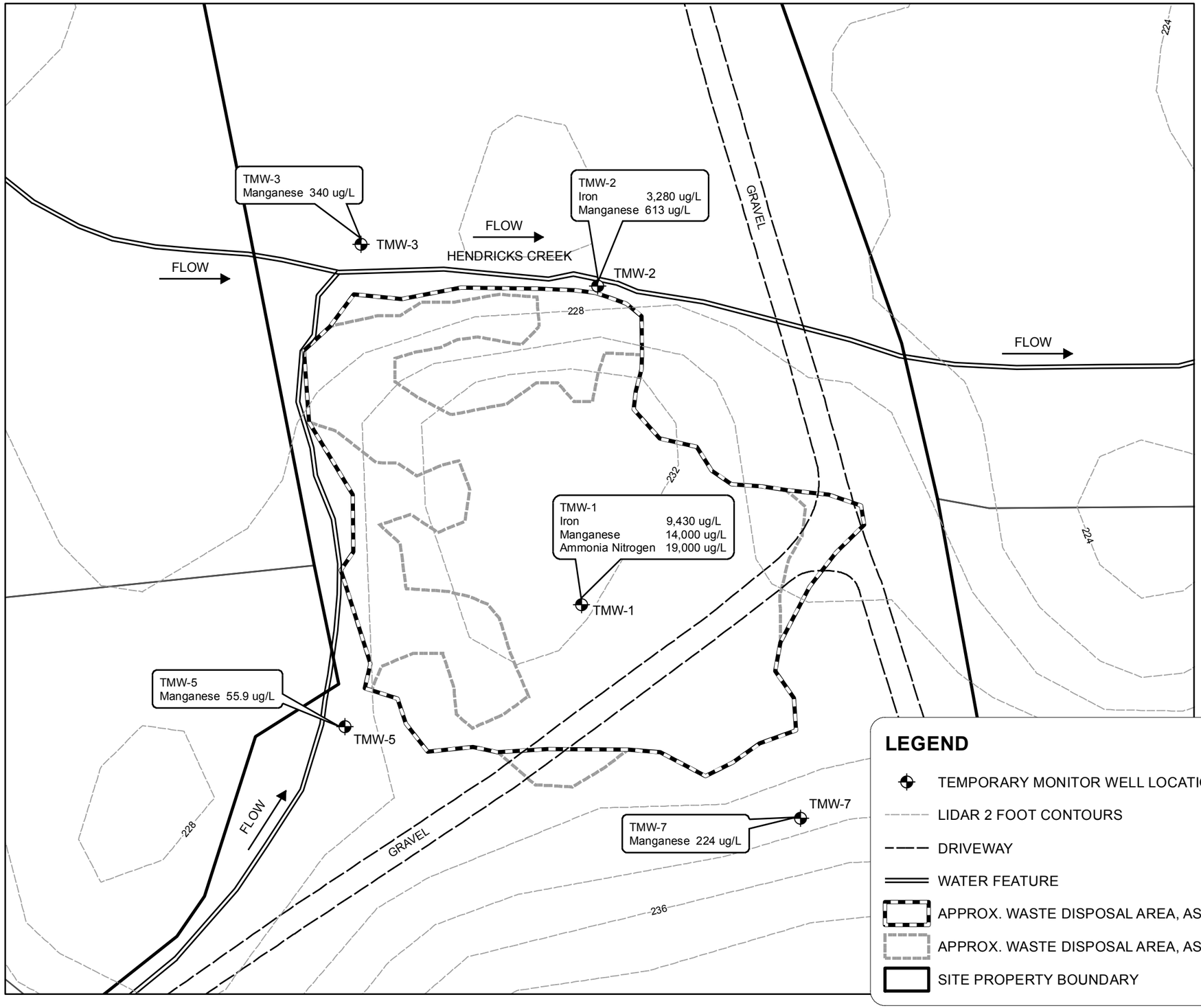
GROUNDWATER POTENTIOMETRIC MAP

SPRING HOPE DUMP - TASK ORDER 452DP-6
SPRING HOPE, NORTH CAROLINA

FIGURE NO.
3



N

Constituent	NCAC 2L Standard
Ammonia as Nitrogen	1,500
Iron	300
Manganese	50

PARCEL SOURCE:
NASH COUNTY GIS, DATED JAN. 2012

STREET SOURCE:
NASH COUNTY GIS, DATED JUNE 2010

CONTOUR DATA:
NCDOT LIDAR BASED, DATED 2007

DRIVEWAY AND TREE LINE DIGITIZED USING AERIAL IMAGERY FROM NC ONEMAP, DATED 2010

ONLY CONSTITUENTS EXCEEDING 2L STANDARDS ARE SHOWN

SAMPLES COLLECTED OCTOBER 11, 2013

ug/L - MICROGRAMS PER LITER

0 50 100 Feet

LEGEND

- TEMPORARY MONITOR WELL LOCATION
- LIDAR 2 FOOT CONTOURS
- DRIVEWAY
- WATER FEATURE
- APPROX. WASTE DISPOSAL AREA, AS DEFINED BY EM SURVEY & SOIL BORINGS
- APPROX. WASTE DISPOSAL AREA, AS DEFINED BY EM SURVEY
- SITE PROPERTY BOUNDARY

DATE: JAN. 2014
DRAWN BY: BTR
CHECKED BY:
SCALE: 1" = 50'
PROJECT NO: 1054-11-1019
DRAWING NUMBER:

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GROUNDWATER CONSTITUENT MAP

SPRING HOPE DUMP - TASK ORDER 452DP-6
SPRING HOPE, NORTH CAROLINA

FIGURE NO.
4

Appendix I

Appendix I
GPS Coordinates of Selected Features
Spring Hope Dump
NC 581 Spring Hope, NC
ID No. NONCD0000452
Task Order No. 452DP-6

Site Feature (Refer to Figures 2 and 3)	Location*	
	Northing	Easting
TMW-1	797683.0190340	2266181.0630880
TMW-2	797836.2340380	2266188.8056990
TMW-3	797856.1900000	2266075.1700000
TMW-5	797624.4025550	2266067.4191970
TMW-7	797580.3860000	2266286.2280000
SB-1	797745.6222690	2266267.0611300
SB-4	797736.7681020	2266061.3319600
SB-6	797608.1222690	2266180.6027900

Notes:
* = All coordinates are presented in State Plane Coordinate System in meters using the North American Datum of 1983 (NAD83).
TMW = Temporary Monitoring Well
SB = Soil BoringVapor Probe

Appendix II

LOG OF BORING NO. SB-1

PROJECT:	**Spring Hope Dump**	APPROXIMATE ELEVATION:	
TASK ORDER:	**452DP-6**	BORING DEPTH (FT.):	**10**
PROJECT LOCATION:	**Spring Hope, North Carolina**	LOGGED BY:	**A. Culpepper**
DRILLING CONTRACTOR:	**S&ME**		
DRILLING METHOD:	**4¼" H.S.A.**		
DATE DRILLED:	**10/3/2013**		

SAMPLE NUMBER	PID (ppm)	FID (ppm)	ELEVATION (feet)	DEPTH (feet)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
				0.0				
1	0.5				OH		**Organics, Topsoil/grass**	
2	0.3				ML		**Orange red Clayey Silt, soft, dry**	
3	0.1						**No recovery, loose soil**	
4	0.6				ML			
5	0.8							
				5.0				
6	1.3				ML		**Dark grey Silty Clay, moist, soft**	
7	0.2						**Light grey Silty Clay, moist, soft**	
8	0.2				ML			
9	0.4				SC		**Light grey Sandy Clay, fine-grained, moist, soft**	
10	0.4				CL		**Orange tan Clay, moist, soft**	
				10.0				

NOTES: **No waste encountered.**

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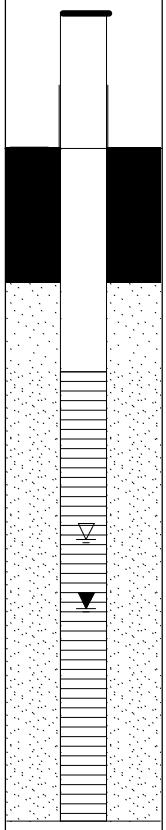
COMPLETION REPORT OF WELL NO. TMW-1

PROJECT:	**Spring Hope Dump**	APPROXIMATE ELEVATION:	
TASK ORDER:	**452DP-6**	BORING DEPTH (FT.):	**15**
PROJECT LOCATION:	**Spring Hope, North Carolina**	LOGGED BY:	**A. Culpepper**
DRILLING CONTRACTOR:	**S&ME**		
DRILLING METHOD:	**4¼" H.S.A.**		
DATE DRILLED:	**10/3/2013**		

STRATA DESCRIPTION / USCS CLASSIFICATION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface		0.0							
Light brown Clayey Silt, hard, dry				0					0.8
Light brown Silt with grvel									0.9
Dark brown Silt with waste				3	BS				2.3
No recovery - waste only									2.1
		5.0							3.2
									3.0
									1.1
									2.1
Dark brown Silt, soft, moist									0.8
Gray Clayey Silt, soft, wet		10.0							
		15.0		15	FP BSC				

WELL CONSTRUCTION DETAILS

RISER CASING
Diameter: **1"**
Type: **Sch 40 PVC**
Interval: **-3' - 5'**

GROUT
Type:
Interval:

SEAL
Type: **Bentonite**
Interval: **0' - 3'**

FILTERPACK
Type: **Sand**
Interval: **3' - 15'**

SCREEN
Diameter: **1"**
Type: **Sch 40 PVC**
Interval: **5' - 15'**

COORDINATES
Northing:
Easting:

LEGEND
▽ = Water Level At Termination of Boring (TOB)
▼ = Water Level After 24 Hours
BS = Bentonite Seal
FP = Filter Pack
CG = Cement Grout
BSC = Bottom of Screen
REC = Core Recovery
RQD = Rock Quality Designation

NOTES: Waste encountered at 2 to 8 ft. bgs. (plastic and glass)

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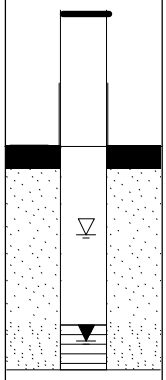
COMPLETION REPORT OF WELL NO. SB-2/TMW-2

PROJECT:	**Spring Hope Dump**	APPROXIMATE ELEVATION:	
TASK ORDER:	**452DP-6**	BORING DEPTH (FT.):	**5**
PROJECT LOCATION:	**Spring Hope, North Carolina**	LOGGED BY:	**A. Culpepper**
DRILLING CONTRACTOR:	**S&ME**		
DRILLING METHOD:	**Hand Auger**		
DATE DRILLED:	**10/4/2013**		

STRATA: DESCRIPTION / USCS CLASSIFICATION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)	WELL CONSTRUCTION DETAILS
Ground Surface										
Dark brown, Silt, soft, dry		0.0		0 0.5	BS				0.3	RISER CASING Diameter: **1"** Type: **Sch 40 PVC** Interval: **-3' - 4'**
Grey, tan Silty Sand, soft, wet										GROUT Type: Interval:
Tan Sand, coarse-grained, soft, loose, wet		5.0		5	FP BSC					SEAL Type: **Bentonite** Interval: **0' - 0.5'** FILTERPACK Type: **Sand** Interval: **0.5' - 5'** SCREEN Diameter: **1"** Type: **Sch 40 PVC** Interval: **4' - 5'** COORDINATES Northing: Easting:

LEGEND
- ▽ = Water Level At Termination of Boring (TOB)
- ▼ = Water Level After 24 Hours
- BS = Bentonite Seal
- FP = Filter Pack
- CG = Cement Grout
- BSC = Bottom of Screen
- REC = Core Recovery
- RQD = Rock Quality Designation

NOTES: No waste encountered.

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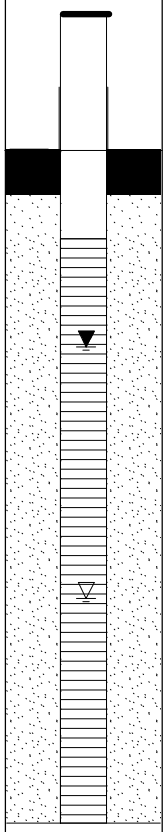
COMPLETION REPORT OF WELL NO. SB-3/TMW-3

PROJECT:	**Spring Hope Dump**	APPROXIMATE ELEVATION:	
TASK ORDER:	**452DP-6**	BORING DEPTH (FT.):	**15**
PROJECT LOCATION:	**Spring Hope, North Carolina**	LOGGED BY:	**A. Culpepper**
DRILLING CONTRACTOR:	**S&ME**		
DRILLING METHOD:	**4¼" H.S.A.**		
DATE DRILLED:	**10/4/2013**		

STRATA: DESCRIPTION / USCS CLASSIFICATION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface									
Dark brown Silty Sand w/organics, soft, dry		0.0		0 1	BS				0.6
Grey/ light grey Silt, moist, hard									0.8
Sand, loose, wet (possible perched water)		5.0							1.7
Grey/ light grey Silty Sand, soft, moist									0.1
Tan/ light brown Clay, hard, dry									0.2
Silty Sand, saturated, loose, at 13 ft. bgs. increase Clay decrease Sand		10.0							
		15.0		15	FP BSC				



WELL CONSTRUCTION DETAILS

RISER CASING
Diameter: **1"**
Type: **Sch 40 PVC**
Interval: **-3' - 2'**

GROUT
Type:
Interval:

SEAL
Type: **Bentonite**
Interval: **0' - 1'**

FILTERPACK
Type: **Sand**
Interval: **1' - 15'**

SCREEN
Diameter: **1"**
Type: **Sch 40 PVC**
Interval: **2' - 15'**

COORDINATES
Northing:
Easting:

LEGEND
▽ = Water Level At Termination of Boring (TOB)
▼ = Water Level After 24 Hours
BS = Bentonite Seal
FP = Filter Pack
CG = Cement Grout
BSC = Bottom of Screen
REC = Core Recovery
RQD = Rock Quality Designation

NOTES: No waste encountered.

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LOG OF BORING NO. SB-4

PROJECT:	**Spring Hope Dump**	APPROXIMATE ELEVATION:	
TASK ORDER:	**452DP-6**	BORING DEPTH (FT.):	**5**
PROJECT LOCATION:	**Spring Hope, North Carolina**	LOGGED BY:	**A. Culpepper**
DRILLING CONTRACTOR:	**S&ME**		
DRILLING METHOD:	**Hand Auger**		
DATE DRILLED:	**10/4/2013**		

SAMPLE NUMBER	PID (ppm)	FID (ppm)	ELEVATION (feet)	DEPTH (feet)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
				0.0	SM		**Dark brown Silty Sand w/organics, soft, dry**	
					MH		**Grey/ light grey Silt, moist, hard**	
				5.0	SW		**Light grey Sand, coarse-grained, saturated, loose, caving in at 5 ft. bgs.**	

NOTES: **No waste encountered.**

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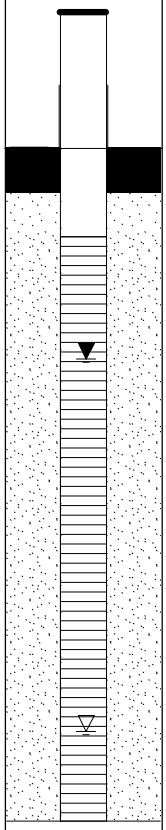
COMPLETION REPORT OF WELL NO. SB-5/TMW-5

PROJECT:	**Spring Hope Dump**	APPROXIMATE ELEVATION:	
TASK ORDER:	**452DP-6**	BORING DEPTH (FT.):	**15**
PROJECT LOCATION:	**Spring Hope, North Carolina**	LOGGED BY:	**A. Culpepper**
DRILLING CONTRACTOR:	**S&ME**		
DRILLING METHOD:	**4¼" H.S.A.**		
DATE DRILLED:	**10/4/2013**		

STRATA: DESCRIPTION / USCS CLASSIFICATION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface									
Dark brown Silty Sand w/organics, soft, dry		0.0		0 1	BS				0.1
Grey/ light grey Silt, moist, hard									0.2
Loose Sand, wet									1.9
Grey/ light grey coarse Sand, soft, moist, at 7 ft. bgs. decrease Sand, increase Silt		5.0							0.5
Tan light brown Clay, hard, dry		10.0							0.2
Grey Sand, coarse-grained, soft, saturated		15.0		15	FP BSC				



WELL CONSTRUCTION DETAILS

RISER CASING
Diameter: **1"**
Type: **Sch 40 PVC**
Interval: **-3' - 2'**

GROUT
Type:
Interval:

SEAL
Type: **Bentonite**
Interval: **0' - 1'**

FILTERPACK
Type: **Sand**
Interval: **1' - 15'**

SCREEN
Diameter: **1"**
Type: **Sch 40 PVC**
Interval: **2' - 15'**

COORDINATES
Northing:
Easting:

LEGEND
▽ = Water Level At Termination of Boring (TOB)
▼ = Water Level After 24 Hours
BS = Bentonite Seal
FP = Filter Pack
CG = Cement Grout
BSC = Bottom of Screen
REC = Core Recovery
RQD = Rock Quality Designation

NOTES: No waste encountered.

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LOG OF BORING NO. SB-6

PROJECT:	**Spring Hope Dump**	APPROXIMATE ELEVATION:	
TASK ORDER:	**452DP-6**	BORING DEPTH (FT.):	**10**
PROJECT LOCATION:	**Spring Hope, North Carolina**	LOGGED BY:	**A. Culpepper**
DRILLING CONTRACTOR:	**S&ME**		
DRILLING METHOD:	**4¼" H.S.A.**		
DATE DRILLED:	**10/3/2013**		

SAMPLE NUMBER	PID (ppm)	FID (ppm)	ELEVATION (feet)	DEPTH (feet)	USCS	GRAPHIC SYMBOL	DESCRIPTION	REMARKS
				0.0				
1	0.1				MH		**Topsoil/grass (2"), dark grey/brown Silt, soft, dry**	
2	0.1				MH		**Grey brown Silt, soft, dry**	
3	0.2				MH		**Dark brown/ black organic Silt, dry, soft**	
4	0.1						**Low recovery**	
5	0.2							
				5.0				
6	0.1				ML		**Orange tan Clayey Silt/ Silty Clay, soft, moist**	
7	0.3						**Orange tan Clay, soft, moist**	
8	0.1							
9	0.1				CL			
10	0.2							
				10.0				

NOTES: **No waste encountered.**

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COMPLETION REPORT OF WELL NO. SB-7/TMW-7

PROJECT:	**Spring Hope Dump**	APPROXIMATE ELEVATION:	
TASK ORDER:	**452DP-6**	BORING DEPTH (FT.):	**20**
PROJECT LOCATION:	**Spring Hope, North Carolina**	LOGGED BY:	**A. Culpepper**
DRILLING CONTRACTOR:	**S&ME**		
DRILLING METHOD:	**4¼" H.S.A.**		
DATE DRILLED:	**10/3/2013**		

STRATA: DESCRIPTION / USCS CLASSIFICATION	SYMBOL	DEPTH (feet)	WELL DETAILS	DEPTH (feet)	LEGEND	SPT (N-value)	ELEVATION (feet)	FID (ppm)	PID (ppm)
Ground Surface									
Topsoil/mulch (2"), orange/red Clayey Silt, soft, dry		0.0		0					10.1
Orange/red Clayey Silt, soft, dry, no odor									22.3
				3	BS				12.3
									9.2
									4.2
Orange/red, slight yellow Clayey Silt, soft, dry, decrease silt at 8 ft. bgs.		5.0							0.9
									2.3
									11.3
									13.2
Orange/red slight yellow Silt, soft, dry									14.2
Reddish brown Silt, moist, harder, increase moisture		10.0							
Reddish orange Silt, wet, soft (saturated) at 16 to 19 ft. bgs., hard at 19 ft. bgs.		15.0							
		20.0		20	FP BSC				

WELL CONSTRUCTION DETAILS

RISER CASING
Diameter: **1"**
Type: **Sch 40 PVC**
Interval: **-3' - 5'**

GROUT
Type:
Interval:

SEAL
Type: **Bentonite**
Interval: **0' - 3'**

FILTERPACK
Type: **Sand**
Interval: **3' - 20'**

SCREEN
Diameter: **1"**
Type: **Sch 40 PVC**
Interval: **5' - 20'**

COORDINATES
Northing:
Easting:

LEGEND
▽ = Water Level At Termination of Boring (TOB)
▼ = Water Level After 24 Hours
BS = Bentonite Seal
FP = Filter Pack
CG = Cement Grout
BSC = Bottom of Screen
REC = Core Recovery
RQD = Rock Quality Designation

NOTES: No waste encountered.

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Appendix III

SUMMARY OF GEOPROBE BORING

S&ME

Project Name: Spring Hope Dump
Project No.: 1054-11-1019

Boring Number: SB-7/TMW-7
Sampling Personnel: A. Culpepper
Date Drilled: 10/3/13
Depth to Groundwater: 16.13
Total Boring Depth: 20'

Depth (ft-bgs) To	Depth (ft-bgs) From	SOIL DESCRIPTION	ORGANIC VAPOR READINGS (ppm) PID	FID	@ ft. bgs.
0	1	2" topsoil / Mulch Orange Red CLAYEY / SILT soft / dry	10.1		
1	2	Orange RED CLAYEY / SILT, soft, dry	22.3		
2	3		12.3		
3	4		9.2		
4	5	Orange red CLAYEY / SILT, soft, dry, NO ODOR	4.2		
5	6	Orange Red, Slight yellow CLAYEY / SILT, soft, Dry	0.9		
6	7		2.3		
7	8	decrease silt	11.3		
8	9		15.2		
9	10	Orange Red, slight yellow SILT, soft, Dry	14.2		
10	15	reddish brown SILT, Moist, harder, Increase Moisture	NA		
15	20	Reddish orange SILT, Wet, hard @ 19'	NA		
		soft + wet (saturated) 16-19'			

Notes:
ft. bgs.= Depth in feet below ground surface
PID = Photo-ionization detector (readings in parts per million or ppm)
FID = Flame-ionization detector (readings in parts per million or ppm)
-- = No data or paramter not collected

Groundwater Sample Information (if applicable):

Total Piezometer Depth =
Screen =
Riser =
Date Sample Collected =

SUMMARY OF GEOPROBE BORING

S&ME

Project Name: Spring Hope Dump
Project No.: 1054-11-1019

Boring Number: TMW-1
Sampling Personnel: A. Culpepper
Date Drilled: 10/3/13
Depth to Groundwater: 8.73 ft bgs
Total Boring Depth: 15

Depth (ft-bgs) To	Depth (ft-bgs) From	SOIL DESCRIPTION	ORGANIC VAPOR READINGS (ppm) PID	FID	@ ft. bgs.
0	1	light Brown CLAYEY SILT, hard, dry	0.8		
1	2	light Brown SILT w/ Gravel	0.9		
2	3	Dark brown SILT w/ Waste	2.3		
3	4	No Recovery (Waste)	2.1		
4	5		3.2		
5	6		3.0		
6	7	No Recovery (Waste)	1.1		
7	8		2.1		
8	9	Dark brown SILT, soft, moist	0.8		
9	10	Gray CLAYEY SILT, soft, wet	NA		
10	15	" "			

Notes:
ft. bgs.= Depth in feet below ground surface
PID = Photo-ionization detector (readings in parts per million or ppm)
FID = Flame-ionization detector (readings in parts per million or ppm)
-- = No data or paramter not collected

Groundwater Sample Information (if applicable):

Total Piezometer Depth =
Screen =
Riser =
Date Sample Collected =

SUMMARY OF GEOPROBE BORING

S&ME

Project Name: Spring Hope Dump
Project No.: 1054-11-1019

Boring Number: SB-6
Sampling Personnel: A. Culpepper
Date Drilled: 10/3/13
Depth to Groundwater: NA
Total Boring Depth: 10

Depth (ft-bgs) To	Depth (ft-bgs) From	SOIL DESCRIPTION	ORGANIC VAPOR READINGS (ppm) PID	FID	@ ft. bgs.
0	1	2" topsoil + grass dark grey/brown SILT, soft, dry	0.1		
1	2	Grey brown SILT, soft dry	0.1		
2	3	Dark brown/Black organic SILT, dry soft	0.2		
3	4	Low Recovery	0.1		
4	5		0.2		
5	6	Orange tan clayey SILT, silty CLAY soft, moist	0.1		
6	7	Orange tan CLAY, soft, moist	0.3		
7	8	" "	0.1		
8	9		0.1		
9	10	" "	0.2		

Notes:
ft. bgs.= Depth in feet below ground surface
PID = Photo-ionization detector (readings in parts per million or ppm)
FID = Flame-ionization detector (readings in parts per million or ppm)
-- = No data or paramter not collected

Groundwater Sample Information (if applicable):

Total Piezometer Depth =
Screen =
Riser =
Date Sample Collected =

Oct 31 - Nov 11 12 strait

SUMMARY OF GEOPROBE BORING

S&ME

Project Name: Spring Hope Dump
Project No.: 1054-11-1019

Boring Number: SB-1
Sampling Personnel: A. Culpepper
Date Drilled: 10/3/13
Depth to Groundwater: NA
Total Boring Depth: 10

Depth (ft-bgs)			ORGANIC VAPOR READINGS (ppm)		
To	From	SOIL DESCRIPTION	PID	FID	@ ft. bgs.
0	1	6" organics / topsoil / grass	0.5		
1	2	Orange Red clayey SILT, soft, dry	0.3		
2	3	No Recovery (base soil)	0.1		
3	4		0.6		
4	5		0.8		
5	6	dark grey silty CLAY, moist, soft	1.3		
			[illegible]		
6	7	light grey silty CLAY, moist, soft	0.2		
7	8	" "	0.2		
8	9	" light grey sandy CLAY, fine grained, moist, soft	0.4		
9	10	Orange tan CLAY, moist, soft	0.4		

Notes:
ft. bgs.= Depth in feet below ground surface
PID = Photo-ionization detector (readings in parts per million or ppm)
FID = Flame-ionization detector (readings in parts per million or ppm)
-- = No data or paramter not collected

Groundwater Sample Information (if applicable):

Total Piezometer Depth =
Screen =
Riser =
Date Sample Collected =

SUMMARY OF GEOPROBE BORING

S&ME

Project Name: Spring Hope Dump
Project No.: 1054-11-1019

Boring Number: SB-3/TMW-3
Sampling Personnel: A. Culpepper
Date Drilled: 10/4/13
Depth to Groundwater:
Total Boring Depth: 15'

Depth (ft-bgs)			ORGANIC VAPOR READINGS (ppm)		
To	From	SOIL DESCRIPTION	PID	FID	@ ft. bgs.
0	2	2' Dark brown SILTY SAND w/ organics, soft, dry	0.6		
2	4	Grey / light grey SILT, moist, hard	0.8		
4	6	@ 5' 6" of loose SAND, wet (possible perch H_2O)	1.7		
6	8	Grey / light grey SILTY SAND, soft, moist	0.1		
8	10	Tan / light brown CLAY, Hard, Dry	0.2		
10	15	Saturated SILTY SAND, loose, wet.			
		@ 13' Increase CLAY decrease SAND			

Notes:
ft. bgs.= Depth in feet below ground surface
PID = Photo-ionization detector (readings in parts per million or ppm)
FID = Flame-ionization detector (readings in parts per million or ppm)
-- = No data or paramter not collected

Groundwater Sample Information (if applicable):

Total Piezometer Depth =
Screen =
Riser =
Date Sample Collected =

SUMMARY OF GEOPROBE BORING

S&ME

Project Name: Spring Hope Dump
Project No.: 1054-11-1019

Boring Number: SB-5/TMW-5
Sampling Personnel: A. Culpepper
Date Drilled: 10/4/13
Depth to Groundwater:
Total Boring Depth: 15

Depth (ft-bgs) To	Depth (ft-bgs) From	SOIL DESCRIPTION	ORGANIC VAPOR READINGS (ppm) PID	FID	@ ft. bgs.
0	2	2' Dark brown SILTY SAND w/ organics, soft, dry	0.1		
2	4	Grey / light grey SILT, moist hard	0.2		
4	6	4-5' 1' of loose SAND, wet (possible perched H2O)	1.9		
6	8	Grey / light grey course SAND, soft moist	0.5		
		7-8 decrease sand, Increase SILT			
8	10	Tan / light brown CLAY, Hard, Dry	0.2		
10	15	Tan / light brown CLAY to 13'			
		13'-15' course SAND, Grey, soft, saturated			

Notes:
ft. bgs.= Depth in feet below ground surface
PID = Photo-ionization detector (readings in parts per million or ppm)
FID = Flame-ionization detector (readings in parts per million or ppm)
-- = No data or paramter not collected

Groundwater Sample Information (if applicable):

Total Piezometer Depth =
Screen =
Riser =
Date Sample Collected =

SUMMARY OF GEOPROBE BORING

S&ME

Project Name: Spring Hope Pump
Project No.: 1054.17-1017

Boring Number: SB-4
Sampling Personnel: A. Culpepper
Date Drilled: 10/4/13
Depth to Groundwater:
Total Boring Depth: 5'

Depth (ft-bgs)			ORGANIC VAPOR READINGS (ppm)		
To	From	SOIL DESCRIPTION	PID	FID	@ ft. bgs.
0	2	2' Dark brown SILTY SAND w/organics, soft, dry			
2	4	Grey / light grey SILT, moist, hard			
4	5	Saturated loose course SAND, light grey, wet			
		hole caving in can not go deeper			

Notes:
ft. bgs.= Depth in feet below ground surface
PID = Photo-ionization detector (readings in parts per million or ppm)
FID = Flame-ionization detector (readings in parts per million or ppm)
-- = No data or paramter not collected

Groundwater Sample Information (if applicable):

Total Piezometer Depth =
Screen =
Riser =
Date Sample Collected =

SUMMARY OF GEOPROBE BORING

S&ME

Project Name: Spring Hope Dump
Project No.: 1054-11-1019

Boring Number: SB-2 (TMW-2)
Sampling Personnel: A. Culpepper
Date Drilled: 10/4/13
Depth to Groundwater: 2'
Total Boring Depth: 5'

Depth (ft-bgs)			ORGANIC VAPOR READINGS (ppm)		
To	From	SOIL DESCRIPTION	PID	FID	@ ft. bgs.
0	2	Dark Brown SILT, soft, dry	0.3		
2	4	Grey tan silty SAND, soft, wet	NA		
4	5	course tan SAND, soft/loose, wet.	NA		

Notes:
ft. bgs.= Depth in feet below ground surface
PID = Photo-ionization detector (readings in parts per million or ppm)
FID = Flame-ionization detector (readings in parts per million or ppm)
-- = No data or paramter not collected

Groundwater Sample Information (if applicable):

Total Piezometer Depth =
Screen =
Riser =
Date Sample Collected =

S&ME, Inc. Groundwater Sampling Form

Client:	DWM-IHSB	Task Order:	452DP-5
Site Name:	Spring Hope Dump		
Site Address:	NC 561 - Spring Hope, NC		

Wind Speed: 5 mph Direction From: South East
Temperature °F Low: High: 66°F
Cloud Cover: 100 % Rain: 30% chance

Well ID / Diameter	TMW-3	TMW-2	TMW-7	TMW-5	TMW-1
Collection Order	1	2	3	4	5
Total Well Depth (ft)					
Depth to Water (ft)	4.40	4.36	10.49	4.71	10.27
Water Column (ft)					
Well Volume (X3)					
Volume Purged (gal)					
Purge Time Interval					
pH	v1 6.66 v4 6.61	v1 6.44 v4 7.02	v1 8.10 v4 6.30	v1 5.97 v4 5.94	v1 6.19 v4 6.90
	v2 6.51 v5 6.72	v2 6.81 v5 7.02	v2 7.56 v5 6.01	v2 5.86 v5 6.06	v2 6.78 v5
	v3 6.58 v6 6.77	v3 6.91 v6 7.04	v3 7.28 v6 5.96	v3 5.88 v6 6.10	v3 6.86 v6
Temp. °C	v1 18.5 v4 18.3	v1 17.4 v4 18.0	v1 17.8 v4 17.6	v1 18.2 v4 18.5	v1 18.2 v4 18.3
	v2 19.0 v5 18.1	v2 18.4 v5 18.1	v2 17.8 v5 17.6	v2 18.5 v5 18.4	v2 18.3 v5
	v3 18.4 v6 18.0	v3 18.4 v6 17.9	v3 ~~17.5~~ v6 17.6	v3 18.4 v6 18.3	v3 18.3 v6 ~~1114~~
Specific Conductivity (uS/cm)	v1 326 v4 182	v1 651 v4 668	v1 55 v4 34	v1 105 v4 80	v1 1258 v4 1114
	v2 224 v5 152	v2 658 v5 654	v2 44 v5 39	v2 105 v5 69	v2 1180 v5
	v3 168 v6 155	v3 664 v6 660	v3 46 v6 32	v3 78 v6 75	v3 1025 v6
Turbidty (NTU)	v1 13.9 v4 4.40	v1 13.6 v4 15.8	v1 13.2 v4 2.46	v1 20.5 v4 31.1	v1 4.87 v4 3.60
	v2 1.83 v5 14.6	v2 9.82 v5 7.45	v2 5.34 v5 3.02	v2 25.1 v5 22.4	v2 3.71 v5
	v3 2.98 v6 10.33	v3 15.7 v6 6.08	v3 3.08 v6 2.35	v3 49.8 v6 16.8	v3 2.47 v6
Purge Rate	In. Fin.	In. Fin.	In. Fin.	In. Fin.	In. Fin.
Final Dissolved O_2	mg/L °C	mg/L °C	mg/L °C	mg/L °C	mg/L °C
Well Condition	Temp				
Date/Time Collected	10/11/13 1100	10/11/13 1235	10/11/13 1340	10/11/13 1540	10/11/13 1640
Field Calibration	Date/Time: 10/11/13 0930	Date/Time: 10/11/13 0930	Date/Time: ~~10/11/13~~	Date/Time:	Date/Time:
	pH 7=6.97	pH 4=4.11	pH	pH	pH
	C 1413=1413	C	C	C	C
	DO	DO	DO	DO	DO
	Tur.	Tur.	Tur.	Tur.	Tur.
Preservative					
Sampler's Name:					

Comments:

Equipment Blank Collected @ 1620

Dup taken from TMW-7

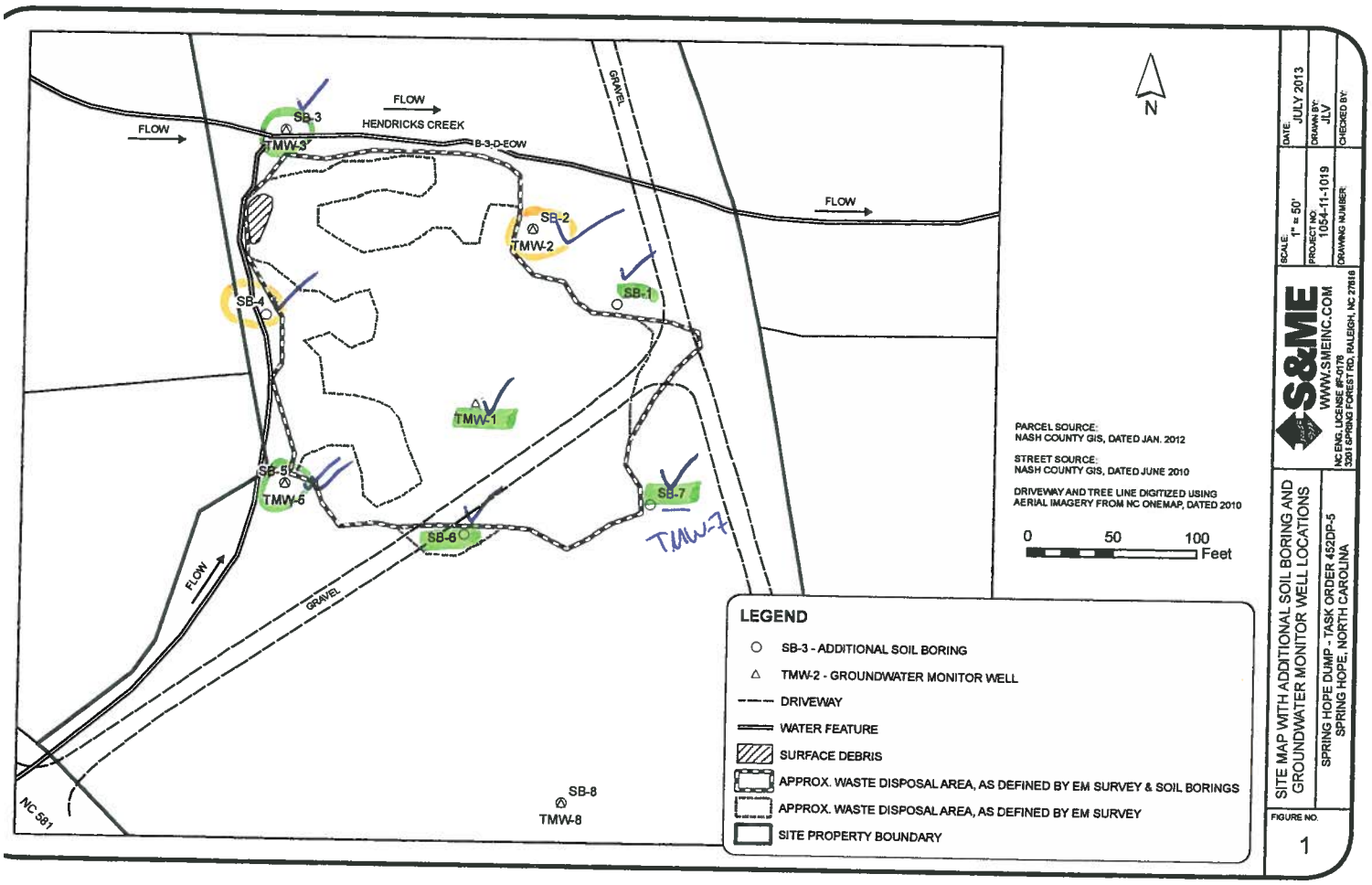
Purging from top of H2O column

Well Dia.(in)	Gal/ft
1.25	0.064
2	0.163
4	0.653
8	2.611
10	4.08

~~Well TW~~ TMW-1 Went dry, only able to get 4 readings.

Well Vol. (gal.) = 3.141(dia.(ft)/2)^2 X Water Col. X 7.48 gal/ft^3

Only 1/2 a Liter in Amber Jar cause well


FLOW
HENDRICKS CREEK
B-3-D-EOW
FLOW
FLOW
GRAVEL
SB-3
TMW-3
SB-2
TMW-2
SB-1
SB-4
TMW-1
SB-5
TMW-5
SB-6
SB-7
TMW-7
FLOW
GRAVEL
NC 581
SB-8
TMW-8
N
PARCEL SOURCE:
NASH COUNTY GIS, DATED JAN. 2012
STREET SOURCE:
NASH COUNTY GIS, DATED JUNE 2010
DRIVEWAY AND TREE LINE DIGITIZED USING
AERIAL IMAGERY FROM NC ONEMAP, DATED 2010
0 50 100 Feet
LEGEND
SB-3 - ADDITIONAL SOIL BORING
TMW-2 - GROUNDWATER MONITOR WELL
DRIVEWAY
WATER FEATURE
SURFACE DEBRIS
APPROX. WASTE DISPOSAL AREA, AS DEFINED BY EM SURVEY & SOIL BORINGS
APPROX. WASTE DISPOSAL AREA, AS DEFINED BY EM SURVEY
SITE PROPERTY BOUNDARY
DATE: JULY 2013
DRAWN BY: JLV
CHECKED BY:
SCALE: 1" = 50'
PROJECT NO. 1054-11-1019
DRAWING NUMBER:
S&ME
WWW.SMEINC.COM
NC ENG. LICENSE #F-0176
3201 SPRING FOREST RD, RALEIGH, NC 27616
SITE MAP WITH ADDITIONAL SOIL BORING AND GROUNDWATER MONITOR WELL LOCATIONS
SPRING HOPE DUMP - TASK ORDER 452DP-5
SPRING HOPE, NORTH CAROLINA
FIGURE NO.
1

Appendix IV

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

Monday, October 28, 2013
S&ME, Inc. (SM001)
Attn: Gerald Paul
3201 Spring Forest Road
Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-11-1019, Project Name/Desc: Spring Hope Dump
ENCO Workorder(s): C312833

Dear Gerald Paul,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, October 11, 2013.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

PROJECT NARRATIVE

Client: S&ME, Inc. (SM001)
Project: Spring Hope Dump

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

All acronyms, data flags and notes are defined on page 47 of this report with the exception of MDL (Method Detection Limit) and PQL (Practical Quantitation Limit). The MDL is a statistical value that represents the minimum level at which the analyte can be detected with 99% confidence. The PQL (or MRL) is the lowest point of the calibration curve. ug/L = micrograms/liter, mg/L = milligrams/liter, RPD = Relative Percent Difference, DF = Dilution Factor, % Rec = Percent Recovery, EPA = United States Environmental Protection Agency and N = Tentatively Identified Compound (TIC).

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: TMW-1 **Lab ID: C312833-01** **Sampled: 10/11/13 16:40** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/08/13		10/16/13	14:55	10/16/13 16:39
EPA 353.2	10/13/13 16:40		10/11/13	19:02	10/11/13 19:02
EPA 353.2	11/08/13		10/17/13	08:00	10/17/13 10:54
EPA 353.2	07/06/16		10/21/13	10:21	10/21/13 10:28
EPA 6020A	10/14/13	04/12/14	10/14/13	09:44	10/23/13 11:10
EPA 7470A	11/08/13		10/15/13	10:02	10/16/13 16:34
EPA 8260B	10/25/13		10/24/13	14:11	10/24/13 21:04
EPA 8270D	10/18/13	11/25/13	10/16/13	09:43	10/17/13 15:35

Client ID: TMW-1 **Lab ID: C312833-01RE1** **Sampled: 10/11/13 16:40** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	10/14/13	04/12/14	10/14/13	09:44	10/23/13 13:08

Client ID: TMW-1 **Lab ID: C312833-01RE2** **Sampled: 10/11/13 16:40** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/08/13		10/18/13	07:46	10/18/13 14:32

Client ID: TMW-2 **Lab ID: C312833-02** **Sampled: 10/11/13 12:35** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/08/13		10/18/13	07:46	10/18/13 11:20
EPA 353.2	10/13/13 12:35		10/11/13	19:03	10/11/13 19:03
EPA 353.2	11/08/13		10/17/13	08:00	10/17/13 10:56
EPA 353.2	07/06/16		10/21/13	09:39	10/24/13 12:07
EPA 6020A	10/14/13	04/12/14	10/14/13	09:44	10/23/13 11:34
EPA 7470A	11/08/13		10/15/13	10:02	10/16/13 16:37
EPA 8260B	10/25/13		10/24/13	14:11	10/24/13 21:33
EPA 8270D	10/18/13	11/25/13	10/16/13	09:43	10/17/13 16:02

Client ID: TMW-2 **Lab ID: C312833-02RE1** **Sampled: 10/11/13 12:35** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/08/13		10/21/13	08:17	10/21/13 13:55
EPA 6020A	10/14/13	04/12/14	10/14/13	09:44	10/23/13 13:12

Client ID: TMW-3 **Lab ID: C312833-03** **Sampled: 10/11/13 11:00** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/08/13		10/16/13	14:55	10/16/13 17:13
EPA 350.1	11/08/13		10/18/13	07:46	10/18/13 11:22
EPA 353.2	10/13/13 11:00		10/11/13	19:04	10/11/13 19:04
EPA 353.2	11/08/13		10/17/13	08:00	10/17/13 11:03
EPA 353.2	07/06/16		10/21/13	09:39	10/24/13 12:07
EPA 6020A	10/14/13	04/12/14	10/14/13	09:44	10/23/13 11:38
EPA 7470A	11/08/13		10/15/13	10:02	10/16/13 16:39
EPA 8260B	10/25/13		10/24/13	14:11	10/24/13 22:03
EPA 8270D	10/18/13	11/25/13	10/16/13	09:43	10/17/13 16:30

Client ID: TMW-5 **Lab ID: C312833-04** **Sampled: 10/11/13 15:40** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)
EPA 300.0	11/08/13		10/16/13	14:55	10/16/13 17:31
EPA 350.1	11/08/13		10/18/13	07:46	10/18/13 11:24
EPA 353.2	10/13/13 15:40		10/11/13	19:04	10/11/13 19:04
EPA 353.2	11/08/13		10/17/13	08:00	10/17/13 11:05
EPA 353.2	07/06/16		10/21/13	09:39	10/24/13 12:07
EPA 6020A	10/14/13	04/12/14	10/14/13	09:44	10/23/13 11:42
EPA 7470A	11/08/13		10/15/13	10:02	10/16/13 16:41
EPA 8260B	10/25/13		10/24/13	14:11	10/24/13 22:33
EPA 8270D	10/18/13	11/25/13	10/16/13	09:43	10/17/13 16:58

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: TMW-7 **Lab ID: C312833-05** **Sampled: 10/11/13 13:40** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	11/08/13			10/16/13	14:55	10/16/13	17:48
EPA 350.1	11/08/13			10/18/13	07:46	10/18/13	11:26
EPA 353.2	10/13/13	13:40		10/11/13	19:05	10/11/13	19:05
EPA 353.2	11/08/13			10/17/13	08:00	10/17/13	11:07
EPA 353.2	07/06/16			10/21/13	09:39	10/24/13	12:07
EPA 6020A	10/14/13		04/12/14	10/14/13	09:44	10/23/13	11:55
EPA 7470A	11/08/13			10/15/13	10:02	10/16/13	16:43
EPA 8260B	10/25/13			10/24/13	14:11	10/24/13	23:02
EPA 8270D	10/18/13		11/25/13	10/16/13	09:43	10/17/13	17:26

Client ID: GW-DUP **Lab ID: C312833-06** **Sampled: 10/11/13 11:00** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	11/08/13			10/16/13	14:55	10/16/13	18:05
EPA 350.1	11/08/13			10/18/13	07:46	10/18/13	11:28
EPA 353.2	10/13/13	11:00		10/11/13	19:06	10/11/13	19:06
EPA 353.2	11/08/13			10/17/13	08:00	10/17/13	11:09
EPA 353.2	07/06/16			10/21/13	09:39	10/24/13	12:07
EPA 6020A	10/14/13		04/12/14	10/14/13	09:44	10/23/13	11:59
EPA 7470A	11/08/13			10/15/13	10:02	10/16/13	16:45
EPA 8260B	10/25/13			10/24/13	14:11	10/24/13	23:31
EPA 8270D	10/18/13		11/25/13	10/16/13	09:43	10/17/13	17:54

Client ID: GW-EQ BLK **Lab ID: C312833-07** **Sampled: 10/11/13 16:20** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0	11/08/13			10/16/13	14:55	10/17/13	10:58
EPA 350.1	11/08/13			10/18/13	07:46	10/18/13	11:30
EPA 353.2	10/13/13	16:20		10/11/13	19:07	10/11/13	19:07
EPA 353.2	11/08/13			10/17/13	08:00	10/17/13	11:12
EPA 353.2	07/06/16			10/21/13	09:39	10/24/13	12:07
EPA 6020A	10/14/13		04/12/14	10/14/13	09:44	10/23/13	12:03
EPA 7470A	11/08/13			10/15/13	10:02	10/16/13	16:48
EPA 8260B	10/25/13			10/24/13	14:11	10/25/13	00:00
EPA 8270D	10/18/13		11/25/13	10/16/13	09:43	10/17/13	18:21

Client ID: Trip Blank **Lab ID: C312833-08** **Sampled: 10/11/13 11:00** **Received: 10/11/13 18:15**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B	10/25/13	10/24/13	14:11	10/25/13	00:30

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SAMPLE DETECTION SUMMARY

Client ID: TMW-1 **Lab ID: C312833-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
3 & 4-Methylphenol	21		1.6	10	ug/L	EPA 8270D	
Acetone	12		1.2	5.0	ug/L	EPA 8260B	
Antimony - Total	0.295	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	1.40		0.470	1.00	ug/L	EPA 6020A	
Benzeneacetic acid	18	JN			ug/L	EPA 8270D	
Benzenepropanoic acid	23	JN			ug/L	EPA 8270D	
Chlorobenzene	4.2		0.17	1.0	ug/L	EPA 8260B	
Chromium - Total	1.86		0.450	1.00	ug/L	EPA 6020A	
Copper - Total	2.06		0.100	1.00	ug/L	EPA 6020A	
Cyclohexane, isothiocyanato-	23	JN			ug/L	EPA 8270D	
Lead - Total	0.952	J	0.100	1.00	ug/L	EPA 6020A	
Nickel - Total	17.7		0.100	1.00	ug/L	EPA 6020A	
Nitrate as N	0.082	J	0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.082	J	0.041	0.10	mg/L	EPA 353.2	
Octadecanoic acid	13	JN			ug/L	EPA 8270D	
Selenium - Total	0.990	J	0.910	1.00	ug/L	EPA 6020A	
Sulfate as SO4	18		2.9	5.0	mg/L	EPA 300.0	
Zinc - Total	39.8		0.790	5.00	ug/L	EPA 6020A	

Client ID: TMW-1 **Lab ID: C312833-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Iron - Total	9430	D	600	2500	ug/L	EPA 6020A	
Manganese - Total	14000	BD	19.5	50.0	ug/L	EPA 6020A	

Client ID: TMW-1 **Lab ID: C312833-01RE2**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	19	D	2.3	5.1	mg/L	EPA 350.1	

Client ID: TMW-2 **Lab ID: C312833-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	0.15		0.045	0.10	mg/L	EPA 350.1	
Antimony - Total	0.702	J	0.220	2.00	ug/L	EPA 6020A	
Arsenic - Total	1.19		0.470	1.00	ug/L	EPA 6020A	
Copper - Total	1.92		0.100	1.00	ug/L	EPA 6020A	
Lead - Total	1.13		0.100	1.00	ug/L	EPA 6020A	
Nickel - Total	4.84		0.100	1.00	ug/L	EPA 6020A	
Nitrate as N	0.11		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.11		0.041	0.10	mg/L	EPA 353.2	
Silver - Total	1.94		0.100	1.00	ug/L	EPA 6020A	
Zinc - Total	150		0.790	5.00	ug/L	EPA 6020A	

Client ID: TMW-2 **Lab ID: C312833-02RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Iron - Total	3280	D	120	500	ug/L	EPA 6020A	
Manganese - Total	613	BD	3.90	10.0	ug/L	EPA 6020A	
Sulfate as SO4	94	D	5.8	10	mg/L	EPA 300.0	

Client ID: TMW-3 **Lab ID: C312833-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Copper - Total	0.506	J	0.100	1.00	ug/L	EPA 6020A	
Diethyltoluamide	6.3	JN			ug/L	EPA 8270D	
Iron - Total	184		12.0	50.0	ug/L	EPA 6020A	
Lead - Total	0.524	J	0.100	1.00	ug/L	EPA 6020A	
Manganese - Total	340	B	0.390	1.00	ug/L	EPA 6020A	
Nickel - Total	11.0		0.100	1.00	ug/L	EPA 6020A	
Nitrate as N	0.054	J	0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.054	J	0.041	0.10	mg/L	EPA 353.2	
Silver - Total	2.51		0.100	1.00	ug/L	EPA 6020A	
Sulfate as SO4	4.6	J	2.9	5.0	mg/L	EPA 300.0	
Zinc - Total	33.0		0.790	5.00	ug/L	EPA 6020A	

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SAMPLE DETECTION SUMMARY

Client ID: TMW-5 **Lab ID: C312833-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Copper - Total	0.637	J	0.100	1.00	ug/L	EPA 6020A	
Diethyltoluamide	5.9	JN			ug/L	EPA 8270D	
Ethanol, 2-(2-butoxyethoxy)-	9.1	JN			ug/L	EPA 8270D	
Iron - Total	84.7		12.0	50.0	ug/L	EPA 6020A	
Lead - Total	0.379	J	0.100	1.00	ug/L	EPA 6020A	
Manganese - Total	55.9	B	0.390	1.00	ug/L	EPA 6020A	
Nickel - Total	3.66		0.100	1.00	ug/L	EPA 6020A	
Nitrate as N	0.21		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.21		0.041	0.10	mg/L	EPA 353.2	
Silver - Total	1.39		0.100	1.00	ug/L	EPA 6020A	
Sulfate as SO4	6.7		2.9	5.0	mg/L	EPA 300.0	
Zinc - Total	24.0		0.790	5.00	ug/L	EPA 6020A	

Client ID: TMW-7 **Lab ID: C312833-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Antimony - Total	0.409	J	0.220	2.00	ug/L	EPA 6020A	
Copper - Total	1.20		0.100	1.00	ug/L	EPA 6020A	
Iron - Total	272		12.0	50.0	ug/L	EPA 6020A	
Lead - Total	0.169	J	0.100	1.00	ug/L	EPA 6020A	
Manganese - Total	224	B	0.390	1.00	ug/L	EPA 6020A	
Nickel - Total	13.3		0.100	1.00	ug/L	EPA 6020A	
Nitrate as N	0.15		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.15		0.041	0.10	mg/L	EPA 353.2	
Silver - Total	0.194	J	0.100	1.00	ug/L	EPA 6020A	
Zinc - Total	16.0		0.790	5.00	ug/L	EPA 6020A	

Client ID: GW-DUP **Lab ID: C312833-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Copper - Total	0.735	J	0.100	1.00	ug/L	EPA 6020A	
Iron - Total	276		12.0	50.0	ug/L	EPA 6020A	
Lead - Total	0.121	J	0.100	1.00	ug/L	EPA 6020A	
Manganese - Total	228	B	0.390	1.00	ug/L	EPA 6020A	
Nickel - Total	13.4		0.100	1.00	ug/L	EPA 6020A	
Nitrate as N	0.16		0.025	0.10	mg/L	EPA 353.2	
Nitrate/Nitrite as N	0.16		0.041	0.10	mg/L	EPA 353.2	
Silver - Total	0.122	J	0.100	1.00	ug/L	EPA 6020A	
Zinc - Total	16.2		0.790	5.00	ug/L	EPA 6020A	

Client ID: GW-EQ BLK **Lab ID: C312833-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Copper - Total	0.140	J	0.100	1.00	ug/L	EPA 6020A	
Manganese - Total	0.471	JB	0.390	1.00	ug/L	EPA 6020A	
Nickel - Total	0.157	J	0.100	1.00	ug/L	EPA 6020A	
Zinc - Total	1.51	J	0.790	5.00	ug/L	EPA 6020A	

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ANALYTICAL RESULTS

Description: TMW-1 | **Lab Sample ID:** C312833-01 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 16:40 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Acetone [67-64-1]^	**12**		ug/L	1	1.2	5.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Chlorobenzene [108-90-7]^	**4.2**		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	

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ANALYTICAL RESULTS

Description: TMW-1 | **Lab Sample ID:** C312833-01 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 16:40 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J24029	EPA 8260B	10/24/13 21:04	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*77 %*	*51-122*	*3J24029*	*EPA 8260B*	*10/24/13 21:04*	*MSZ*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*3J24029*	*EPA 8260B*	*10/24/13 21:04*	*MSZ*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*67-127*	*3J24029*	*EPA 8260B*	*10/24/13 21:04*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J24029	EPA 8260B	10/24/13 21:04	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	**21**		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	QV-01
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	

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ANALYTICAL RESULTS

Description: TMW-1 | **Lab Sample ID:** C312833-01 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 16:40 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	QV-01
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 15:35	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*100*	*1*	*100*	*102 %*	*28-130*	*3J16013*	*EPA 8270D*	*10/17/13 15:35*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*80 %*	*49-105*	*3J16013*	*EPA 8270D*	*10/17/13 15:35*	*DFM*	
2-Fluorophenol	*61*	*1*	*100*	*61 %*	*28-95*	*3J16013*	*EPA 8270D*	*10/17/13 15:35*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*75 %*	*50-117*	*3J16013*	*EPA 8270D*	*10/17/13 15:35*	*DFM*	
Phenol-d5	*53*	*1*	*100*	*53 %*	*21-184*	*3J16013*	*EPA 8270D*	*10/17/13 15:35*	*DFM*	
Terphenyl-d14	*46*	*1*	*50.0*	*92 %*	*54-124*	*3J16013*	*EPA 8270D*	*10/17/13 15:35*	*DFM*	

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ANALYTICAL RESULTS

Description: TMW-1 | **Lab Sample ID:** C312833-01 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 16:40 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzeneacetic acid [000103-82-2]	**18**	JN	ug/L	1			3J16013	EPA 8270D	10/17/13 15:35	DFM	
Benzenepropanoic acid [000501-52-0]	**23**	JN	ug/L	1			3J16013	EPA 8270D	10/17/13 15:35	DFM	
Cyclohexane, isothiocyanato- [001122-82-3]	**23**	JN	ug/L	1			3J16013	EPA 8270D	10/17/13 15:35	DFM	
Octadecanoic acid [000057-11-4]	**13**	JN	ug/L	1			3J16013	EPA 8270D	10/17/13 15:35	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	3J15008	EPA 7470A	10/16/13 16:34	T1D	

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**0.295**	J	ug/L	1	0.220	2.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Arsenic [7440-38-2]^	**1.40**		ug/L	1	0.470	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Chromium [7440-47-3]^	**1.86**		ug/L	1	0.450	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Copper [7440-50-8]^	**2.06**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Iron [7439-89-6]^	**9430**	D	ug/L	50	600	2500	3J14007	EPA 6020A	10/23/13 13:08	VLO	
Lead [7439-92-1]^	**0.952**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Manganese [7439-96-5]^	**14000**	BD	ug/L	50	19.5	50.0	3J14007	EPA 6020A	10/23/13 13:08	VLO	
Nickel [7440-02-0]^	**17.7**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Selenium [7782-49-2]^	**0.990**	J	ug/L	1	0.910	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Silver [7440-22-4]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	
Zinc [7440-66-6]^	**39.8**		ug/L	1	0.790	5.00	3J14007	EPA 6020A	10/23/13 11:10	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**19**	D	mg/L	51.43	2.3	5.1	3J18002	EPA 350.1	10/18/13 14:32	c1v	
Nitrate as N [14797-55-8]^	**0.082**	J	mg/L	1	0.025	0.10	3J21011	EPA 353.2	10/21/13 10:28	CV	
Nitrate/Nitrite as N [ECL-0010]^	**0.082**	J	mg/L	1	0.041	0.10	3J17001	EPA 353.2	10/17/13 10:54	C1V	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	3J11001	EPA 353.2	10/11/13 19:02	c1v	
Sulfate as SO4 [14808-79-8]^	**18**		mg/L	1	2.9	5.0	3J16030	EPA 300.0	10/16/13 16:39	AJB	

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ANALYTICAL RESULTS

Description: TMW-2 | **Lab Sample ID:** C312833-02 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 12:35 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	

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ANALYTICAL RESULTS

Description: TMW-2 | **Lab Sample ID:** C312833-02 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 12:35 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J24029	EPA 8260B	10/24/13 21:33	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*76 %*	*51-122*	*3J24029*	*EPA 8260B*	*10/24/13 21:33*	*MSZ*	
Dibromofluoromethane	*41*	*1*	*50.0*	*82 %*	*68-117*	*3J24029*	*EPA 8260B*	*10/24/13 21:33*	*MSZ*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*67-127*	*3J24029*	*EPA 8260B*	*10/24/13 21:33*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J24029	EPA 8260B	10/24/13 21:33	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	QV-01
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	

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ANALYTICAL RESULTS

Description: TMW-2 | **Lab Sample ID:** C312833-02 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 12:35 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	QV-01
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:02	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*89*	*1*	*100*	*89 %*	*28-130*	*3J16013*	*EPA 8270D*	*10/17/13 16:02*	*DFM*	
2-Fluorobiphenyl	*37*	*1*	*50.0*	*74 %*	*49-105*	*3J16013*	*EPA 8270D*	*10/17/13 16:02*	*DFM*	
2-Fluorophenol	*60*	*1*	*100*	*60 %*	*28-95*	*3J16013*	*EPA 8270D*	*10/17/13 16:02*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*50-117*	*3J16013*	*EPA 8270D*	*10/17/13 16:02*	*DFM*	
Phenol-d5	*52*	*1*	*100*	*52 %*	*21-184*	*3J16013*	*EPA 8270D*	*10/17/13 16:02*	*DFM*	
Terphenyl-d14	*47*	*1*	*50.0*	*95 %*	*54-124*	*3J16013*	*EPA 8270D*	*10/17/13 16:02*	*DFM*	

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ANALYTICAL RESULTS

Description: TMW-2 | **Lab Sample ID:** C312833-02 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 12:35 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Tentatively Identified Compounds by Semivolatile GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]^	**0.0**	U	ug/L	1			3J16013	EPA 8270D	10/17/13 16:02	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	3J15008	EPA 7470A	10/16/13 16:37	T1D	

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**0.702**	J	ug/L	1	0.220	2.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Arsenic [7440-38-2]^	**1.19**		ug/L	1	0.470	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Chromium [7440-47-3]^	ND		ug/L	1	0.450	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Copper [7440-50-8]^	**1.92**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Iron [7439-89-6]^	**3280**	D	ug/L	10	120	500	3J14007	EPA 6020A	10/23/13 13:12	VLO	
Lead [7439-92-1]^	**1.13**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Manganese [7439-96-5]^	**613**	BD	ug/L	10	3.90	10.0	3J14007	EPA 6020A	10/23/13 13:12	VLO	
Nickel [7440-02-0]^	**4.84**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Silver [7440-22-4]^	**1.94**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	
Zinc [7440-66-6]^	**150**		ug/L	1	0.790	5.00	3J14007	EPA 6020A	10/23/13 11:34	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	**0.15**		mg/L	1	0.045	0.10	3J18002	EPA 350.1	10/18/13 11:20	c1v	
Nitrate as N [14797-55-8]^	**0.11**		mg/L	1	0.025	0.10	3J21010	EPA 353.2	10/24/13 12:07	CV	
Nitrate/Nitrite as N [ECL-0010]^	**0.11**		mg/L	1	0.041	0.10	3J17001	EPA 353.2	10/17/13 10:56	C1V	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	3J11001	EPA 353.2	10/11/13 19:03	c1v	
Sulfate as SO4 [14808-79-8]^	**94**	D	mg/L	2	5.8	10	3J21002	EPA 300.0	10/21/13 13:55	AJB	

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ANALYTICAL RESULTS

Description: TMW-3 **Lab Sample ID:** C312833-03 **Received:** 10/11/13 18:15

Matrix: Ground Water **Sampled:** 10/11/13 11:00 **Work Order:** C312833

Project: Spring Hope Dump **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	

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ANALYTICAL RESULTS

Description: TMW-3 | **Lab Sample ID:** C312833-03 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 11:00 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J24029	EPA 8260B	10/24/13 22:03	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*3J24029*	*EPA 8260B*	*10/24/13 22:03*	*MSZ*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*3J24029*	*EPA 8260B*	*10/24/13 22:03*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*82 %*	*67-127*	*3J24029*	*EPA 8260B*	*10/24/13 22:03*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J24029	EPA 8260B	10/24/13 22:03	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	QV-01
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	

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ANALYTICAL RESULTS

Description: TMW-3 | **Lab Sample ID:** C312833-03 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 11:00 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	QV-01
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:30	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*98*	*1*	*100*	*98 %*	*28-130*	*3J16013*	*EPA 8270D*	*10/17/13 16:30*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*81 %*	*49-105*	*3J16013*	*EPA 8270D*	*10/17/13 16:30*	*DFM*	
2-Fluorophenol	*66*	*1*	*100*	*66 %*	*28-95*	*3J16013*	*EPA 8270D*	*10/17/13 16:30*	*DFM*	
Nitrobenzene-d5	*40*	*1*	*50.0*	*80 %*	*50-117*	*3J16013*	*EPA 8270D*	*10/17/13 16:30*	*DFM*	
Phenol-d5	*58*	*1*	*100*	*58 %*	*21-184*	*3J16013*	*EPA 8270D*	*10/17/13 16:30*	*DFM*	
Terphenyl-d14	*52*	*1*	*50.0*	*105 %*	*54-124*	*3J16013*	*EPA 8270D*	*10/17/13 16:30*	*DFM*	

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ANALYTICAL RESULTS

Description: TMW-3 | **Lab Sample ID:** C312833-03 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 11:00 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Diethyltoluamide [000134-62-3]	**6.3**	JN	ug/L	1			3J16013	EPA 8270D	10/17/13 16:30	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	3J15008	EPA 7470A	10/16/13 16:39	T1D	

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		ug/L	1	0.220	2.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Arsenic [7440-38-2]^	ND		ug/L	1	0.470	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Chromium [7440-47-3]^	ND		ug/L	1	0.450	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Copper [7440-50-8]^	**0.506**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Iron [7439-89-6]^	**184**		ug/L	1	12.0	50.0	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Lead [7439-92-1]^	**0.524**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Manganese [7439-96-5]^	**340**	B	ug/L	1	0.390	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Nickel [7440-02-0]^	**11.0**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Silver [7440-22-4]^	**2.51**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	
Zinc [7440-66-6]^	**33.0**		ug/L	1	0.790	5.00	3J14007	EPA 6020A	10/23/13 11:38	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	ND		mg/L	1	0.045	0.10	3J18002	EPA 350.1	10/18/13 11:22	c1v	
Nitrate as N [14797-55-8]^	**0.054**	J	mg/L	1	0.025	0.10	3J21010	EPA 353.2	10/24/13 12:07	CV	
Nitrate/Nitrite as N [ECL-0010]^	**0.054**	J	mg/L	1	0.041	0.10	3J17001	EPA 353.2	10/17/13 11:03	C1V	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	3J11001	EPA 353.2	10/11/13 19:04	c1v	
Sulfate as SO4 [14808-79-8]^	**4.6**	J	mg/L	1	2.9	5.0	3J16030	EPA 300.0	10/16/13 17:13	AJB	

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ANALYTICAL RESULTS

Description: TMW-5 | **Lab Sample ID:** C312833-04 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 15:40 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	

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ANALYTICAL RESULTS

Description: TMW-5 | **Lab Sample ID:** C312833-04 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 15:40 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J24029	EPA 8260B	10/24/13 22:33	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*3J24029*	*EPA 8260B*	*10/24/13 22:33*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*85 %*	*68-117*	*3J24029*	*EPA 8260B*	*10/24/13 22:33*	*MSZ*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*67-127*	*3J24029*	*EPA 8260B*	*10/24/13 22:33*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J24029	EPA 8260B	10/24/13 22:33	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	QV-01
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	

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ANALYTICAL RESULTS

Description: TMW-5 | **Lab Sample ID:** C312833-04 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 15:40 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	QV-01
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 16:58	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*90*	*1*	*100*	*90 %*	*28-130*	*3J16013*	*EPA 8270D*	*10/17/13 16:58*	*DFM*	
2-Fluorobiphenyl	*41*	*1*	*50.0*	*82 %*	*49-105*	*3J16013*	*EPA 8270D*	*10/17/13 16:58*	*DFM*	
2-Fluorophenol	*44*	*1*	*100*	*44 %*	*28-95*	*3J16013*	*EPA 8270D*	*10/17/13 16:58*	*DFM*	
Nitrobenzene-d5	*38*	*1*	*50.0*	*76 %*	*50-117*	*3J16013*	*EPA 8270D*	*10/17/13 16:58*	*DFM*	
Phenol-d5	*35*	*1*	*100*	*35 %*	*21-184*	*3J16013*	*EPA 8270D*	*10/17/13 16:58*	*DFM*	
Terphenyl-d14	*50*	*1*	*50.0*	*100 %*	*54-124*	*3J16013*	*EPA 8270D*	*10/17/13 16:58*	*DFM*	

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ANALYTICAL RESULTS

Description: TMW-5 | **Lab Sample ID:** C312833-04 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 15:40 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Diethyltoluamide [000134-62-3]	**5.9**	JN	ug/L	1			3J16013	EPA 8270D	10/17/13 16:58	DFM	
Ethanol, 2-(2-butoxyethoxy)- [000112-34-5]	**9.1**	JN	ug/L	1			3J16013	EPA 8270D	10/17/13 16:58	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	3J15008	EPA 7470A	10/16/13 16:41	T1D	

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		ug/L	1	0.220	2.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Arsenic [7440-38-2]^	ND		ug/L	1	0.470	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Chromium [7440-47-3]^	ND		ug/L	1	0.450	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Copper [7440-50-8]^	**0.637**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Iron [7439-89-6]^	**84.7**		ug/L	1	12.0	50.0	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Lead [7439-92-1]^	**0.379**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Manganese [7439-96-5]^	**55.9**	B	ug/L	1	0.390	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Nickel [7440-02-0]^	**3.66**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Silver [7440-22-4]^	**1.39**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	
Zinc [7440-66-6]^	**24.0**		ug/L	1	0.790	5.00	3J14007	EPA 6020A	10/23/13 11:42	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	ND		mg/L	1	0.045	0.10	3J18002	EPA 350.1	10/18/13 11:24	c1v	
Nitrate as N [14797-55-8]^	**0.21**		mg/L	1	0.025	0.10	3J21010	EPA 353.2	10/24/13 12:07	CV	
Nitrate/Nitrite as N [ECL-0010]^	**0.21**		mg/L	1	0.041	0.10	3J17001	EPA 353.2	10/17/13 11:05	C1V	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	3J11001	EPA 353.2	10/11/13 19:04	c1v	
Sulfate as SO4 [14808-79-8]^	**6.7**		mg/L	1	2.9	5.0	3J16030	EPA 300.0	10/16/13 17:31	AJB	

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ANALYTICAL RESULTS

Description: TMW-7 **Lab Sample ID:** C312833-05 **Received:** 10/11/13 18:15

Matrix: Ground Water **Sampled:** 10/11/13 13:40 **Work Order:** C312833

Project: Spring Hope Dump **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	

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ANALYTICAL RESULTS

Description: TMW-7 | **Lab Sample ID:** C312833-05 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 13:40 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J24029	EPA 8260B	10/24/13 23:02	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*51-122*	*3J24029*	*EPA 8260B*	*10/24/13 23:02*	*MSZ*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*3J24029*	*EPA 8260B*	*10/24/13 23:02*	*MSZ*	
Toluene-d8	*42*	*1*	*50.0*	*83 %*	*67-127*	*3J24029*	*EPA 8260B*	*10/24/13 23:02*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J24029	EPA 8260B	10/24/13 23:02	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	QV-01
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	

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ANALYTICAL RESULTS

Description: TMW-7 | **Lab Sample ID:** C312833-05 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 13:40 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	QV-01
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:26	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*98*	*1*	*100*	*98 %*	*28-130*	*3J16013*	*EPA 8270D*	*10/17/13 17:26*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*89 %*	*49-105*	*3J16013*	*EPA 8270D*	*10/17/13 17:26*	*DFM*	
2-Fluorophenol	*54*	*1*	*100*	*54 %*	*28-95*	*3J16013*	*EPA 8270D*	*10/17/13 17:26*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*50-117*	*3J16013*	*EPA 8270D*	*10/17/13 17:26*	*DFM*	
Phenol-d5	*46*	*1*	*100*	*46 %*	*21-184*	*3J16013*	*EPA 8270D*	*10/17/13 17:26*	*DFM*	
Terphenyl-d14	*53*	*1*	*50.0*	*105 %*	*54-124*	*3J16013*	*EPA 8270D*	*10/17/13 17:26*	*DFM*	

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ANALYTICAL RESULTS

Description: TMW-7	**Lab Sample ID:** C312833-05	**Received:** 10/11/13 18:15
Matrix: Ground Water	**Sampled:** 10/11/13 13:40	**Work Order:** C312833
Project: Spring Hope Dump	**Sampled By:** J WATERS/ B BRYANT	

Tentatively Identified Compounds by Semivolatile GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]^	**0.0**	U	ug/L	1			3J16013	EPA 8270D	10/17/13 17:26	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	3J15008	EPA 7470A	10/16/13 16:43	T1D	

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	**0.409**	J	ug/L	1	0.220	2.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Arsenic [7440-38-2]^	ND		ug/L	1	0.470	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Chromium [7440-47-3]^	ND		ug/L	1	0.450	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Copper [7440-50-8]^	**1.20**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Iron [7439-89-6]^	**272**		ug/L	1	12.0	50.0	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Lead [7439-92-1]^	**0.169**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Manganese [7439-96-5]^	**224**	B	ug/L	1	0.390	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Nickel [7440-02-0]^	**13.3**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Silver [7440-22-4]^	**0.194**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	
Zinc [7440-66-6]^	**16.0**		ug/L	1	0.790	5.00	3J14007	EPA 6020A	10/23/13 11:55	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	ND		mg/L	1	0.045	0.10	3J18002	EPA 350.1	10/18/13 11:26	c1v	
Nitrate as N [14797-55-8]^	**0.15**		mg/L	1	0.025	0.10	3J21010	EPA 353.2	10/24/13 12:07	CV	
Nitrate/Nitrite as N [ECL-0010]^	**0.15**		mg/L	1	0.041	0.10	3J17001	EPA 353.2	10/17/13 11:07	C1V	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	3J11001	EPA 353.2	10/11/13 19:05	c1v	
Sulfate as SO4 [14808-79-8]^	ND		mg/L	1	2.9	5.0	3J16030	EPA 300.0	10/16/13 17:48	AJB	

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ANALYTICAL RESULTS

Description: GW-DUP | **Lab Sample ID:** C312833-06 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 11:00 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	

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ANALYTICAL RESULTS

Description:	GW-DUP	**Lab Sample ID:**	C312833-06	**Received:**	10/11/13 18:15
Matrix:	Ground Water	**Sampled:**	10/11/13 11:00	**Work Order:**	C312833
Project:	Spring Hope Dump	**Sampled By:**	J WATERS/ B BRYANT		

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J24029	EPA 8260B	10/24/13 23:31	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*51-122*	*3J24029*	*EPA 8260B*	*10/24/13 23:31*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*3J24029*	*EPA 8260B*	*10/24/13 23:31*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*83 %*	*67-127*	*3J24029*	*EPA 8260B*	*10/24/13 23:31*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J24029	EPA 8260B	10/24/13 23:31	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	QV-01
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	

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ANALYTICAL RESULTS

Description: GW-DUP | **Lab Sample ID:** C312833-06 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 11:00 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	QV-01
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 17:54	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*89*	*1*	*100*	*89 %*	*28-130*	*3J16013*	*EPA 8270D*	*10/17/13 17:54*	*DFM*	
2-Fluorobiphenyl	*40*	*1*	*50.0*	*80 %*	*49-105*	*3J16013*	*EPA 8270D*	*10/17/13 17:54*	*DFM*	
2-Fluorophenol	*43*	*1*	*100*	*43 %*	*28-95*	*3J16013*	*EPA 8270D*	*10/17/13 17:54*	*DFM*	
Nitrobenzene-d5	*37*	*1*	*50.0*	*74 %*	*50-117*	*3J16013*	*EPA 8270D*	*10/17/13 17:54*	*DFM*	
Phenol-d5	*35*	*1*	*100*	*35 %*	*21-184*	*3J16013*	*EPA 8270D*	*10/17/13 17:54*	*DFM*	
Terphenyl-d14	*51*	*1*	*50.0*	*101 %*	*54-124*	*3J16013*	*EPA 8270D*	*10/17/13 17:54*	*DFM*	

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ANALYTICAL RESULTS

Description: GW-DUP | **Lab Sample ID:** C312833-06 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 11:00 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Tentatively Identified Compounds by Semivolatile GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]^	**0.0**	U	ug/L	1			3J16013	EPA 8270D	10/17/13 17:54	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	3J15008	EPA 7470A	10/16/13 16:45	T1D	

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		ug/L	1	0.220	2.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Arsenic [7440-38-2]^	ND		ug/L	1	0.470	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Chromium [7440-47-3]^	ND		ug/L	1	0.450	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Copper [7440-50-8]^	**0.735**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Iron [7439-89-6]^	**276**		ug/L	1	12.0	50.0	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Lead [7439-92-1]^	**0.121**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Manganese [7439-96-5]^	**228**	B	ug/L	1	0.390	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Nickel [7440-02-0]^	**13.4**		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Silver [7440-22-4]^	**0.122**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	
Zinc [7440-66-6]^	**16.2**		ug/L	1	0.790	5.00	3J14007	EPA 6020A	10/23/13 11:59	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	ND		mg/L	1	0.045	0.10	3J18002	EPA 350.1	10/18/13 11:28	c1v	
Nitrate as N [14797-55-8]^	**0.16**		mg/L	1	0.025	0.10	3J21010	EPA 353.2	10/24/13 12:07	CV	
Nitrate/Nitrite as N [ECL-0010]^	**0.16**		mg/L	1	0.041	0.10	3J17001	EPA 353.2	10/17/13 11:09	C1V	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	3J11001	EPA 353.2	10/11/13 19:06	c1v	
Sulfate as SO4 [14808-79-8]^	ND		mg/L	1	2.9	5.0	3J16030	EPA 300.0	10/16/13 18:05	AJB	

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ANALYTICAL RESULTS

Description: GW-EQ BLK | **Lab Sample ID:** C312833-07 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 16:20 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	

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ANALYTICAL RESULTS

Description: GW-EQ BLK | **Lab Sample ID:** C312833-07 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 16:20 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J24029	EPA 8260B	10/25/13 00:00	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*51-122*	*3J24029*	*EPA 8260B*	*10/25/13 00:00*	*MSZ*	
Dibromofluoromethane	*43*	*1*	*50.0*	*86 %*	*68-117*	*3J24029*	*EPA 8260B*	*10/25/13 00:00*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*67-127*	*3J24029*	*EPA 8260B*	*10/25/13 00:00*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J24029	EPA 8260B	10/25/13 00:00	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		ug/L	1	2.6	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2-Chloronaphthalene [91-58-7]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2-Chlorophenol [95-57-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		ug/L	1	2.9	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2-Methylnaphthalene [91-57-6]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2-Methylphenol [95-48-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2-Nitroaniline [88-74-4]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
2-Nitrophenol [88-75-5]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		ug/L	1	3.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
3-Nitroaniline [99-09-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
4-Chloroaniline [106-47-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
4-Nitroaniline [100-01-6]^	ND		ug/L	1	3.2	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
4-Nitrophenol [100-02-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	QV-01
Acenaphthene [83-32-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Acenaphthylene [208-96-8]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Acetophenone [98-86-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Anthracene [120-12-7]^	ND		ug/L	1	1.6	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	

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ANALYTICAL RESULTS

Description: GW-EQ BLK | **Lab Sample ID:** C312833-07 | **Received:** 10/11/13 18:15

Matrix: Ground Water | **Sampled:** 10/11/13 16:20 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Benzaldehyde [100-52-7]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Benzo(a)anthracene [56-55-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Benzo(a)pyrene [50-32-8]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		ug/L	1	2.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		ug/L	1	1.7	5.0	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Butylbenzylphthalate [85-68-7]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	QV-01
Caprolactam [105-60-2]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Carbazole [86-74-8]^	ND		ug/L	1	2.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Chrysene [218-01-9]^	ND		ug/L	1	2.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		ug/L	1	2.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Dibenzofuran [132-64-9]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Diethylphthalate [84-66-2]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Dimethylphthalate [131-11-3]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Di-n-butylphthalate [84-74-2]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Di-n-octylphthalate [117-84-0]^	ND		ug/L	1	3.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Fluoranthene [206-44-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Fluorene [86-73-7]^	ND		ug/L	1	1.7	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Hexachlorobenzene [118-74-1]^	ND		ug/L	1	1.0	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Hexachlorobutadiene [87-68-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Hexachloroethane [67-72-1]^	ND		ug/L	1	1.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		ug/L	1	2.2	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Isophorone [78-59-1]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Naphthalene [91-20-3]^	ND		ug/L	1	1.3	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Nitrobenzene [98-95-3]^	ND		ug/L	1	1.2	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		ug/L	1	1.5	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Pentachlorophenol [87-86-5]^	ND		ug/L	1	1.8	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Phenanthrene [85-01-8]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Phenol [108-95-2]^	ND		ug/L	1	1.4	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	
Pyrene [129-00-0]^	ND		ug/L	1	2.1	10	3J16013	EPA 8270D	10/17/13 18:21	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*94*	*1*	*100*	*94 %*	*28-130*	*3J16013*	*EPA 8270D*	*10/17/13 18:21*	*DFM*	
2-Fluorobiphenyl	*44*	*1*	*50.0*	*89 %*	*49-105*	*3J16013*	*EPA 8270D*	*10/17/13 18:21*	*DFM*	
2-Fluorophenol	*65*	*1*	*100*	*65 %*	*28-95*	*3J16013*	*EPA 8270D*	*10/17/13 18:21*	*DFM*	
Nitrobenzene-d5	*41*	*1*	*50.0*	*82 %*	*50-117*	*3J16013*	*EPA 8270D*	*10/17/13 18:21*	*DFM*	
Phenol-d5	*56*	*1*	*100*	*56 %*	*21-184*	*3J16013*	*EPA 8270D*	*10/17/13 18:21*	*DFM*	
Terphenyl-d14	*53*	*1*	*50.0*	*105 %*	*54-124*	*3J16013*	*EPA 8270D*	*10/17/13 18:21*	*DFM*	

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ANALYTICAL RESULTS

Description: GW-EQ BLK | **Lab Sample ID:** C312833-07 | **Received:** 10/11/13 18:15
Matrix: Ground Water | **Sampled:** 10/11/13 16:20 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** J WATERS/ B BRYANT

Tentatively Identified Compounds by Semivolatile GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]^	**0.0**	U	ug/L	1			3J16013	EPA 8270D	10/17/13 18:21	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Mercury [7439-97-6]^	ND		ug/L	1	0.170	0.200	3J15008	EPA 7470A	10/16/13 16:48	T1D	

Metals (acid extractable) by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		ug/L	1	0.220	2.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Arsenic [7440-38-2]^	ND		ug/L	1	0.470	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Beryllium [7440-41-7]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Cadmium [7440-43-9]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Chromium [7440-47-3]^	ND		ug/L	1	0.450	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Copper [7440-50-8]^	**0.140**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Iron [7439-89-6]^	ND		ug/L	1	12.0	50.0	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Lead [7439-92-1]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Manganese [7439-96-5]^	**0.471**	JB	ug/L	1	0.390	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Nickel [7440-02-0]^	**0.157**	J	ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Selenium [7782-49-2]^	ND		ug/L	1	0.910	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Silver [7440-22-4]^	ND		ug/L	1	0.100	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Thallium [7440-28-0]^	ND		ug/L	1	0.110	1.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	
Zinc [7440-66-6]^	**1.51**	J	ug/L	1	0.790	5.00	3J14007	EPA 6020A	10/23/13 12:03	VLO	

Classical Chemistry Parameters

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]^	ND		mg/L	1	0.045	0.10	3J18002	EPA 350.1	10/18/13 11:30	c1v	
Nitrate as N [14797-55-8]^	ND		mg/L	1	0.025	0.10	3J21010	EPA 353.2	10/24/13 12:07	CV	
Nitrate/Nitrite as N [ECL-0010]^	ND		mg/L	1	0.041	0.10	3J17001	EPA 353.2	10/17/13 11:12	C1V	
Nitrite as N [14797-65-0]^	ND		mg/L	1	0.017	0.10	3J11001	EPA 353.2	10/11/13 19:07	c1v	
Sulfate as SO4 [14808-79-8]^	ND		mg/L	1	2.9	5.0	3J16030	EPA 300.0	10/17/13 10:58	AJB	

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C312833-08 | **Received:** 10/11/13 18:15

Matrix: Water | **Sampled:** 10/11/13 11:00 | **Work Order:** C312833

Project: Spring Hope Dump | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C312833-08 | **Received:** 10/11/13 18:15
Matrix: Water | **Sampled:** 10/11/13 11:00 | **Work Order:** C312833
Project: Spring Hope Dump | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J24029	EPA 8260B	10/25/13 00:30	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*76 %*	*51-122*	*3J24029*	*EPA 8260B*	*10/25/13 00:30*	*MSZ*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*3J24029*	*EPA 8260B*	*10/25/13 00:30*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*67-127*	*3J24029*	*EPA 8260B*	*10/25/13 00:30*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J24029	EPA 8260B	10/25/13 00:30	MSZ	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J24029 - EPA 5030B_MS

Blank (3J24029-BLK1) Prepared: 10/24/2013 14:11 Analyzed: 10/24/2013 17:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J24029 - EPA 5030B_MS - Continued

Blank (3J24029-BLK1) Continued Prepared: 10/24/2013 14:11 Analyzed: 10/24/2013 17:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*77*	*51-122*			
Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*68-117*			
Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*67-127*			

LCS (3J24029-BS1) Prepared: 10/24/2013 14:11 Analyzed: 10/24/2013 17:37

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0		94	75-133			
Benzene	17		1.0	ug/L	20.0		87	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		100	83-117			
Cyclohexane	16		1.0	ug/L	20.0		79	0-200			
Methyl acetate	19		1.0	ug/L	20.0		97	0-200			
Methyl cyclohexane	21		1.0	ug/L	20.0		103	0-200			
Toluene	18		1.0	ug/L	20.0		92	71-118			
Trichloroethene	19		1.0	ug/L	20.0		93	74-119			
4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*78*	*51-122*			
Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*67-127*			

Matrix Spike (3J24029-MS1) Prepared: 10/24/2013 14:11 Analyzed: 10/24/2013 18:07

Source: C313946-06

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	96	75-133			
Benzene	18		1.0	ug/L	20.0	0.15 U	91	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Cyclohexane	15		1.0	ug/L	20.0	0.36 U	77	0-200			
Methyl acetate	19		1.0	ug/L	20.0	0.51 U	95	0-200			
Methyl cyclohexane	21		1.0	ug/L	20.0	0.54 U	107	0-200			
Toluene	19		1.0	ug/L	20.0	0.14 U	94	71-118			
Trichloroethene	20		1.0	ug/L	20.0	0.15 U	99	74-119			
4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*77*	*51-122*			
Dibromofluoromethane	*40*			*ug/L*	*50.0*		*80*	*68-117*			
Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*67-127*			

Matrix Spike Dup (3J24029-MSD1) Prepared: 10/24/2013 14:11 Analyzed: 10/24/2013 18:37

Source: C313946-06

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	91	75-133	6	20	
Benzene	17		1.0	ug/L	20.0	0.15 U	85	81-134	6	17	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	95	83-117	3	16	
Cyclohexane	15		1.0	ug/L	20.0	0.36 U	74	0-200	3	50	
Methyl acetate	18		1.0	ug/L	20.0	0.51 U	88	0-200	8	50	
Methyl cyclohexane	19		1.0	ug/L	20.0	0.54 U	95	0-200	12	50	
Toluene	18		1.0	ug/L	20.0	0.14 U	92	71-118	2	17	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J24029 - EPA 5030B_MS - Continued

Matrix Spike Dup (3J24029-MSD1) Continued Prepared: 10/24/2013 14:11 Analyzed: 10/24/2013 18:37

Source: C313946-06

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	19		1.0	ug/L	20.0	0.15 U	95	74-119	5	22	
4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*79*	*51-122*			
Dibromofluoromethane	*39*			*ug/L*	*50.0*		*79*	*68-117*			
Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*67-127*			

Tentatively Identified Compounds by Volatile GCMS - Quality Control

Batch 3J24029 - EPA 5030B_MS

Blank (3J24029-BLK1) Prepared: 10/24/2013 14:11 Analyzed: 10/24/2013 17:08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		ug/L							

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J16013 - EPA 3510C_MS

Blank (3J16013-BLK1) Prepared: 10/16/2013 09:43 Analyzed: 10/17/2013 12:21

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	1.5	U	10	ug/L							
1,2,4,5-Tetrachlorobenzene	2.0	U	10	ug/L							
2,3,4,6-Tetrachlorophenol	2.0	U	10	ug/L							
2,4,5-Trichlorophenol	1.0	U	10	ug/L							
2,4,6-Trichlorophenol	1.1	U	10	ug/L							
2,4-Dichlorophenol	1.4	U	10	ug/L							
2,4-Dimethylphenol	1.3	U	10	ug/L							
2,4-Dinitrophenol	2.6	U	10	ug/L							
2,4-Dinitrotoluene	2.4	U	10	ug/L							
2,6-Dinitrotoluene	1.5	U	10	ug/L							
2-Chloronaphthalene	1.0	U	10	ug/L							
2-Chlorophenol	1.2	U	10	ug/L							
2-Methyl-4,6-dinitrophenol	2.9	U	10	ug/L							
2-Methylnaphthalene	1.5	U	10	ug/L							
2-Methylphenol	1.4	U	10	ug/L							
2-Nitroaniline	1.5	U	10	ug/L							
2-Nitrophenol	1.1	U	10	ug/L							
3 & 4-Methylphenol	1.6	U	10	ug/L							
3,3'-Dichlorobenzidine	3.3	U	10	ug/L							
3-Nitroaniline	2.1	U	10	ug/L							
4-Bromophenyl-phenylether	1.0	U	10	ug/L							
4-Chloro-3-methylphenol	1.5	U	10	ug/L							
4-Chloroaniline	1.2	U	10	ug/L							
4-Chlorophenyl-phenylether	1.6	U	10	ug/L							
4-Nitroaniline	3.2	U	10	ug/L							
4-Nitrophenol	2.0	U	10	ug/L							QV-01
Acenaphthene	1.4	U	10	ug/L							
Acenaphthylene	1.2	U	10	ug/L							
Acetophenone	1.3	U	10	ug/L							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J16013 - EPA 3510C_MS - Continued

Blank (3J16013-BLK1) Continued Prepared: 10/16/2013 09:43 Analyzed: 10/17/2013 12:21

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Anthracene	1.6	U	10	ug/L							
Atrazine	1.5	U	10	ug/L							
Benzaldehyde	1.4	U	10	ug/L							
Benzo(a)anthracene	1.3	U	10	ug/L							
Benzo(a)pyrene	1.3	U	10	ug/L							
Benzo(b)fluoranthene	1.0	U	10	ug/L							
Benzo(g,h,i)perylene	2.4	U	10	ug/L							
Benzo(k)fluoranthene	1.3	U	10	ug/L							
Bis(2-chloroethoxy)methane	1.4	U	10	ug/L							
Bis(2-chloroethyl)ether	1.2	U	10	ug/L							
Bis(2-chloroisopropyl)ether	1.3	U	10	ug/L							
Bis(2-ethylhexyl)phthalate	1.7	U	5.0	ug/L							
Butylbenzylphthalate	2.0	U	10	ug/L							QV-01
Caprolactam	1.3	U	10	ug/L							
Carbazole	2.5	U	10	ug/L							
Chrysene	2.0	U	10	ug/L							
Dibenzo(a,h)anthracene	2.3	U	10	ug/L							
Dibenzofuran	1.4	U	10	ug/L							
Diethylphthalate	2.1	U	10	ug/L							
Dimethylphthalate	1.4	U	10	ug/L							
Di-n-butylphthalate	1.5	U	10	ug/L							
Di-n-octylphthalate	3.1	U	10	ug/L							
Fluoranthene	2.1	U	10	ug/L							
Fluorene	1.7	U	10	ug/L							
Hexachlorobenzene	1.0	U	10	ug/L							
Hexachlorobutadiene	1.2	U	10	ug/L							
Hexachlorocyclopentadiene	1.3	U	10	ug/L							
Hexachloroethane	1.1	U	10	ug/L							
Indeno(1,2,3-cd)pyrene	2.2	U	10	ug/L							
Isophorone	1.3	U	10	ug/L							
Naphthalene	1.3	U	10	ug/L							
Nitrobenzene	1.2	U	10	ug/L							
N-Nitroso-di-n-propylamine	1.5	U	10	ug/L							
N-nitrosodiphenylamine/Diphenylamine	2.1	U	10	ug/L							
Pentachlorophenol	1.8	U	10	ug/L							
Phenanthrene	1.4	U	10	ug/L							
Phenol	1.4	U	10	ug/L							
Pyrene	2.1	U	10	ug/L							
2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*100*	*28-130*			
2-Fluorobiphenyl	*46*			*ug/L*	*50.0*		*92*	*49-105*			
2-Fluorophenol	*70*			*ug/L*	*100*		*70*	*28-95*			
Nitrobenzene-d5	*44*			*ug/L*	*50.0*		*88*	*50-117*			
Phenol-d5	*63*			*ug/L*	*100*		*63*	*21-184*			
Terphenyl-d14	*57*			*ug/L*	*50.0*		*113*	*54-124*			

LCS (3J16013-BS1) Prepared: 10/16/2013 09:43 Analyzed: 10/17/2013 12:49

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	44		10	ug/L	50.0		87	62-95			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J16013 - EPA 3510C_MS - Continued

LCS (3J16013-BS1) Continued Prepared: 10/16/2013 09:43 Analyzed: 10/17/2013 12:49

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Chloro-3-methylphenol	48		10	ug/L	50.0		97	62-108			
4-Nitrophenol	36		10	ug/L	50.0		71	21-97			
Acenaphthene	47		10	ug/L	50.0		93	63-101			
N-Nitroso-di-n-propylamine	47		10	ug/L	50.0		93	57-106			
Pentachlorophenol	38		10	ug/L	50.0		77	25-120			
Phenol	30		10	ug/L	50.0		60	31-78			
2,4,6-Tribromophenol	*110*			*ug/L*	*100*		*110*	*42-123*			
2-Fluorobiphenyl	*45*			*ug/L*	*50.0*		*90*	*49-105*			
2-Fluorophenol	*69*			*ug/L*	*100*		*69*	*28-95*			
Nitrobenzene-d5	*43*			*ug/L*	*50.0*		*85*	*50-117*			
Phenol-d5	*61*			*ug/L*	*100*		*61*	*21-184*			
Terphenyl-d14	*50*			*ug/L*	*50.0*		*100*	*54-124*			

Matrix Spike (3J16013-MS1) Prepared: 10/16/2013 09:43 Analyzed: 10/17/2013 13:16

Source: C313524-05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	45		10	ug/L	50.0	1.2 U	89	62-95			
4-Chloro-3-methylphenol	48		10	ug/L	50.0	1.5 U	97	62-108			
4-Nitrophenol	37		10	ug/L	50.0	2.0 U	74	21-97			
Acenaphthene	47		10	ug/L	50.0	1.4 U	94	63-101			
N-Nitroso-di-n-propylamine	47		10	ug/L	50.0	1.5 U	94	57-106			
Pentachlorophenol	40		10	ug/L	50.0	1.8 U	80	25-120			
Phenol	31		10	ug/L	50.0	1.4 U	62	31-78			
2,4,6-Tribromophenol	*110*			*ug/L*	*100*		*108*	*42-123*			
2-Fluorobiphenyl	*45*			*ug/L*	*50.0*		*91*	*49-105*			
2-Fluorophenol	*70*			*ug/L*	*100*		*70*	*28-95*			
Nitrobenzene-d5	*42*			*ug/L*	*50.0*		*84*	*50-117*			
Phenol-d5	*62*			*ug/L*	*100*		*62*	*21-184*			
Terphenyl-d14	*47*			*ug/L*	*50.0*		*94*	*54-124*			

Matrix Spike Dup (3J16013-MSD1) Prepared: 10/16/2013 09:43 Analyzed: 10/17/2013 13:44

Source: C313524-05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	43		10	ug/L	50.0	1.2 U	85	62-95	5	28	
4-Chloro-3-methylphenol	47		10	ug/L	50.0	1.5 U	94	62-108	3	39	
4-Nitrophenol	37		10	ug/L	50.0	2.0 U	73	21-97	2	43	
Acenaphthene	45		10	ug/L	50.0	1.4 U	90	63-101	5	28	
N-Nitroso-di-n-propylamine	46		10	ug/L	50.0	1.5 U	91	57-106	3	34	
Pentachlorophenol	40		10	ug/L	50.0	1.8 U	80	25-120	0.3	49	
Phenol	30		10	ug/L	50.0	1.4 U	61	31-78	2	29	
2,4,6-Tribromophenol	*100*			*ug/L*	*100*		*103*	*42-123*			
2-Fluorobiphenyl	*42*			*ug/L*	*50.0*		*84*	*49-105*			
2-Fluorophenol	*67*			*ug/L*	*100*		*67*	*28-95*			
Nitrobenzene-d5	*39*			*ug/L*	*50.0*		*78*	*50-117*			
Phenol-d5	*60*			*ug/L*	*100*		*60*	*21-184*			
Terphenyl-d14	*46*			*ug/L*	*50.0*		*92*	*54-124*			

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 3J16013 - EPA 3510C_MS

Blank (3J16013-BLK1) Prepared: 10/16/2013 09:43 Analyzed: 10/17/2013 12:21

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		ug/L							

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J15008 - EPA 7470A

Blank (3J15008-BLK1) Prepared: 10/15/2013 10:02 Analyzed: 10/16/2013 15:48

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.170	U	0.200	ug/L							

LCS (3J15008-BS1) Prepared: 10/15/2013 10:02 Analyzed: 10/16/2013 15:50

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.98		0.200	ug/L	5.00		100	80-120			

Matrix Spike (3J15008-MS1) Prepared: 10/15/2013 10:02 Analyzed: 10/16/2013 15:54

Source: C312344-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.12		0.200	ug/L	5.00	0.170 U	102	75-125			

Matrix Spike Dup (3J15008-MSD1) Prepared: 10/15/2013 10:02 Analyzed: 10/16/2013 16:01

Source: C312344-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	5.20		0.200	ug/L	5.00	0.170 U	104	75-125	2	25	

Post Spike (3J15008-PS1) Prepared: 10/15/2013 10:02 Analyzed: 10/16/2013 16:03

Source: C312344-03

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	4.50		0.200	ug/L	5.00	-0.216	94	75-125			

Metals (acid extractable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3J14007 - SM18 3030C

Blank (3J14007-BLK1) Prepared: 10/14/2013 09:44 Analyzed: 10/23/2013 11:14

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Arsenic	0.470	U	1.00	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.100	U	1.00	ug/L							
Chromium	0.450	U	1.00	ug/L							
Copper	0.100	U	1.00	ug/L							
Iron	12.0	U	50.0	ug/L							
Lead	0.100	U	1.00	ug/L							
Manganese	**0.592**	**J**	1.00	ug/L							
Nickel	0.100	U	1.00	ug/L							
Selenium	0.910	U	1.00	ug/L							

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QUALITY CONTROL DATA

Metals (acid extractable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3J14007 - SM18 3030C - Continued

Blank (3J14007-BLK1) Continued Prepared: 10/14/2013 09:44 Analyzed: 10/23/2013 11:14

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Silver	0.100	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							
Zinc	0.790	U	5.00	ug/L							

LCS (3J14007-BS1) Prepared: 10/14/2013 09:44 Analyzed: 10/23/2013 11:05

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	191		2.00	ug/L	200		95	80-120			
Arsenic	186		1.00	ug/L	200		93	80-120			
Beryllium	190		1.00	ug/L	200		95	80-120			
Cadmium	188		1.00	ug/L	200		94	80-120			
Chromium	187		1.00	ug/L	200		93	80-120			
Copper	187		1.00	ug/L	200		94	80-120			
Iron	198		50.0	ug/L	200		99	80-120			
Lead	193		1.00	ug/L	200		96	80-120			
Manganese	191	B	1.00	ug/L	200		96	80-120			
Nickel	187		1.00	ug/L	200		93	80-120			
Selenium	188		1.00	ug/L	200		94	80-120			
Silver	193		1.00	ug/L	200		97	80-120			
Thallium	189		1.00	ug/L	200		95	80-120			
Zinc	193		5.00	ug/L	200		96	80-120			

Matrix Spike (3J14007-MS1) Prepared: 10/14/2013 09:44 Analyzed: 10/23/2013 11:18

Source: C312833-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	210		2.00	ug/L	200	0.295	105	75-125			
Arsenic	198		1.00	ug/L	200	1.40	98	75-125			
Beryllium	159		1.00	ug/L	200	0.100 U	80	75-125			
Cadmium	198		1.00	ug/L	200	0.100 U	99	75-125			
Chromium	199		1.00	ug/L	200	1.86	98	75-125			
Copper	181		1.00	ug/L	200	2.06	89	75-125			
Iron	12400	E	50.0	ug/L	200	11800	319	75-125			QM-16
Lead	173		1.00	ug/L	200	0.952	86	75-125			
Manganese	15700	BE	1.00	ug/L	200	14900	392	75-125			QM-16
Nickel	203		1.00	ug/L	200	17.7	92	75-125			
Selenium	199		1.00	ug/L	200	0.990	99	75-125			
Silver	62.2		1.00	ug/L	200	0.100 U	31	75-125			QM-05
Thallium	171		1.00	ug/L	200	0.110 U	86	75-125			
Zinc	229		5.00	ug/L	200	39.8	95	75-125			

Matrix Spike Dup (3J14007-MSD1) Prepared: 10/14/2013 09:44 Analyzed: 10/23/2013 11:22

Source: C312833-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	210		2.00	ug/L	200	0.295	105	75-125	0.2	20	
Arsenic	203		1.00	ug/L	200	1.40	101	75-125	3	20	
Beryllium	155		1.00	ug/L	200	0.100 U	78	75-125	2	20	
Cadmium	198		1.00	ug/L	200	0.100 U	99	75-125	0.2	20	
Chromium	196		1.00	ug/L	200	1.86	97	75-125	1	20	

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QUALITY CONTROL DATA

Metals (acid extractable) by EPA 6000/7000 Series Methods - Quality Control

Batch 3J14007 - SM18 3030C - Continued

Matrix Spike Dup (3J14007-MSD1) Continued Prepared: 10/14/2013 09:44 Analyzed: 10/23/2013 11:22

Source: C312833-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	179		1.00	ug/L	200	2.06	89	75-125	0.8	20	
Iron	12300	E	50.0	ug/L	200	11800	236	75-125	1	20	QM-16
Lead	177		1.00	ug/L	200	0.952	88	75-125	2	20	
Manganese	15400	BE	1.00	ug/L	200	14900	236	75-125	2	20	QM-16
Nickel	201		1.00	ug/L	200	17.7	92	75-125	0.7	20	
Selenium	203		1.00	ug/L	200	0.990	101	75-125	2	20	
Silver	69.4		1.00	ug/L	200	0.100 U	35	75-125	11	20	QM-05
Thallium	175		1.00	ug/L	200	0.110 U	87	75-125	2	20	
Zinc	229		5.00	ug/L	200	39.8	95	75-125	0.2	20	

Post Spike (3J14007-PS1) Prepared: 10/14/2013 09:44 Analyzed: 10/23/2013 11:26

Source: C312833-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	221		1.87	ug/L	200	0.295	110	80-120			
Arsenic	210		0.935	ug/L	200	1.40	104	80-120			
Beryllium	156		0.935	ug/L	200	0.0400	78	80-120			QM-08
Cadmium	207		0.935	ug/L	200	0.0999	104	80-120			
Chromium	198		0.935	ug/L	200	1.86	98	80-120			
Copper	180		0.935	ug/L	200	2.06	89	80-120			
Iron	11100	E	46.7	ug/L	200	11800	NR	80-120			QM-08
Lead	182		0.935	ug/L	200	0.952	91	80-120			
Manganese	14000	BE	0.935	ug/L	200	14900	NR	80-120			QM-08
Nickel	201		0.935	ug/L	200	17.7	91	80-120			
Selenium	214		0.935	ug/L	200	0.990	107	80-120			
Silver	114		0.935	ug/L	200	0.0673	57	80-120			QM-08
Thallium	182		0.935	ug/L	200	0.0741	91	80-120			
Zinc	231		4.67	ug/L	200	39.8	96	80-120			

Classical Chemistry Parameters - Quality Control

Batch 3J11001 - NO PREP

Blank (3J11001-BLK1) Prepared: 10/11/2013 08:27 Analyzed: 10/11/2013 08:27

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	0.017	U	0.10	mg/L							

LCS (3J11001-BS1) Prepared: 10/11/2013 08:26 Analyzed: 10/11/2013 08:26

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		101	90-110			

Matrix Spike (3J11001-MS1) Prepared: 10/11/2013 08:30 Analyzed: 10/11/2013 08:30

Source: C312339-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1		0.10	mg/L	1.00	0.073	101	90-110			

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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 3J11001 - NO PREP - Continued

Matrix Spike Dup (3J11001-MSD1) Prepared: 10/11/2013 08:31 Analyzed: 10/11/2013 08:31

Source: C312339-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.1		0.10	mg/L	1.00	0.073	100	90-110	0.4	10	

Batch 3J16030 - NO PREP

Blank (3J16030-BLK1) Prepared: 10/16/2013 14:55 Analyzed: 10/16/2013 15:12

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	2.9	U	5.0	mg/L							

LCS (3J16030-BS1) Prepared: 10/16/2013 14:55 Analyzed: 10/16/2013 15:30

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	49		5.0	mg/L	50.0		98	90-110			

Matrix Spike (3J16030-MS1) Prepared: 10/16/2013 14:55 Analyzed: 10/17/2013 15:35

Source: C308492-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	22		5.0	mg/L	20.0	5.3	86	90-110			QM-05

Matrix Spike Dup (3J16030-MSD1) Prepared: 10/16/2013 14:55 Analyzed: 10/17/2013 15:52

Source: C308492-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	23		5.0	mg/L	20.0	5.3	87	90-110	0.7	10	QM-05

Batch 3J17001 - NO PREP

Blank (3J17001-BLK1) Prepared: 10/17/2013 08:00 Analyzed: 10/17/2013 10:21

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.041	U	0.10	mg/L							

LCS (3J17001-BS1) Prepared: 10/17/2013 08:00 Analyzed: 10/17/2013 10:24

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.3		0.10	mg/L	1.25		101	90-110			

Matrix Spike (3J17001-MS1) Prepared: 10/17/2013 08:00 Analyzed: 10/17/2013 10:28

Source: C312070-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.51		0.10	mg/L	0.513	0.041 U	99	90-110			

Matrix Spike Dup (3J17001-MSD1) Prepared: 10/17/2013 08:00 Analyzed: 10/17/2013 10:30

Source: C312070-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.48		0.10	mg/L	0.513	0.041 U	94	90-110	5	10	

Batch 3J18002 - NO PREP

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 3J18002 - NO PREP - Continued

Blank (3J18002-BLK1) Prepared: 10/18/2013 07:46 Analyzed: 10/18/2013 10:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.045	U	0.10	mg/L							

LCS (3J18002-BS1) Prepared: 10/18/2013 07:46 Analyzed: 10/18/2013 10:59

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	1.0		0.10	mg/L	0.997		103	90-110			

Matrix Spike (3J18002-MS1) Prepared: 10/18/2013 07:46 Analyzed: 10/18/2013 11:03

Source: C313115-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.38		0.10	mg/L	0.387	0.045 U	99	90-110			

Matrix Spike Dup (3J18002-MSD1) Prepared: 10/18/2013 07:46 Analyzed: 10/18/2013 11:05

Source: C313115-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.40		0.10	mg/L	0.387	0.045 U	103	90-110	4	10	

Batch 3J21002 - NO PREP

Blank (3J21002-BLK1) Prepared: 10/21/2013 08:17 Analyzed: 10/21/2013 09:18

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	2.9	U	5.0	mg/L							

LCS (3J21002-BS1) Prepared: 10/21/2013 08:17 Analyzed: 10/21/2013 09:36

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	49		5.0	mg/L	50.0		98	90-110			

Matrix Spike (3J21002-MS1) Prepared: 10/21/2013 08:17 Analyzed: 10/21/2013 10:27

Source: C312922-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	24		5.0	mg/L	20.0	6.3	87	90-110			QM-05

Matrix Spike Dup (3J21002-MSD1) Prepared: 10/21/2013 08:17 Analyzed: 10/21/2013 10:45

Source: C312922-02

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	24		5.0	mg/L	20.0	6.3	90	90-110	2	10	

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FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

10775 Central Port Dr. Orlando, FL 32824 (407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111 Jacksonville, FL 32216-6069 (904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct. Cary, NC 27511 (919) 467-3090 Fax (919) 467-3515

Page 1 of 1

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-11-1019
Address: 3201 Spring Forest Road	Project Name/Desc: Spring Hope Dump
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Gerald Paul jpaul@smeinc.com
Sampler(s) Name, Affiliation (Print): J. Waters B. Bryant	Billing Contact: Accounts Payable
Sampler(s) Signature: James C. Waters B. Bryant	Site Location / Time Zone: Spring Hope, NC

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C312833

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2 8260B TICs	8270D TCL SOM01.2 8270D TICs	Ag As Ba Cd Cr Cu Fe Mn Ni Pb Sb Se Tl Zn 3030C	Ammonia 350.1, NOX 353.2	Hg	Nitrate Calc 353.2	Nitrite as N 353.2	Sulfate 300			Sample Comments
	TMW-1	10/11/13	1640	Grab	GW	7	X	X	X	X	X	X	X	X			
	TMW-2		1235		GW	7	X	X	X	X	X	X	X	X			
	TMW-3		1100		GW	7	X	X	X	X	X	X	X	X			
	TMW-5		1540		GW	7	X	X	X	X	X	X	X	X			
	TMW-17		1340		GW	7	X	X	X	X	X	X	X	X			
	GW-DUP				GW	7	X	X	X	X	X	X	X	X			
	GW-EQ BLK		1620		GW	7	X	X	X	X	X	X	X	X			
	~~Trip Blank~~				WA	2	X										
	Trip Blank Not Received 10/14/13																
						51	<--- Total # of Containers										

Sample Kit Prepared By: Buana Heazey	Date/Time: 10/1/13	Relinquished By: James C. Waters	Date/Time: 10/11/13 1815	Received By: [illegible]	Date/Time: 10/11/13 18/15
Comments/Special Reporting Requirements: Trip Blank was Received, but was placed in our Ice Disposal Area, The trip Blank was not noticed until 10/14 And it was out of temp 10/14/13		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Relinquished By:	Date/Time:	Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: CA-1575 C-701 1.7°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

Tuesday, November 19, 2013
S&ME, Inc. (SM001)
Attn: Gerald Paul
3201 Spring Forest Road
Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-11-1019, Project Name/Desc: Spring Hope Dump
ENCO Workorder(s): C312834

Dear Gerald Paul,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Thursday, October 3, 2013.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

PROJECT NARRATIVE

Client: S&ME, Inc. (SM001)
Project: Spring Hope Dump

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

All 6010 Metals analyses were diluted 2X except for samples SB-1 (1-2), SB-7 (1-2), SB-7 (5-6) and SB-DUP-1 which were diluted 4X all due to matrix interference.

A 117X dilution of the 8260 analysis for sample SB-DUP-1 was performed due to the high concentration of the target analyte Acetone in the sample. The dilution was the most concentrated possible from the container provided and the target was not present in the dilution. Acetone from the dilution has been provided in the report.

All 6020 Metals analyses had to be conducted at 20X dilutions due to high concentrations of non-target analytes.

All acronyms, data flags and notes are defined with the exception of MDL (Method Detection Limit) and PQL (Practical Quantitation Limit). The MDL is a statistical value that represents the minimum level at which the analyte can be detected with 99% confidence. The PQL (or MRL) is the lowest point of the calibration curve. ug/L = micrograms/liter, mg/L = milligrams/liter, RPD = Relative Percent Difference, DF = Dilution Factor, % Rec = Percent Recovery, EPA = United States Environmental Protection Agency and N = Tentatively Identified Compound (TIC).

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-1 (1-2) **Lab ID: C312834-01** **Sampled: 10/03/13 15:05** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 12:50
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 11:01
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 13:29
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 17:10
EPA 8270D	10/17/13	11/13/13		10/04/13	09:37	10/08/13 17:57
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 20:27
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 20:27

Client ID: SB-1 (1-2) **Lab ID: C312834-01RE1** **Sampled: 10/03/13 15:05** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:03
EPA 6020A	04/01/14	10/08/13 14:42	10/14/13 11:09

Client ID: SB-1 (5-6) **Lab ID: C312834-02** **Sampled: 10/03/13 15:10** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 11:47
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 13:54
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 17:39
EPA 8270D	10/17/13	11/13/13		10/04/13	09:37	10/08/13 14:08
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 20:44
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 20:44

Client ID: SB-1 (5-6) **Lab ID: C312834-02RE1** **Sampled: 10/03/13 15:10** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)		Prep Date/Time(s)	Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13	10/04/13 10:51	10/04/13 14:08
EPA 6010C	04/01/14		11/07/13 13:19	11/14/13 13:06

Client ID: SB-1 (9-10) **Lab ID: C312834-03** **Sampled: 10/03/13 15:15** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 12:58
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 11:51
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 13:56
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 18:09
EPA 8270D	10/17/13	11/13/13		10/04/13	09:37	10/08/13 14:36
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 21:02
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 21:02

Client ID: SB-1 (9-10) **Lab ID: C312834-03RE1** **Sampled: 10/03/13 15:15** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:08

Client ID: SB-6 (1-2) **Lab ID: C312834-04** **Sampled: 10/03/13 13:45** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 13:00
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 11:55
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 13:58
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 18:38
EPA 8270D	10/17/13	11/13/13		10/04/13	09:37	10/08/13 17:28
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 21:19
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 21:19

Client ID: SB-6 (1-2) **Lab ID: C312834-04RE1** **Sampled: 10/03/13 13:45** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:11

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-6 (5-6) **Lab ID: C312834-05** **Sampled: 10/03/13 13:50** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 13:03
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 11:59
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 14:00
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 19:08
EPA 8270D	10/17/13	11/13/13		10/04/13	09:37	10/08/13 15:05
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 21:37
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 21:37

Client ID: SB-6 (5-6) **Lab ID: C312834-05RE1** **Sampled: 10/03/13 13:50** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:13

Client ID: SB-6 (9-10) **Lab ID: C312834-06** **Sampled: 10/03/13 13:55** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 13:05
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 12:03
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 14:02
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 19:37
EPA 8270D	10/17/13	11/13/13		10/04/13	09:37	10/08/13 15:34
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 21:54
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 21:54

Client ID: SB-6 (9-10) **Lab ID: C312834-06RE1** **Sampled: 10/03/13 13:55** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:15

Client ID: SB-7 (1-2) **Lab ID: C312834-07** **Sampled: 10/03/13 10:15** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 13:11
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 12:07
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 14:05
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 20:07
EPA 8270D	10/17/13	11/13/13		10/04/13	09:37	10/08/13 16:02
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 22:12
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 22:12

Client ID: SB-7 (1-2) **Lab ID: C312834-07RE1** **Sampled: 10/03/13 10:15** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:18

Client ID: SB-7 (5-6) **Lab ID: C312834-08** **Sampled: 10/03/13 10:20** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 13:13
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 12:11
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 13:59
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 14:07
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 20:36
EPA 8270D	10/17/13	11/13/13		10/04/13	09:37	10/08/13 16:31
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 22:29
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 22:29

Client ID: SB-7 (5-6) **Lab ID: C312834-08RE1** **Sampled: 10/03/13 10:20** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:20

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-7 (9-10) **Lab ID: C312834-09** **Sampled: 10/03/13 10:25** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 13:15
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 12:15
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 14:09
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 21:05
EPA 8270D	10/17/13	11/17/13		10/08/13	09:44	10/09/13 13:49
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 22:47
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 22:47

Client ID: SB-7 (9-10) **Lab ID: C312834-09RE1** **Sampled: 10/03/13 10:25** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:23

Client ID: SB-7 (9-10) **Lab ID: C312834-09RE2** **Sampled: 10/03/13 10:25** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 14:20

Client ID: SB-DUP-1 **Lab ID: C312834-10** **Sampled: 10/03/13 10:15** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	10/31/13	11/01/13		10/04/13	10:51	10/04/13 13:17
EPA 6020A	04/01/14			10/08/13	14:42	10/14/13 12:18
EPA 7471B	10/31/13			10/15/13	10:05	10/17/13 14:14
EPA 8260B	10/17/13			10/10/13	12:34	10/10/13 21:35
EPA 8270D	10/17/13	11/17/13		10/08/13	09:44	10/09/13 14:18
EPA 9056A	10/31/13	10/06/13	10:51	10/04/13	10:51	10/04/13 23:04
EPA 9056A	10/31/13	11/01/13		10/04/13	10:51	10/04/13 23:04

Client ID: SB-DUP-1 **Lab ID: C312834-10RE1** **Sampled: 10/03/13 10:15** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/01/14	11/07/13 13:19	11/14/13 13:25
EPA 8260B	10/17/13	10/11/13 00:00	10/11/13 16:33

Client ID: Trip Blank **Lab ID: C312834-11** **Sampled: 10/03/13 10:15** **Received: 10/03/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 8260B	10/17/13	10/07/13 17:14	10/08/13 20:39

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SAMPLE DETECTION SUMMARY

Client ID: SB-1 (1-2) **Lab ID: C312834-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.0080		0.0010	0.0066	mg/kg dry	EPA 8260B	
Acetone	0.052		0.0018	0.0066	mg/kg dry	EPA 8260B	
Ammonia as N	16		0.59	1.3	mg/kg dry	EPA 350.1	
Benzo(a)anthracene	0.33	J	0.037	0.43	mg/kg dry	EPA 8270D	
Benzo(a)pyrene	0.40	J	0.043	0.43	mg/kg dry	EPA 8270D	
Benzo(b)fluoranthene	0.50		0.024	0.43	mg/kg dry	EPA 8270D	
Benzo(g,h,i)perylene	0.17	J	0.062	0.43	mg/kg dry	EPA 8270D	
Benzo(k)fluoranthene	0.21	J	0.043	0.43	mg/kg dry	EPA 8270D	
Benzo[e]pyrene	0.38	JN			mg/kg dry	EPA 8270D	
Carbazole	0.047	J	0.043	0.43	mg/kg dry	EPA 8270D	
Chromium - Total	20.7	JD	14.4	131	mg/kg dry	EPA 6020A	R-01
Chrysene	0.37	J	0.039	0.43	mg/kg dry	EPA 8270D	
Copper - Total	82.7	D	5.77	26.2	mg/kg dry	EPA 6020A	QM-07, R-01
Eicosane, 10-methyl-	0.23	JN			mg/kg dry	EPA 8270D	
Fluoranthene	0.66		0.047	0.43	mg/kg dry	EPA 8270D	
Indeno(1,2,3-cd)pyrene	0.17	J	0.062	0.43	mg/kg dry	EPA 8270D	
Lead - Total	587	D	6.29	131	mg/kg dry	EPA 6020A	QM-07, R-01
Manganese - Total	355	D	7.34	26.2	mg/kg dry	EPA 6020A	QM-07, R-01
Mercury - Total	0.177		0.00905	0.0315	mg/kg dry	EPA 7471B	
Nickel - Total	15.9	JD	6.55	26.2	mg/kg dry	EPA 6020A	R-01
Octacosane	0.55	JN			mg/kg dry	EPA 8270D	
Octadecane	0.32	JN			mg/kg dry	EPA 8270D	
Phenanthrene	0.25	J	0.035	0.43	mg/kg dry	EPA 8270D	
Pyrene	0.57		0.050	0.43	mg/kg dry	EPA 8270D	
Sulfate as SO4	130		38	66	mg/kg dry	EPA 9056A	
Tridecane, 7-hexyl-	0.18	JN			mg/kg dry	EPA 8270D	
Tritetracontane	0.27	JN			mg/kg dry	EPA 8270D	
Zinc - Total	1090	D	34.1	131	mg/kg dry	EPA 6020A	1-07, QM-11, R-

Client ID: SB-1 (1-2) **Lab ID: C312834-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	12.5	D	0.524	2.62	mg/kg dry	EPA 6010C	
Beryllium - Total	0.167	JD	0.0629	0.262	mg/kg dry	EPA 6010C	
Cadmium - Total	1.07	D	0.0503	0.262	mg/kg dry	EPA 6010C	
Chromium - Total	15.3	D	0.524	2.62	mg/kg dry	EPA 6010C	
Copper - Total	85.5	D	0.996	2.62	mg/kg dry	EPA 6010C	
Iron - Total	32000	BD	2.52	13.1	mg/kg dry	EPA 6010C	
Iron - Total	50500	D	111	328	mg/kg dry	EPA 6020A	R-01
Lead - Total	319	D	0.629	2.62	mg/kg dry	EPA 6010C	
Manganese - Total	204	D	0.524	2.62	mg/kg dry	EPA 6010C	
Nickel - Total	11.1	JD	1.89	13.1	mg/kg dry	EPA 6010C	
Silver - Total	1.51	JD	0.524	2.62	mg/kg dry	EPA 6010C	
Zinc - Total	785	D	5.77	13.1	mg/kg dry	EPA 6010C	

Client ID: SB-1 (5-6) **Lab ID: C312834-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1-Nonadecene	0.72	JN			mg/kg dry	EPA 8270D	
2-Butanone	0.013		0.0008	0.0050	mg/kg dry	EPA 8260B	
5-Eicosene, (E)-	0.35	JN			mg/kg dry	EPA 8270D	
Acetone	0.076		0.0014	0.0050	mg/kg dry	EPA 8260B	
Carbon disulfide	0.0005	J	0.0004	0.0050	mg/kg dry	EPA 8260B	
Iron - Total	5550	D	45.0	132	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0759		0.00913	0.0318	mg/kg dry	EPA 7471B	

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SAMPLE DETECTION SUMMARY

Client ID: SB-1 (5-6) **Lab ID: C312834-02RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	35	D	1.2	2.6	mg/kg dry	EPA 350.1	
Arsenic - Total	2.55	D	0.265	1.32	mg/kg dry	EPA 6010C	
Beryllium - Total	0.183	D	0.0318	0.132	mg/kg dry	EPA 6010C	
Chromium - Total	9.36	D	0.265	1.32	mg/kg dry	EPA 6010C	
Copper - Total	6.20	D	0.503	1.32	mg/kg dry	EPA 6010C	
Iron - Total	12000	BD	1.27	6.62	mg/kg dry	EPA 6010C	
Lead - Total	22.7	D	0.318	1.32	mg/kg dry	EPA 6010C	
Manganese - Total	44.7	D	0.265	1.32	mg/kg dry	EPA 6010C	
Nickel - Total	1.55	JD	0.953	6.62	mg/kg dry	EPA 6010C	
Silver - Total	0.711	JD	0.265	1.32	mg/kg dry	EPA 6010C	
Zinc - Total	28.2	D	2.91	6.62	mg/kg dry	EPA 6010C	

Client ID: SB-1 (9-10) **Lab ID: C312834-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
2-Butanone	0.0019	J	0.0012	0.0075	mg/kg dry	EPA 8260B	
Acetone	0.013		0.0021	0.0075	mg/kg dry	EPA 8260B	
Ammonia as N	11		0.67	1.5	mg/kg dry	EPA 350.1	
Carbon disulfide	0.0008	J	0.0006	0.0075	mg/kg dry	EPA 8260B	
Chromium - Total	109	JD	16.4	150	mg/kg dry	EPA 6020A	R-01
Copper - Total	47.2	D	6.58	29.9	mg/kg dry	EPA 6020A	R-01
Erucylamide	0.61	JN			mg/kg dry	EPA 8270D	
Iron - Total	21700	D	50.8	150	mg/kg dry	EPA 6020A	R-01
Manganese - Total	59.6	D	8.37	29.9	mg/kg dry	EPA 6020A	R-01
n-Hexadecanoic acid	0.38	JN			mg/kg dry	EPA 8270D	
Nitrate as N	3.4	J	3.1	15	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.32	JN			mg/kg dry	EPA 8270D	

Client ID: SB-1 (9-10) **Lab ID: C312834-03RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	1.96	D	0.299	1.50	mg/kg dry	EPA 6010C	
Beryllium - Total	0.165	D	0.0359	0.150	mg/kg dry	EPA 6010C	
Chromium - Total	19.5	D	0.299	1.50	mg/kg dry	EPA 6010C	
Copper - Total	10.6	D	0.568	1.50	mg/kg dry	EPA 6010C	
Iron - Total	5230	BD	1.44	7.48	mg/kg dry	EPA 6010C	
Lead - Total	3.07	D	0.359	1.50	mg/kg dry	EPA 6010C	
Manganese - Total	11.1	D	0.299	1.50	mg/kg dry	EPA 6010C	
Nickel - Total	3.36	JD	1.08	7.48	mg/kg dry	EPA 6010C	
Silver - Total	0.323	JD	0.299	1.50	mg/kg dry	EPA 6010C	
Zinc - Total	14.0	D	3.29	7.48	mg/kg dry	EPA 6010C	

Client ID: SB-6 (1-2) **Lab ID: C312834-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	1.2	J	0.59	1.3	mg/kg dry	EPA 350.1	
Arsenic - Total	15.2	JD	13.3	26.2	mg/kg dry	EPA 6020A	R-01
Erucylamide	2.8	JN			mg/kg dry	EPA 8270D	
Iron - Total	12300	D	44.5	131	mg/kg dry	EPA 6020A	R-01
Lead - Total	13.3	JD	6.28	131	mg/kg dry	EPA 6020A	R-01
Manganese - Total	30.8	D	7.32	26.2	mg/kg dry	EPA 6020A	R-01
n-Hexadecanoic acid	0.25	JN			mg/kg dry	EPA 8270D	
Octadecanoic acid	0.24	JN			mg/kg dry	EPA 8270D	
Sulfate as SO4	65		38	65	mg/kg dry	EPA 9056A	

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SAMPLE DETECTION SUMMARY

Client ID: SB-6 (1-2) **Lab ID: C312834-04RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	38.6	D	0.262	1.31	mg/kg dry	EPA 6010C	
Beryllium - Total	0.123	JD	0.0314	0.131	mg/kg dry	EPA 6010C	
Chromium - Total	4.10	D	0.262	1.31	mg/kg dry	EPA 6010C	
Copper - Total	10.8	D	0.497	1.31	mg/kg dry	EPA 6010C	
Iron - Total	18300	BD	1.26	6.54	mg/kg dry	EPA 6010C	
Lead - Total	59.4	D	0.314	1.31	mg/kg dry	EPA 6010C	
Manganese - Total	36.8	D	0.262	1.31	mg/kg dry	EPA 6010C	
Silver - Total	0.414	JD	0.262	1.31	mg/kg dry	EPA 6010C	
Zinc - Total	69.7	D	2.88	6.54	mg/kg dry	EPA 6010C	

Client ID: SB-6 (5-6) **Lab ID: C312834-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Iron - Total	9390	D	47.9	141	mg/kg dry	EPA 6020A	R-01
Lead - Total	10.3	JD	6.76	141	mg/kg dry	EPA 6020A	R-01
Manganese - Total	12.5	JD	7.89	28.2	mg/kg dry	EPA 6020A	R-01
n-Hexadecanoic acid	0.29	JN			mg/kg dry	EPA 8270D	
Octadecanoic acid	0.27	JN			mg/kg dry	EPA 8270D	
Sulfate as SO4	57	J	41	70	mg/kg dry	EPA 9056A	

Client ID: SB-6 (5-6) **Lab ID: C312834-05RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	10.3	D	0.282	1.41	mg/kg dry	EPA 6010C	
Beryllium - Total	0.0588	JD	0.0338	0.141	mg/kg dry	EPA 6010C	
Chromium - Total	0.444	JD	0.282	1.41	mg/kg dry	EPA 6010C	
Copper - Total	3.18	D	0.535	1.41	mg/kg dry	EPA 6010C	
Iron - Total	8360	BD	1.35	7.04	mg/kg dry	EPA 6010C	
Lead - Total	9.88	D	0.338	1.41	mg/kg dry	EPA 6010C	
Manganese - Total	5.48	D	0.282	1.41	mg/kg dry	EPA 6010C	
Thallium - Total	0.310	JD	0.282	1.41	mg/kg dry	EPA 6010C	

Client ID: SB-6 (9-10) **Lab ID: C312834-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Copper - Total	6.78	JD	5.98	27.2	mg/kg dry	EPA 6020A	R-01
Iron - Total	11300	D	46.2	136	mg/kg dry	EPA 6020A	R-01
Lead - Total	13.9	JD	6.53	136	mg/kg dry	EPA 6020A	R-01
n-Hexadecanoic acid	0.23	JN			mg/kg dry	EPA 8270D	
Octadecanoic acid	0.21	JN			mg/kg dry	EPA 8270D	

Client ID: SB-6 (9-10) **Lab ID: C312834-06RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	15.1	D	0.272	1.36	mg/kg dry	EPA 6010C	
Beryllium - Total	0.0504	JD	0.0326	0.136	mg/kg dry	EPA 6010C	
Chromium - Total	0.475	JD	0.272	1.36	mg/kg dry	EPA 6010C	
Copper - Total	4.68	D	0.517	1.36	mg/kg dry	EPA 6010C	
Iron - Total	9740	BD	1.31	6.80	mg/kg dry	EPA 6010C	
Lead - Total	15.2	D	0.326	1.36	mg/kg dry	EPA 6010C	
Manganese - Total	10.8	D	0.272	1.36	mg/kg dry	EPA 6010C	
Zinc - Total	4.35	JD	2.99	6.80	mg/kg dry	EPA 6010C	

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SAMPLE DETECTION SUMMARY

Client ID: SB-7 (1-2) **Lab ID: C312834-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
.alpha.-Pinene	0.0094	JN			mg/kg dry	EPA 8260B	
1-Phenanthrenecarboxylic ac...	0.24	JN			mg/kg dry	EPA 8270D	
2-Butanone	0.0070		0.0010	0.0062	mg/kg dry	EPA 8260B	
Acetone	0.13		0.0017	0.0062	mg/kg dry	EPA 8260B	
Ammonia as N	0.61	J	0.56	1.2	mg/kg dry	EPA 350.1	
Chloroform	0.0012		0.0002	0.0012	mg/kg dry	EPA 8260B	
Copper - Total	6.77	JD	5.44	24.7	mg/kg dry	EPA 6020A	R-01
Erucylamide	0.55	JN			mg/kg dry	EPA 8270D	
Iron - Total	21300	D	42.1	124	mg/kg dry	EPA 6020A	R-01
Lead - Total	6.86	JD	5.94	124	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0326		0.00854	0.0297	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.21	JN			mg/kg dry	EPA 8270D	
Octadecanoic acid	0.20	JN			mg/kg dry	EPA 8270D	

Client ID: SB-7 (1-2) **Lab ID: C312834-07RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	7.59	D	0.495	2.47	mg/kg dry	EPA 6010C	
Beryllium - Total	0.233	JD	0.0594	0.247	mg/kg dry	EPA 6010C	
Chromium - Total	0.787	JD	0.495	2.47	mg/kg dry	EPA 6010C	
Copper - Total	9.88	D	0.940	2.47	mg/kg dry	EPA 6010C	
Iron - Total	29000	BD	2.38	12.4	mg/kg dry	EPA 6010C	
Lead - Total	6.91	D	0.594	2.47	mg/kg dry	EPA 6010C	
Manganese - Total	13.0	D	0.495	2.47	mg/kg dry	EPA 6010C	
Silver - Total	0.667	JD	0.495	2.47	mg/kg dry	EPA 6010C	
Thallium - Total	2.28	JD	0.495	2.47	mg/kg dry	EPA 6010C	
Zinc - Total	10.0	JD	5.44	12.4	mg/kg dry	EPA 6010C	

Client ID: SB-7 (5-6) **Lab ID: C312834-08**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1-Phenanthrenecarboxylic ac...	0.23	JN			mg/kg dry	EPA 8270D	
1R-.alpha.-Pinene	0.021	JN			mg/kg dry	EPA 8260B	
Arsenic - Total	13.5	JD	13.1	25.6	mg/kg dry	EPA 6020A	R-01
Chloroform	0.0006	J	0.0002	0.0013	mg/kg dry	EPA 8260B	
Copper - Total	6.26	JD	5.64	25.6	mg/kg dry	EPA 6020A	R-01
Erucylamide	0.53	JN			mg/kg dry	EPA 8270D	
Iron - Total	53600	D	109	320	mg/kg dry	EPA 6020A	R-01
Lead - Total	80.2	JD	6.15	128	mg/kg dry	EPA 6020A	R-01
Manganese - Total	629	D	7.17	25.6	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0234	J	0.00884	0.0307	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.26	JN			mg/kg dry	EPA 8270D	
Octadecanoic acid	0.22	JN			mg/kg dry	EPA 8270D	

Client ID: SB-7 (5-6) **Lab ID: C312834-08RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	19.1	D	0.512	2.56	mg/kg dry	EPA 6010C	
Beryllium - Total	0.194	JD	0.0615	0.256	mg/kg dry	EPA 6010C	
Cadmium - Total	0.0911	JD	0.0492	0.256	mg/kg dry	EPA 6010C	
Chromium - Total	0.623	JD	0.512	2.56	mg/kg dry	EPA 6010C	
Copper - Total	8.10	D	0.973	2.56	mg/kg dry	EPA 6010C	
Iron - Total	29000	BD	2.46	12.8	mg/kg dry	EPA 6010C	
Lead - Total	8.67	D	0.615	2.56	mg/kg dry	EPA 6010C	
Manganese - Total	48.0	D	0.512	2.56	mg/kg dry	EPA 6010C	
Silver - Total	0.786	JD	0.512	2.56	mg/kg dry	EPA 6010C	
Zinc - Total	13.2	D	5.63	12.8	mg/kg dry	EPA 6010C	

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SAMPLE DETECTION SUMMARY

Client ID: SB-7 (9-10) **Lab ID: C312834-09**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
.gamma.-Sitosterol	0.34	JN			mg/kg dry	EPA 8270D	
1R-.alpha.-Pinene	0.061	JN			mg/kg dry	EPA 8260B	
Camphene	0.0023	J			mg/kg dry	EPA 8260B	
Hexadecane	0.20	JN			mg/kg dry	EPA 8270D	
Iron - Total	15500	D	42.2	124	mg/kg dry	EPA 6020A	R-01
Lead - Total	6.78	JD	5.95	124	mg/kg dry	EPA 6020A	R-01
Manganese - Total	110	D	6.94	24.8	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0149	J	0.00855	0.0298	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	1.2	JN			mg/kg dry	EPA 8270D	
Nonadecane	0.21	JN			mg/kg dry	EPA 8270D	
Octadecanoic acid	1.5	JN			mg/kg dry	EPA 8270D	
Sulfate as SO4	53	J	36	62	mg/kg dry	EPA 9056A	

Client ID: SB-7 (9-10) **Lab ID: C312834-09RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	12.3	D	0.248	1.24	mg/kg dry	EPA 6010C	
Beryllium - Total	0.156	D	0.0298	0.124	mg/kg dry	EPA 6010C	
Chromium - Total	1.75	D	0.248	1.24	mg/kg dry	EPA 6010C	
Copper - Total	8.40	D	0.471	1.24	mg/kg dry	EPA 6010C	
Iron - Total	23300	BD	1.19	6.20	mg/kg dry	EPA 6010C	
Lead - Total	12.5	D	0.298	1.24	mg/kg dry	EPA 6010C	
Manganese - Total	212	D	0.248	1.24	mg/kg dry	EPA 6010C	
Silver - Total	0.561	JD	0.248	1.24	mg/kg dry	EPA 6010C	
Zinc - Total	10.9	D	2.73	6.20	mg/kg dry	EPA 6010C	

Client ID: SB-DUP-1 **Lab ID: C312834-10**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
.gamma.-Sitosterol	1.3	JN			mg/kg dry	EPA 8270D	
1-Phenanthrenecarboxylic ac...	0.57	JN			mg/kg dry	EPA 8270D	
1R-.alpha.-Pinene	0.0090	JN			mg/kg dry	EPA 8260B	
2-Butanone	0.036		0.0011	0.0068	mg/kg dry	EPA 8260B	
5-Cholestene-3-ol, 24-methyl-	0.36	JN			mg/kg dry	EPA 8270D	
Acetone	1.1	E	0.0019	0.0068	mg/kg dry	EPA 8260B	
Ammonia as N	0.74	J	0.55	1.2	mg/kg dry	EPA 350.1	
Iron - Total	19800	D	41.6	122	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0414		0.00844	0.0293	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.53	JN			mg/kg dry	EPA 8270D	
Octadecanoic acid	0.41	JN			mg/kg dry	EPA 8270D	
Sulfate as SO4	80		35	61	mg/kg dry	EPA 9056A	

Client ID: SB-DUP-1 **Lab ID: C312834-10RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	14.1	D	0.489	2.45	mg/kg dry	EPA 6010C	
Beryllium - Total	0.146	JD	0.0587	0.245	mg/kg dry	EPA 6010C	
Chromium - Total	3.42	D	0.489	2.45	mg/kg dry	EPA 6010C	
Copper - Total	8.74	D	0.929	2.45	mg/kg dry	EPA 6010C	
Iron - Total	25700	BD	2.35	12.2	mg/kg dry	EPA 6010C	
Lead - Total	6.28	D	0.587	2.45	mg/kg dry	EPA 6010C	
Manganese - Total	9.81	D	0.489	2.45	mg/kg dry	EPA 6010C	
Silver - Total	0.763	JD	0.489	2.45	mg/kg dry	EPA 6010C	
Thallium - Total	2.05	JD	0.489	2.45	mg/kg dry	EPA 6010C	
Zinc - Total	12.1	JD	5.38	12.2	mg/kg dry	EPA 6010C	

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ANALYTICAL RESULTS

Description: SB-1 (1-2)	**Lab Sample ID:** C312834-01	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:05	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 76.28

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0010	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0006	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.017	0.079	3J10027	EPA 8260B	10/10/13 17:10	REF	
2-Butanone [78-93-3]^	**0.0080**		mg/kg dry	1	0.0010	0.0066	3J10027	EPA 8260B	10/10/13 17:10	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0010	0.0066	3J10027	EPA 8260B	10/10/13 17:10	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0066	3J10027	EPA 8260B	10/10/13 17:10	REF	
Acetone [67-64-1]^	**0.052**		mg/kg dry	1	0.0018	0.0066	3J10027	EPA 8260B	10/10/13 17:10	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0006	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0066	3J10027	EPA 8260B	10/10/13 17:10	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0006	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0005	0.0026	3J10027	EPA 8260B	10/10/13 17:10	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0010	0.0026	3J10027	EPA 8260B	10/10/13 17:10	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0013	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	

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ANALYTICAL RESULTS

Description: SB-1 (1-2)	**Lab Sample ID:** C312834-01	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:05	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 76.28

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 17:10	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*37*	*1*	*50.0*	*74 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 17:10*	*REF*	
Dibromofluoromethane	*37*	*1*	*50.0*	*73 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 17:10*	*REF*	
Toluene-d8	*38*	*1*	*50.0*	*77 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 17:10*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 17:10	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.43	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.031	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.056	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.056	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.041	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.033	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.033	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.039	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.041	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.034	0.52	3J03011	EPA 8270D	10/08/13 17:57	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.047	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.034	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.069	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.041	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	QL-02
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.050	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	

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ANALYTICAL RESULTS

Description: SB-1 (1-2)	**Lab Sample ID:** C312834-01	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:05	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 76.28

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.43	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.43	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Benzo(a)anthracene [56-55-3]^	**0.33**	J	mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Benzo(a)pyrene [50-32-8]^	**0.40**	J	mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Benzo(b)fluoranthene [205-99-2]^	**0.50**		mg/kg dry	1	0.024	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Benzo(g,h,i)perylene [191-24-2]^	**0.17**	J	mg/kg dry	1	0.062	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Benzo(k)fluoranthene [207-08-9]^	**0.21**	J	mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.033	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.056	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.031	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.046	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.052	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	QV-01
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.43	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Carbazole [86-74-8]^	**0.047**	J	mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Chrysene [218-01-9]^	**0.37**	J	mg/kg dry	1	0.039	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.067	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.054	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Fluoranthene [206-44-0]^	**0.66**		mg/kg dry	1	0.047	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.038	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.034	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.034	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.051	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.028	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	**0.17**	J	mg/kg dry	1	0.062	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.039	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.034	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.11	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.071	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Phenanthrene [85-01-8]^	**0.25**	J	mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.029	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	QL-02
Pyrene [129-00-0]^	**0.57**		mg/kg dry	1	0.050	0.43	3J03011	EPA 8270D	10/08/13 17:57	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.4*	*1*	*4.37*	*78 %*	*28-130*	*3J03011*	*EPA 8270D*	*10/08/13 17:57*	*DFM*	
2-Fluorobiphenyl	*1.8*	*1*	*2.18*	*82 %*	*49-105*	*3J03011*	*EPA 8270D*	*10/08/13 17:57*	*DFM*	
2-Fluorophenol	*3.2*	*1*	*4.37*	*73 %*	*28-95*	*3J03011*	*EPA 8270D*	*10/08/13 17:57*	*DFM*	
Nitrobenzene-d5	*1.8*	*1*	*2.18*	*83 %*	*50-117*	*3J03011*	*EPA 8270D*	*10/08/13 17:57*	*DFM*	
Phenol-d5	*3.4*	*1*	*4.37*	*79 %*	*21-184*	*3J03011*	*EPA 8270D*	*10/08/13 17:57*	*DFM*	
Terphenyl-d14	*2.0*	*1*	*2.18*	*91 %*	*54-124*	*3J03011*	*EPA 8270D*	*10/08/13 17:57*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-1 (1-2)	**Lab Sample ID:** C312834-01	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:05	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 76.28

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzo[e]pyrene [000192-97-2]	**0.38**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:57	DFM	
Eicosane, 10-methyl- [054833-23-7]	**0.23**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:57	DFM	
Octacosane [000630-02-4]	**0.55**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:57	DFM	
Octadecane [000593-45-3]	**0.32**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:57	DFM	
Tridecane, 7-hexyl- [007225-66-3]	**0.18**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:57	DFM	
Tritetracontane [007098-21-7]	**0.27**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:57	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	4	0.577	5.24	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Arsenic [7440-38-2]^	**12.5**	D	mg/kg dry	4	0.524	2.62	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Beryllium [7440-41-7]^	**0.167**	JD	mg/kg dry	4	0.0629	0.262	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Cadmium [7440-43-9]^	**1.07**	D	mg/kg dry	4	0.0503	0.262	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Chromium [7440-47-3]^	**15.3**	D	mg/kg dry	4	0.524	2.62	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Copper [7440-50-8]^	**85.5**	D	mg/kg dry	4	0.996	2.62	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Iron [7439-89-6]^	**32000**	BD	mg/kg dry	4	2.52	13.1	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Lead [7439-92-1]^	**319**	D	mg/kg dry	4	0.629	2.62	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Manganese [7439-96-5]^	**204**	D	mg/kg dry	4	0.524	2.62	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Mercury [7439-97-6]^	**0.177**		mg/kg dry	1	0.00905	0.0315	3J15010	EPA 7471B	10/17/13 13:29	T1D	
Nickel [7440-02-0]^	**11.1**	JD	mg/kg dry	4	1.89	13.1	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	4	0.524	2.62	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Silver [7440-22-4]^	**1.51**	JD	mg/kg dry	4	0.524	2.62	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	4	0.524	2.62	3K07027	EPA 6010C	11/14/13 13:03	JDH	
Zinc [7440-66-6]^	**785**	D	mg/kg dry	4	5.77	13.1	3K07027	EPA 6010C	11/14/13 13:03	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**16**		mg/kg dry	1	0.59	1.3	3J04010	EPA 350.1	10/04/13 12:50	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.7	13	3J04022	EPA 9056A	10/04/13 20:27	AJB	
Sulfate as SO4 [14808-79-8]	**130**		mg/kg dry	1	38	66	3J04022	EPA 9056A	10/04/13 20:27	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.24	13.1	3J08019	EPA 6020A	10/14/13 11:01	JMA	QM-07, R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	13.4	26.2	3J08019	EPA 6020A	10/14/13 11:01	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.62	52.4	3J08019	EPA 6020A	10/14/13 11:01	JMA	QM-07, R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.41	26.2	3J08019	EPA 6020A	10/14/13 11:01	JMA	QM-07, QM-11, R-01
Chromium [7440-47-3]^	**20.7**	JD	mg/kg dry	20	14.4	131	3J08019	EPA 6020A	10/14/13 11:01	JMA	R-01
Copper [7440-50-8]^	**82.7**	D	mg/kg dry	20	5.77	26.2	3J08019	EPA 6020A	10/14/13 11:01	JMA	QM-07, R-01
Iron [7439-89-6]^	**50500**	D	mg/kg dry	50	111	328	3J08019	EPA 6020A	10/14/13 11:09	JMA	R-01
Lead [7439-92-1]^	**587**	D	mg/kg dry	20	6.29	131	3J08019	EPA 6020A	10/14/13 11:01	JMA	QM-07, R-01

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ANALYTICAL RESULTS

Description:	SB-1 (1-2)	**Lab Sample ID:**	C312834-01	**Received:**	10/03/13 18:30
Matrix:	Soil	**Sampled:**	10/03/13 15:05	**Work Order:**	C312834
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	76.28

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Manganese [7439-96-5]^	**355**	D	mg/kg dry	20	7.34	26.2	3J08019	EPA 6020A	10/14/13 11:01	JMA	QM-07, R-01
Nickel [7440-02-0]^	**15.9**	JD	mg/kg dry	20	6.55	26.2	3J08019	EPA 6020A	10/14/13 11:01	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	23.9	26.2	3J08019	EPA 6020A	10/14/13 11:01	JMA	QM-07, R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.44	13.1	3J08019	EPA 6020A	10/14/13 11:01	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.970	26.2	3J08019	EPA 6020A	10/14/13 11:01	JMA	R-01
Zinc [7440-66-6]^	**1090**	D	mg/kg dry	20	34.1	131	3J08019	EPA 6020A	10/14/13 11:01	JMA	QM-07, QM-11, R-01

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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ANALYTICAL RESULTS

Description: SB-1 (5-6)	**Lab Sample ID:** C312834-02	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:10	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 75.56

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0008	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.013	0.060	3J10027	EPA 8260B	10/10/13 17:39	REF	
2-Butanone [78-93-3]^	**0.013**		mg/kg dry	1	0.0008	0.0050	3J10027	EPA 8260B	10/10/13 17:39	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0008	0.0050	3J10027	EPA 8260B	10/10/13 17:39	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0006	0.0050	3J10027	EPA 8260B	10/10/13 17:39	REF	
Acetone [67-64-1]^	**0.076**		mg/kg dry	1	0.0014	0.0050	3J10027	EPA 8260B	10/10/13 17:39	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Carbon disulfide [75-15-0]^	**0.0005**	J	mg/kg dry	1	0.0004	0.0050	3J10027	EPA 8260B	10/10/13 17:39	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0020	3J10027	EPA 8260B	10/10/13 17:39	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0007	0.0020	3J10027	EPA 8260B	10/10/13 17:39	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0010	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	

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ANALYTICAL RESULTS

Description: SB-1 (5-6)	**Lab Sample ID:** C312834-02	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:10	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 75.56

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0010	3J10027	EPA 8260B	10/10/13 17:39	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*37*	*1*	*50.0*	*74 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 17:39*	*REF*	
Dibromofluoromethane	*36*	*1*	*50.0*	*73 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 17:39*	*REF*	
Toluene-d8	*38*	*1*	*50.0*	*77 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 17:39*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 17:39	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.44	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.036	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.036	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.032	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.057	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.057	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.037	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.041	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.037	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.033	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.037	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.033	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.040	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.041	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.034	0.53	3J03011	EPA 8270D	10/08/13 14:08	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.048	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.036	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.034	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.070	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.041	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	QL-02
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.037	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.037	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.050	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	

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ANALYTICAL RESULTS

Description: SB-1 (5-6)	**Lab Sample ID:** C312834-02	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:10	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 75.56

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.44	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.44	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.037	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.024	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.062	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.033	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.057	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.032	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.046	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.053	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	QV-01
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.44	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.040	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.067	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.036	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.037	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.054	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.048	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.038	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.034	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.034	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.052	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.028	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.062	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.040	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.037	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.034	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.11	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.071	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.044	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.036	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.029	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.050	0.44	3J03011	EPA 8270D	10/08/13 14:08	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*4.1*	*1*	*4.41*	*93 %*	*28-130*	*3J03011*	*EPA 8270D*	*10/08/13 14:08*	*DFM*	
2-Fluorobiphenyl	*2.0*	*1*	*2.21*	*89 %*	*49-105*	*3J03011*	*EPA 8270D*	*10/08/13 14:08*	*DFM*	
2-Fluorophenol	*3.6*	*1*	*4.41*	*81 %*	*28-95*	*3J03011*	*EPA 8270D*	*10/08/13 14:08*	*DFM*	
Nitrobenzene-d5	*1.9*	*1*	*2.21*	*88 %*	*50-117*	*3J03011*	*EPA 8270D*	*10/08/13 14:08*	*DFM*	
Phenol-d5	*3.9*	*1*	*4.41*	*88 %*	*21-184*	*3J03011*	*EPA 8270D*	*10/08/13 14:08*	*DFM*	
Terphenyl-d14	*2.3*	*1*	*2.21*	*104 %*	*54-124*	*3J03011*	*EPA 8270D*	*10/08/13 14:08*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-1 (5-6)	**Lab Sample ID:** C312834-02	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:10	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 75.56

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Nonadecene [018435-45-5]	**0.72**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 14:08	DFM	
5-Eicosene, (E)- [074685-30-6]	**0.35**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 14:08	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.291	2.65	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Arsenic [7440-38-2]^	**2.55**	D	mg/kg dry	2	0.265	1.32	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Beryllium [7440-41-7]^	**0.183**	D	mg/kg dry	2	0.0318	0.132	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0254	0.132	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Chromium [7440-47-3]^	**9.36**	D	mg/kg dry	2	0.265	1.32	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Copper [7440-50-8]^	**6.20**	D	mg/kg dry	2	0.503	1.32	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Iron [7439-89-6]^	**12000**	BD	mg/kg dry	2	1.27	6.62	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Lead [7439-92-1]^	**22.7**	D	mg/kg dry	2	0.318	1.32	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Manganese [7439-96-5]^	**44.7**	D	mg/kg dry	2	0.265	1.32	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Mercury [7439-97-6]^	**0.0759**		mg/kg dry	1	0.00913	0.0318	3J15010	EPA 7471B	10/17/13 13:54	T1D	
Nickel [7440-02-0]^	**1.55**	JD	mg/kg dry	2	0.953	6.62	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.265	1.32	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Silver [7440-22-4]^	**0.711**	JD	mg/kg dry	2	0.265	1.32	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.265	1.32	3K07027	EPA 6010C	11/14/13 13:06	JDH	
Zinc [7440-66-6]^	**28.2**	D	mg/kg dry	2	2.91	6.62	3K07027	EPA 6010C	11/14/13 13:06	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**35**	D	mg/kg dry	2	1.2	2.6	3J04010	EPA 350.1	10/04/13 14:08	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.7	13	3J04022	EPA 9056A	10/04/13 20:44	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	38	66	3J04022	EPA 9056A	10/04/13 20:44	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.29	13.2	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	13.5	26.5	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.65	52.9	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.44	26.5	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	14.6	132	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	5.82	26.5	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Iron [7439-89-6]^	**5550**	D	mg/kg dry	20	45.0	132	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Lead [7439-92-1]^	ND		mg/kg dry	20	6.35	132	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Manganese [7439-96-5]^	ND		mg/kg dry	20	7.41	26.5	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.62	26.5	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	24.1	26.5	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.46	13.2	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.979	26.5	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	34.4	132	3J08019	EPA 6020A	10/14/13 11:47	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-1 (9-10)	**Lab Sample ID:** C312834-03	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 66.88

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0012	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0007	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0006	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.019	0.090	3J10027	EPA 8260B	10/10/13 18:09	REF	
2-Butanone [78-93-3]^	**0.0019**	J	mg/kg dry	1	0.0012	0.0075	3J10027	EPA 8260B	10/10/13 18:09	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0011	0.0075	3J10027	EPA 8260B	10/10/13 18:09	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0009	0.0075	3J10027	EPA 8260B	10/10/13 18:09	REF	
Acetone [67-64-1]^	**0.013**		mg/kg dry	1	0.0021	0.0075	3J10027	EPA 8260B	10/10/13 18:09	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0006	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0007	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0005	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Carbon disulfide [75-15-0]^	**0.0008**	J	mg/kg dry	1	0.0006	0.0075	3J10027	EPA 8260B	10/10/13 18:09	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0005	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0007	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0006	0.0030	3J10027	EPA 8260B	10/10/13 18:09	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0011	0.0030	3J10027	EPA 8260B	10/10/13 18:09	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0015	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0006	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	

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ANALYTICAL RESULTS

Description: SB-1 (9-10)	**Lab Sample ID:** C312834-03	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 66.88

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0006	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0005	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10027	EPA 8260B	10/10/13 18:09	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*77 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 18:09*	*REF*	
Dibromofluoromethane	*38*	*1*	*50.0*	*76 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 18:09*	*REF*	
Toluene-d8	*39*	*1*	*50.0*	*79 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 18:09*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 18:09	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.49	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.040	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.040	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.036	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.064	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.064	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.042	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.046	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.042	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.037	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.042	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.037	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.045	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.046	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.039	0.60	3J03011	EPA 8270D	10/08/13 14:36	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.15	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.054	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.040	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.14	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.039	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.079	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.046	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	QL-02
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.042	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.042	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.057	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	

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ANALYTICAL RESULTS

Description: SB-1 (9-10)	**Lab Sample ID:** C312834-03	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 66.88

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.49	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.49	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.042	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.027	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.070	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.037	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.064	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.036	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.052	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.060	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	QV-01
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.49	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.045	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.076	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.040	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.042	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.061	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.054	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.043	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.039	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.039	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.058	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.031	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.070	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.045	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.042	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.039	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.12	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.081	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.049	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.040	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.033	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.057	0.49	3J03011	EPA 8270D	10/08/13 14:36	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*4.4*	*1*	*4.98*	*87 %*	*28-130*	*3J03011*	*EPA 8270D*	*10/08/13 14:36*	*DFM*	
2-Fluorobiphenyl	*2.2*	*1*	*2.49*	*87 %*	*49-105*	*3J03011*	*EPA 8270D*	*10/08/13 14:36*	*DFM*	
2-Fluorophenol	*4.1*	*1*	*4.98*	*82 %*	*28-95*	*3J03011*	*EPA 8270D*	*10/08/13 14:36*	*DFM*	
Nitrobenzene-d5	*2.3*	*1*	*2.49*	*91 %*	*50-117*	*3J03011*	*EPA 8270D*	*10/08/13 14:36*	*DFM*	
Phenol-d5	*4.5*	*1*	*4.98*	*89 %*	*21-184*	*3J03011*	*EPA 8270D*	*10/08/13 14:36*	*DFM*	
Terphenyl-d14	*2.6*	*1*	*2.49*	*104 %*	*54-124*	*3J03011*	*EPA 8270D*	*10/08/13 14:36*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-1 (9-10)	**Lab Sample ID:** C312834-03	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 15:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 66.88

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Erucylamide [000112-84-5]	**0.61**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 14:36	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.38**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 14:36	DFM	
Octadecanoic acid [000057-11-4]	**0.32**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 14:36	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.329	2.99	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Arsenic [7440-38-2]^	**1.96**	D	mg/kg dry	2	0.299	1.50	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Beryllium [7440-41-7]^	**0.165**	D	mg/kg dry	2	0.0359	0.150	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0287	0.150	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Chromium [7440-47-3]^	**19.5**	D	mg/kg dry	2	0.299	1.50	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Copper [7440-50-8]^	**10.6**	D	mg/kg dry	2	0.568	1.50	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Iron [7439-89-6]^	**5230**	BD	mg/kg dry	2	1.44	7.48	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Lead [7439-92-1]^	**3.07**	D	mg/kg dry	2	0.359	1.50	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Manganese [7439-96-5]^	**11.1**	D	mg/kg dry	2	0.299	1.50	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Mercury [7439-97-6]^	ND		mg/kg dry	1	0.0103	0.0359	3J15010	EPA 7471B	10/17/13 13:56	T1D	
Nickel [7440-02-0]^	**3.36**	JD	mg/kg dry	2	1.08	7.48	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.299	1.50	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Silver [7440-22-4]^	**0.323**	JD	mg/kg dry	2	0.299	1.50	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.299	1.50	3K07027	EPA 6010C	11/14/13 13:08	JDH	
Zinc [7440-66-6]^	**14.0**	D	mg/kg dry	2	3.29	7.48	3K07027	EPA 6010C	11/14/13 13:08	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**11**		mg/kg dry	1	0.67	1.5	3J04010	EPA 350.1	10/04/13 12:58	c1v	
Nitrate as N [14797-55-8]	**3.4**	J	mg/kg dry	1	3.1	15	3J04022	EPA 9056A	10/04/13 21:02	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	43	75	3J04022	EPA 9056A	10/04/13 21:02	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.98	15.0	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	15.3	29.9	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.99	59.8	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.89	29.9	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Chromium [7440-47-3]^	**109**	JD	mg/kg dry	20	16.4	150	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Copper [7440-50-8]^	**47.2**	D	mg/kg dry	20	6.58	29.9	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Iron [7439-89-6]^	**21700**	D	mg/kg dry	20	50.8	150	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Lead [7439-92-1]^	ND		mg/kg dry	20	7.18	150	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Manganese [7439-96-5]^	**59.6**	D	mg/kg dry	20	8.37	29.9	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	7.48	29.9	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	27.2	29.9	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.64	15.0	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	1.11	29.9	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	38.9	150	3J08019	EPA 6020A	10/14/13 11:51	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-6 (1-2)	**Lab Sample ID:** C312834-04	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:45	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 76.46

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.015	0.069	3J10027	EPA 8260B	10/10/13 18:38	REF	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0009	0.0058	3J10027	EPA 8260B	10/10/13 18:38	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0058	3J10027	EPA 8260B	10/10/13 18:38	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0058	3J10027	EPA 8260B	10/10/13 18:38	REF	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0016	0.0058	3J10027	EPA 8260B	10/10/13 18:38	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0058	3J10027	EPA 8260B	10/10/13 18:38	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0023	3J10027	EPA 8260B	10/10/13 18:38	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0023	3J10027	EPA 8260B	10/10/13 18:38	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	

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ANALYTICAL RESULTS

Description: SB-6 (1-2)	**Lab Sample ID:** C312834-04	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:45	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 76.46

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 18:38	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*77 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 18:38*	*REF*	
Dibromofluoromethane	*38*	*1*	*50.0*	*77 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 18:38*	*REF*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 18:38*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 18:38	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.43	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.031	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.056	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.056	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.041	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.033	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.033	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.039	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.041	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.034	0.52	3J03011	EPA 8270D	10/08/13 17:28	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.047	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.034	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.069	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.041	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	QL-02
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.050	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	

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ANALYTICAL RESULTS

Description: SB-6 (1-2)	**Lab Sample ID:** C312834-04	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:45	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 76.46

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.43	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.43	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.024	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.061	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.033	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.056	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.031	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.046	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.052	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	QV-01
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.43	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.039	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.067	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.054	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.047	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.038	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.034	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.034	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.051	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.027	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.061	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.039	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.037	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.034	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.11	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.071	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.043	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.035	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.029	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.050	0.43	3J03011	EPA 8270D	10/08/13 17:28	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*4.0*	*1*	*4.36*	*92 %*	*28-130*	*3J03011*	*EPA 8270D*	*10/08/13 17:28*	*DFM*	
2-Fluorobiphenyl	*1.9*	*1*	*2.18*	*88 %*	*49-105*	*3J03011*	*EPA 8270D*	*10/08/13 17:28*	*DFM*	
2-Fluorophenol	*3.6*	*1*	*4.36*	*82 %*	*28-95*	*3J03011*	*EPA 8270D*	*10/08/13 17:28*	*DFM*	
Nitrobenzene-d5	*1.9*	*1*	*2.18*	*88 %*	*50-117*	*3J03011*	*EPA 8270D*	*10/08/13 17:28*	*DFM*	
Phenol-d5	*3.9*	*1*	*4.36*	*89 %*	*21-184*	*3J03011*	*EPA 8270D*	*10/08/13 17:28*	*DFM*	
Terphenyl-d14	*2.3*	*1*	*2.18*	*106 %*	*54-124*	*3J03011*	*EPA 8270D*	*10/08/13 17:28*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-6 (1-2)	**Lab Sample ID:** C312834-04	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:45	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 76.46

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Erucylamide [000112-84-5]	**2.8**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:28	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.25**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:28	DFM	
Octadecanoic acid [000057-11-4]	**0.24**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 17:28	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.288	2.62	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Arsenic [7440-38-2]^	**38.6**	D	mg/kg dry	2	0.262	1.31	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Beryllium [7440-41-7]^	**0.123**	JD	mg/kg dry	2	0.0314	0.131	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0251	0.131	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Chromium [7440-47-3]^	**4.10**	D	mg/kg dry	2	0.262	1.31	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Copper [7440-50-8]^	**10.8**	D	mg/kg dry	2	0.497	1.31	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Iron [7439-89-6]^	**18300**	BD	mg/kg dry	2	1.26	6.54	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Lead [7439-92-1]^	**59.4**	D	mg/kg dry	2	0.314	1.31	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Manganese [7439-96-5]^	**36.8**	D	mg/kg dry	2	0.262	1.31	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Mercury [7439-97-6]^	ND		mg/kg dry	1	0.00902	0.0314	3J15010	EPA 7471B	10/17/13 13:58	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	2	0.942	6.54	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.262	1.31	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Silver [7440-22-4]^	**0.414**	JD	mg/kg dry	2	0.262	1.31	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.262	1.31	3K07027	EPA 6010C	11/14/13 13:11	JDH	
Zinc [7440-66-6]^	**69.7**	D	mg/kg dry	2	2.88	6.54	3K07027	EPA 6010C	11/14/13 13:11	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**1.2**	J	mg/kg dry	1	0.59	1.3	3J04010	EPA 350.1	10/04/13 13:00	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.7	13	3J04022	EPA 9056A	10/04/13 21:19	AJB	
Sulfate as SO4 [14808-79-8]	**65**		mg/kg dry	1	38	65	3J04022	EPA 9056A	10/04/13 21:19	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.23	13.1	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Arsenic [7440-38-2]^	**15.2**	JD	mg/kg dry	20	13.3	26.2	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.62	52.3	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.40	26.2	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	14.4	131	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	5.75	26.2	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Iron [7439-89-6]^	**12300**	D	mg/kg dry	20	44.5	131	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Lead [7439-92-1]^	**13.3**	JD	mg/kg dry	20	6.28	131	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Manganese [7439-96-5]^	**30.8**	D	mg/kg dry	20	7.32	26.2	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.54	26.2	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	23.8	26.2	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.44	13.1	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.968	26.2	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	34.0	131	3J08019	EPA 6020A	10/14/13 11:55	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-6 (5-6)	**Lab Sample ID:** C312834-05	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:50	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 71.02

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.015	0.068	3J10027	EPA 8260B	10/10/13 19:08	REF	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0009	0.0057	3J10027	EPA 8260B	10/10/13 19:08	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0057	3J10027	EPA 8260B	10/10/13 19:08	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0057	3J10027	EPA 8260B	10/10/13 19:08	REF	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0016	0.0057	3J10027	EPA 8260B	10/10/13 19:08	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0057	3J10027	EPA 8260B	10/10/13 19:08	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0023	3J10027	EPA 8260B	10/10/13 19:08	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0023	3J10027	EPA 8260B	10/10/13 19:08	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	

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ANALYTICAL RESULTS

Description: SB-6 (5-6)	**Lab Sample ID:** C312834-05	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:50	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 71.02

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10027	EPA 8260B	10/10/13 19:08	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*76 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 19:08*	*REF*	
Dibromofluoromethane	*38*	*1*	*50.0*	*76 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 19:08*	*REF*	
Toluene-d8	*39*	*1*	*50.0*	*79 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 19:08*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 19:08	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.46	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.038	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.038	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.034	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.061	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.061	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.039	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.044	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.039	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.035	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.039	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.035	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.042	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.044	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.037	0.56	3J03011	EPA 8270D	10/08/13 15:05	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.14	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.051	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.038	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.13	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.037	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.075	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.044	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	QL-02
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.039	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.039	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.054	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	

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ANALYTICAL RESULTS

Description: SB-6 (5-6)	**Lab Sample ID:** C312834-05	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:50	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 71.02

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.46	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.46	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.039	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.025	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.066	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.035	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.061	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.034	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.049	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.056	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	QV-01
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.46	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.042	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.072	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.038	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.039	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.058	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.051	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.041	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.037	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.037	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.055	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.030	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.066	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.042	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.039	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.037	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.11	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.076	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.046	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.038	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.031	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.054	0.46	3J03011	EPA 8270D	10/08/13 15:05	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*4.3*	*1*	*4.69*	*91 %*	*28-130*	*3J03011*	*EPA 8270D*	*10/08/13 15:05*	*DFM*	
2-Fluorobiphenyl	*2.0*	*1*	*2.35*	*86 %*	*49-105*	*3J03011*	*EPA 8270D*	*10/08/13 15:05*	*DFM*	
2-Fluorophenol	*3.7*	*1*	*4.69*	*79 %*	*28-95*	*3J03011*	*EPA 8270D*	*10/08/13 15:05*	*DFM*	
Nitrobenzene-d5	*2.1*	*1*	*2.35*	*88 %*	*50-117*	*3J03011*	*EPA 8270D*	*10/08/13 15:05*	*DFM*	
Phenol-d5	*4.0*	*1*	*4.69*	*85 %*	*21-184*	*3J03011*	*EPA 8270D*	*10/08/13 15:05*	*DFM*	
Terphenyl-d14	*2.6*	*1*	*2.35*	*109 %*	*54-124*	*3J03011*	*EPA 8270D*	*10/08/13 15:05*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-6 (5-6)	**Lab Sample ID:** C312834-05	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:50	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 71.02

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
n-Hexadecanoic acid [000057-10-3]	**0.29**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 15:05	DFM	
Octadecanoic acid [000057-11-4]	**0.27**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 15:05	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.310	2.82	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Arsenic [7440-38-2]^	**10.3**	D	mg/kg dry	2	0.282	1.41	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Beryllium [7440-41-7]^	**0.0588**	JD	mg/kg dry	2	0.0338	0.141	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0270	0.141	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Chromium [7440-47-3]^	**0.444**	JD	mg/kg dry	2	0.282	1.41	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Copper [7440-50-8]^	**3.18**	D	mg/kg dry	2	0.535	1.41	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Iron [7439-89-6]^	**8360**	BD	mg/kg dry	2	1.35	7.04	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Lead [7439-92-1]^	**9.88**	D	mg/kg dry	2	0.338	1.41	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Manganese [7439-96-5]^	**5.48**	D	mg/kg dry	2	0.282	1.41	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Mercury [7439-97-6]^	ND		mg/kg dry	1	0.00972	0.0338	3J15010	EPA 7471B	10/17/13 14:00	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	2	1.01	7.04	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.282	1.41	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Silver [7440-22-4]^	ND		mg/kg dry	2	0.282	1.41	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Thallium [7440-28-0]^	**0.310**	JD	mg/kg dry	2	0.282	1.41	3K07027	EPA 6010C	11/14/13 13:13	JDH	
Zinc [7440-66-6]^	ND		mg/kg dry	2	3.10	7.04	3K07027	EPA 6010C	11/14/13 13:13	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	ND		mg/kg dry	1	0.63	1.4	3J04010	EPA 350.1	10/04/13 13:03	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.9	14	3J04022	EPA 9056A	10/04/13 21:37	AJB	
Sulfate as SO4 [14808-79-8]	**57**	J	mg/kg dry	1	41	70	3J04022	EPA 9056A	10/04/13 21:37	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.63	14.1	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	14.4	28.2	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.82	56.3	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.66	28.2	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	15.5	141	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	6.20	28.2	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Iron [7439-89-6]^	**9390**	D	mg/kg dry	20	47.9	141	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Lead [7439-92-1]^	**10.3**	JD	mg/kg dry	20	6.76	141	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Manganese [7439-96-5]^	**12.5**	JD	mg/kg dry	20	7.89	28.2	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	7.04	28.2	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	25.6	28.2	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.55	14.1	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	1.04	28.2	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	36.6	141	3J08019	EPA 6020A	10/14/13 11:59	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-6 (9-10)	**Lab Sample ID:** C312834-06	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:55	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 73.52

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0011	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.018	0.082	3J10027	EPA 8260B	10/10/13 19:37	REF	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0011	0.0068	3J10027	EPA 8260B	10/10/13 19:37	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0010	0.0068	3J10027	EPA 8260B	10/10/13 19:37	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0008	0.0068	3J10027	EPA 8260B	10/10/13 19:37	REF	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0019	0.0068	3J10027	EPA 8260B	10/10/13 19:37	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0068	3J10027	EPA 8260B	10/10/13 19:37	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0005	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0005	0.0027	3J10027	EPA 8260B	10/10/13 19:37	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0010	0.0027	3J10027	EPA 8260B	10/10/13 19:37	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0013	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0005	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	

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ANALYTICAL RESULTS

Description: SB-6 (9-10)	**Lab Sample ID:** C312834-06	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:55	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 73.52

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 19:37	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 19:37*	*REF*	
Dibromofluoromethane	*38*	*1*	*50.0*	*76 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 19:37*	*REF*	
Toluene-d8	*39*	*1*	*50.0*	*79 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 19:37*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 19:37	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.45	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.037	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.037	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.033	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.058	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.058	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.038	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.042	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.038	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.034	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.038	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.034	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.041	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.042	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.035	0.54	3J03011	EPA 8270D	10/08/13 15:34	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.049	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.037	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.13	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.035	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.072	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.042	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	QL-02
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.038	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.038	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.052	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	

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ANALYTICAL RESULTS

Description:	SB-6 (9-10)	**Lab Sample ID:**	C312834-06	**Received:**	10/03/13 18:30
Matrix:	Soil	**Sampled:**	10/03/13 13:55	**Work Order:**	C312834
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	73.52

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.45	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.45	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.038	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.024	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.064	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.034	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.058	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.033	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.048	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.054	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	QV-01
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.45	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.041	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.069	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.037	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.038	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.056	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.049	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.039	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.035	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.035	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.053	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.029	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.064	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.041	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.038	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.035	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.11	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.073	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.045	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.037	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.030	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.052	0.45	3J03011	EPA 8270D	10/08/13 15:34	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*4.0*	*1*	*4.53*	*88 %*	*28-130*	*3J03011*	*EPA 8270D*	*10/08/13 15:34*	*DFM*	
2-Fluorobiphenyl	*2.0*	*1*	*2.27*	*88 %*	*49-105*	*3J03011*	*EPA 8270D*	*10/08/13 15:34*	*DFM*	
2-Fluorophenol	*3.8*	*1*	*4.53*	*84 %*	*28-95*	*3J03011*	*EPA 8270D*	*10/08/13 15:34*	*DFM*	
Nitrobenzene-d5	*2.0*	*1*	*2.27*	*90 %*	*50-117*	*3J03011*	*EPA 8270D*	*10/08/13 15:34*	*DFM*	
Phenol-d5	*4.1*	*1*	*4.53*	*91 %*	*21-184*	*3J03011*	*EPA 8270D*	*10/08/13 15:34*	*DFM*	
Terphenyl-d14	*2.4*	*1*	*2.27*	*104 %*	*54-124*	*3J03011*	*EPA 8270D*	*10/08/13 15:34*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-6 (9-10)	**Lab Sample ID:** C312834-06	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 13:55	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 73.52

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
n-Hexadecanoic acid [000057-10-3]	**0.23**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 15:34	DFM	
Octadecanoic acid [000057-11-4]	**0.21**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 15:34	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.299	2.72	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Arsenic [7440-38-2]^	**15.1**	D	mg/kg dry	2	0.272	1.36	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Beryllium [7440-41-7]^	**0.0504**	JD	mg/kg dry	2	0.0326	0.136	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0261	0.136	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Chromium [7440-47-3]^	**0.475**	JD	mg/kg dry	2	0.272	1.36	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Copper [7440-50-8]^	**4.68**	D	mg/kg dry	2	0.517	1.36	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Iron [7439-89-6]^	**9740**	BD	mg/kg dry	2	1.31	6.80	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Lead [7439-92-1]^	**15.2**	D	mg/kg dry	2	0.326	1.36	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Manganese [7439-96-5]^	**10.8**	D	mg/kg dry	2	0.272	1.36	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Mercury [7439-97-6]^	ND		mg/kg dry	1	0.00939	0.0326	3J15010	EPA 7471B	10/17/13 14:02	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	2	0.979	6.80	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.272	1.36	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Silver [7440-22-4]^	ND		mg/kg dry	2	0.272	1.36	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.272	1.36	3K07027	EPA 6010C	11/14/13 13:15	JDH	
Zinc [7440-66-6]^	**4.35**	JD	mg/kg dry	2	2.99	6.80	3K07027	EPA 6010C	11/14/13 13:15	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	ND		mg/kg dry	1	0.61	1.4	3J04010	EPA 350.1	10/04/13 13:05	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.8	14	3J04022	EPA 9056A	10/04/13 21:54	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	39	68	3J04022	EPA 9056A	10/04/13 21:54	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.44	13.6	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	13.9	27.2	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.72	54.4	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.54	27.2	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	15.0	136	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Copper [7440-50-8]^	**6.78**	JD	mg/kg dry	20	5.98	27.2	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Iron [7439-89-6]^	**11300**	D	mg/kg dry	20	46.2	136	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Lead [7439-92-1]^	**13.9**	JD	mg/kg dry	20	6.53	136	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Manganese [7439-96-5]^	ND		mg/kg dry	20	7.62	27.2	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.80	27.2	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	24.8	27.2	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.50	13.6	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	1.01	27.2	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	35.4	136	3J08019	EPA 6020A	10/14/13 12:03	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-7 (1-2)	**Lab Sample ID:** C312834-07	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.84

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0010	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0006	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.016	0.074	3J10027	EPA 8260B	10/10/13 20:07	REF	
2-Butanone [78-93-3]^	**0.0070**		mg/kg dry	1	0.0010	0.0062	3J10027	EPA 8260B	10/10/13 20:07	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0062	3J10027	EPA 8260B	10/10/13 20:07	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0062	3J10027	EPA 8260B	10/10/13 20:07	REF	
Acetone [67-64-1]^	**0.13**		mg/kg dry	1	0.0017	0.0062	3J10027	EPA 8260B	10/10/13 20:07	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0006	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0062	3J10027	EPA 8260B	10/10/13 20:07	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Chloroform [67-66-3]^	**0.0012**		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0006	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0005	0.0025	3J10027	EPA 8260B	10/10/13 20:07	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0009	0.0025	3J10027	EPA 8260B	10/10/13 20:07	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0012	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	

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ANALYTICAL RESULTS

Description: SB-7 (1-2)	**Lab Sample ID:** C312834-07	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.84

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 20:07	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*79 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 20:07*	*REF*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 20:07*	*REF*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 20:07*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
.alpha.-Pinene [000080-56-8]	**0.0094**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 20:07	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.41	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.033	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.033	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.030	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.053	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.053	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.035	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.038	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.035	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.031	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.035	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.031	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.037	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.038	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.032	0.49	3J03011	EPA 8270D	10/08/13 16:02	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.045	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.033	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.032	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.066	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.038	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	QL-02
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.035	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.035	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.047	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.41	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	

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ANALYTICAL RESULTS

Description: SB-7 (1-2)	**Lab Sample ID:** C312834-07	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.84

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.41	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.035	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.022	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.058	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.031	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.053	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.030	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.043	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.049	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	QV-01
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.41	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.037	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.063	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.033	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.035	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.051	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.045	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.036	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.032	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.032	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.048	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.026	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.058	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.037	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.035	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.032	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.10	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.067	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.041	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.033	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.027	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.047	0.41	3J03011	EPA 8270D	10/08/13 16:02	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.6*	*1*	*4.12*	*88 %*	*28-130*	*3J03011*	*EPA 8270D*	*10/08/13 16:02*	*DFM*	
2-Fluorobiphenyl	*1.8*	*1*	*2.06*	*86 %*	*49-105*	*3J03011*	*EPA 8270D*	*10/08/13 16:02*	*DFM*	
2-Fluorophenol	*3.3*	*1*	*4.12*	*79 %*	*28-95*	*3J03011*	*EPA 8270D*	*10/08/13 16:02*	*DFM*	
Nitrobenzene-d5	*1.8*	*1*	*2.06*	*87 %*	*50-117*	*3J03011*	*EPA 8270D*	*10/08/13 16:02*	*DFM*	
Phenol-d5	*3.5*	*1*	*4.12*	*86 %*	*21-184*	*3J03011*	*EPA 8270D*	*10/08/13 16:02*	*DFM*	
Terphenyl-d14	*2.1*	*1*	*2.06*	*103 %*	*54-124*	*3J03011*	*EPA 8270D*	*10/08/13 16:02*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-7 (1-2)	**Lab Sample ID:** C312834-07	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.84

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Phenanthrenecarboxylic ac... [001740-19-8]	**0.24**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 16:02	DFM	
Erucylamide [000112-84-5]	**0.55**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 16:02	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.21**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 16:02	DFM	
Octadecanoic acid [000057-11-4]	**0.20**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 16:02	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	4	0.544	4.95	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Arsenic [7440-38-2]^	**7.59**	D	mg/kg dry	4	0.495	2.47	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Beryllium [7440-41-7]^	**0.233**	JD	mg/kg dry	4	0.0594	0.247	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	4	0.0475	0.247	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Chromium [7440-47-3]^	**0.787**	JD	mg/kg dry	4	0.495	2.47	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Copper [7440-50-8]^	**9.88**	D	mg/kg dry	4	0.940	2.47	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Iron [7439-89-6]^	**29000**	BD	mg/kg dry	4	2.38	12.4	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Lead [7439-92-1]^	**6.91**	D	mg/kg dry	4	0.594	2.47	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Manganese [7439-96-5]^	**13.0**	D	mg/kg dry	4	0.495	2.47	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Mercury [7439-97-6]^	**0.0326**		mg/kg dry	1	0.00854	0.0297	3J15010	EPA 7471B	10/17/13 14:05	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	4	1.78	12.4	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	4	0.495	2.47	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Silver [7440-22-4]^	**0.667**	JD	mg/kg dry	4	0.495	2.47	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Thallium [7440-28-0]^	**2.28**	JD	mg/kg dry	4	0.495	2.47	3K07027	EPA 6010C	11/14/13 13:18	JDH	
Zinc [7440-66-6]^	**10.0**	JD	mg/kg dry	4	5.44	12.4	3K07027	EPA 6010C	11/14/13 13:18	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**0.61**	J	mg/kg dry	1	0.56	1.2	3J04010	EPA 350.1	10/04/13 13:11	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.5	12	3J04022	EPA 9056A	10/04/13 22:12	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	36	62	3J04022	EPA 9056A	10/04/13 22:12	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	4.95	12.4	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	12.6	24.7	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.47	49.5	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.22	24.7	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	13.6	124	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Copper [7440-50-8]^	**6.77**	JD	mg/kg dry	20	5.44	24.7	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Iron [7439-89-6]^	**21300**	D	mg/kg dry	20	42.1	124	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Lead [7439-92-1]^	**6.86**	JD	mg/kg dry	20	5.94	124	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Manganese [7439-96-5]^	ND		mg/kg dry	20	6.93	24.7	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.19	24.7	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	22.5	24.7	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.36	12.4	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.915	24.7	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	32.2	124	3J08019	EPA 6020A	10/14/13 12:07	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-7 (5-6)	**Lab Sample ID:**	C312834-08	**Received:**	10/03/13 18:30
Matrix:	Soil	**Sampled:**	10/03/13 10:20	**Work Order:**	C312834
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	78.08

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0010	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0006	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.017	0.077	3J10027	EPA 8260B	10/10/13 20:36	REF	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0010	0.0064	3J10027	EPA 8260B	10/10/13 20:36	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0010	0.0064	3J10027	EPA 8260B	10/10/13 20:36	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0064	3J10027	EPA 8260B	10/10/13 20:36	REF	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0018	0.0064	3J10027	EPA 8260B	10/10/13 20:36	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0006	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0064	3J10027	EPA 8260B	10/10/13 20:36	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Chloroform [67-66-3]^	**0.0006**	J	mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0006	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0005	0.0026	3J10027	EPA 8260B	10/10/13 20:36	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0009	0.0026	3J10027	EPA 8260B	10/10/13 20:36	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0013	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	

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ANALYTICAL RESULTS

Description: SB-7 (5-6)	**Lab Sample ID:** C312834-08	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:20	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.08

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0013	3J10027	EPA 8260B	10/10/13 20:36	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 20:36*	*REF*	
Dibromofluoromethane	*40*	*1*	*50.0*	*79 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 20:36*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 20:36*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1R-.alpha.-Pinene [007785-70-8]	**0.021**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 20:36	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.42	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.035	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.035	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.031	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.055	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.055	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.036	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.040	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.036	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.032	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.036	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.032	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.038	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.040	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.033	0.51	3J03011	EPA 8270D	10/08/13 16:31	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.046	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.035	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.033	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.068	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.040	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	QL-02
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.036	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.036	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.049	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.42	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	

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ANALYTICAL RESULTS

Description: SB-7 (5-6)	**Lab Sample ID:** C312834-08	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:20	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.08

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.42	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.036	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.023	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.060	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.032	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.055	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.031	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.045	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.051	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	QV-01
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.42	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.038	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.065	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.035	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.036	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.053	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.046	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.037	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.033	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.033	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.050	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.027	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.060	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.038	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.036	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.033	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.10	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.069	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.042	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.035	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.028	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.049	0.42	3J03011	EPA 8270D	10/08/13 16:31	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.8*	*1*	*4.27*	*89 %*	*28-130*	*3J03011*	*EPA 8270D*	*10/08/13 16:31*	*DFM*	
2-Fluorobiphenyl	*1.8*	*1*	*2.13*	*84 %*	*49-105*	*3J03011*	*EPA 8270D*	*10/08/13 16:31*	*DFM*	
2-Fluorophenol	*3.4*	*1*	*4.27*	*79 %*	*28-95*	*3J03011*	*EPA 8270D*	*10/08/13 16:31*	*DFM*	
Nitrobenzene-d5	*1.8*	*1*	*2.13*	*85 %*	*50-117*	*3J03011*	*EPA 8270D*	*10/08/13 16:31*	*DFM*	
Phenol-d5	*3.8*	*1*	*4.27*	*89 %*	*21-184*	*3J03011*	*EPA 8270D*	*10/08/13 16:31*	*DFM*	
Terphenyl-d14	*2.3*	*1*	*2.13*	*106 %*	*54-124*	*3J03011*	*EPA 8270D*	*10/08/13 16:31*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-7 (5-6)	**Lab Sample ID:** C312834-08	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:20	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.08

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Phenanthrenecarboxylic ac... [001740-19-8]	**0.23**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 16:31	DFM	
Erucylamide [000112-84-5]	**0.53**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 16:31	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.26**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 16:31	DFM	
Octadecanoic acid [000057-11-4]	**0.22**	JN	mg/kg dry	1			3J03011	EPA 8270D	10/08/13 16:31	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	4	0.563	5.12	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Arsenic [7440-38-2]^	**19.1**	D	mg/kg dry	4	0.512	2.56	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Beryllium [7440-41-7]^	**0.194**	JD	mg/kg dry	4	0.0615	0.256	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Cadmium [7440-43-9]^	**0.0911**	JD	mg/kg dry	4	0.0492	0.256	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Chromium [7440-47-3]^	**0.623**	JD	mg/kg dry	4	0.512	2.56	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Copper [7440-50-8]^	**8.10**	D	mg/kg dry	4	0.973	2.56	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Iron [7439-89-6]^	**29000**	BD	mg/kg dry	4	2.46	12.8	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Lead [7439-92-1]^	**8.67**	D	mg/kg dry	4	0.615	2.56	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Manganese [7439-96-5]^	**48.0**	D	mg/kg dry	4	0.512	2.56	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Mercury [7439-97-6]^	**0.0234**	J	mg/kg dry	1	0.00884	0.0307	3J15010	EPA 7471B	10/17/13 14:07	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	4	1.84	12.8	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	4	0.512	2.56	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Silver [7440-22-4]^	**0.786**	JD	mg/kg dry	4	0.512	2.56	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	4	0.512	2.56	3K07027	EPA 6010C	11/14/13 13:20	JDH	
Zinc [7440-66-6]^	**13.2**	D	mg/kg dry	4	5.63	12.8	3K07027	EPA 6010C	11/14/13 13:20	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	ND		mg/kg dry	1	0.58	1.3	3J04010	EPA 350.1	10/04/13 13:13	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.6	13	3J04022	EPA 9056A	10/04/13 22:29	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	37	64	3J04022	EPA 9056A	10/04/13 22:29	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.12	12.8	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Arsenic [7440-38-2]^	**13.5**	JD	mg/kg dry	20	13.1	25.6	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.56	51.2	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.33	25.6	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	14.1	128	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Copper [7440-50-8]^	**6.26**	JD	mg/kg dry	20	5.64	25.6	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Iron [7439-89-6]^	**53600**	D	mg/kg dry	50	109	320	3J08019	EPA 6020A	10/14/13 13:59	JMA	R-01
Lead [7439-92-1]^	**80.2**	JD	mg/kg dry	20	6.15	128	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Manganese [7439-96-5]^	**629**	D	mg/kg dry	20	7.17	25.6	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.40	25.6	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	23.3	25.6	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.41	12.8	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.948	25.6	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	33.3	128	3J08019	EPA 6020A	10/14/13 12:11	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-7 (9-10)	**Lab Sample ID:** C312834-09	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:25	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.66

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0010	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0006	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.016	0.074	3J10027	EPA 8260B	10/10/13 21:05	REF	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0010	0.0062	3J10027	EPA 8260B	10/10/13 21:05	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0062	3J10027	EPA 8260B	10/10/13 21:05	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0062	3J10027	EPA 8260B	10/10/13 21:05	REF	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0017	0.0062	3J10027	EPA 8260B	10/10/13 21:05	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0006	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0062	3J10027	EPA 8260B	10/10/13 21:05	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0006	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0005	0.0025	3J10027	EPA 8260B	10/10/13 21:05	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0009	0.0025	3J10027	EPA 8260B	10/10/13 21:05	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0012	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	

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ANALYTICAL RESULTS

Description: SB-7 (9-10)	**Lab Sample ID:** C312834-09	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:25	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.66

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10027	EPA 8260B	10/10/13 21:05	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*82 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 21:05*	*REF*	
Dibromofluoromethane	*38*	*1*	*50.0*	*76 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 21:05*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 21:05*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1R-.alpha.-Pinene [007785-70-8]	**0.061**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 21:05	REF	
Camphene [000079-92-5]	**0.0023**	J	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 21:05	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.41	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.033	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.033	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.030	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.053	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.053	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.038	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.031	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.031	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.037	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.038	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.032	0.50	3J08009	EPA 8270D	10/09/13 13:49	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.045	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.033	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.032	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.066	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.038	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.047	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	

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ANALYTICAL RESULTS

Description:	SB-7 (9-10)	**Lab Sample ID:**	C312834-09	**Received:**	10/03/13 18:30
Matrix:	Soil	**Sampled:**	10/03/13 10:25	**Work Order:**	C312834
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	80.66

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.41	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.41	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.022	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.058	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.031	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.053	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.030	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.043	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.050	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.41	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.037	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.063	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.033	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.051	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.045	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.036	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.032	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.032	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.048	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.026	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.058	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.037	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.032	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.10	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.067	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.033	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.027	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.047	0.41	3J08009	EPA 8270D	10/09/13 13:49	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.5*	*1*	*4.13*	*85 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 13:49*	*DFM*	
2-Fluorobiphenyl	*1.8*	*1*	*2.07*	*87 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 13:49*	*DFM*	
2-Fluorophenol	*3.3*	*1*	*4.13*	*81 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 13:49*	*DFM*	
Nitrobenzene-d5	*1.8*	*1*	*2.07*	*87 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 13:49*	*DFM*	
Phenol-d5	*3.6*	*1*	*4.13*	*87 %*	*21-184*	*3J08009*	*EPA 8270D*	*10/09/13 13:49*	*DFM*	
Terphenyl-d14	*1.9*	*1*	*2.07*	*92 %*	*54-124*	*3J08009*	*EPA 8270D*	*10/09/13 13:49*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-7 (9-10)	**Lab Sample ID:**	C312834-09	**Received:**	10/03/13 18:30
Matrix:	Soil	**Sampled:**	10/03/13 10:25	**Work Order:**	C312834
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	80.66

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
.gamma.-Sitosterol [000083-47-6]	**0.34**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:49	DFM	
Hexadecane [000544-76-3]	**0.20**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:49	DFM	
n-Hexadecanoic acid [000057-10-3]	**1.2**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:49	DFM	
Nonadecane [000629-92-5]	**0.21**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:49	DFM	
Octadecanoic acid [000057-11-4]	**1.5**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:49	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.273	2.48	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Arsenic [7440-38-2]^	**12.3**	D	mg/kg dry	2	0.248	1.24	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Beryllium [7440-41-7]^	**0.156**	D	mg/kg dry	2	0.0298	0.124	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0238	0.124	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Chromium [7440-47-3]^	**1.75**	D	mg/kg dry	2	0.248	1.24	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Copper [7440-50-8]^	**8.40**	D	mg/kg dry	2	0.471	1.24	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Iron [7439-89-6]^	**23300**	BD	mg/kg dry	2	1.19	6.20	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Lead [7439-92-1]^	**12.5**	D	mg/kg dry	2	0.298	1.24	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Manganese [7439-96-5]^	**212**	D	mg/kg dry	2	0.248	1.24	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Mercury [7439-97-6]^	**0.0149**	J	mg/kg dry	1	0.00855	0.0298	3J15010	EPA 7471B	10/17/13 14:09	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	2	0.893	6.20	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.248	1.24	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Silver [7440-22-4]^	**0.561**	JD	mg/kg dry	2	0.248	1.24	3K07027	EPA 6010C	11/14/13 13:23	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	4	0.496	2.48	3K07027	EPA 6010C	11/14/13 14:20	JDH	
Zinc [7440-66-6]^	**10.9**	D	mg/kg dry	2	2.73	6.20	3K07027	EPA 6010C	11/14/13 13:23	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	ND		mg/kg dry	1	0.56	1.2	3J04010	EPA 350.1	10/04/13 13:15	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.5	12	3J04022	EPA 9056A	10/04/13 22:47	AJB	
Sulfate as SO4 [14808-79-8]	**53**	J	mg/kg dry	1	36	62	3J04022	EPA 9056A	10/04/13 22:47	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	4.96	12.4	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	12.6	24.8	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.48	49.6	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.22	24.8	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	13.6	124	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	5.45	24.8	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Iron [7439-89-6]^	**15500**	D	mg/kg dry	20	42.2	124	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Lead [7439-92-1]^	**6.78**	JD	mg/kg dry	20	5.95	124	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Manganese [7439-96-5]^	**110**	D	mg/kg dry	20	6.94	24.8	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.20	24.8	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	22.6	24.8	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.36	12.4	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.917	24.8	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	32.2	124	3J08019	EPA 6020A	10/14/13 12:15	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-DUP-1	**Lab Sample ID:** C312834-10	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 81.78

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0011	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.018	0.082	3J10027	EPA 8260B	10/10/13 21:35	REF	
2-Butanone [78-93-3]^	**0.036**		mg/kg dry	1	0.0011	0.0068	3J10027	EPA 8260B	10/10/13 21:35	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0010	0.0068	3J10027	EPA 8260B	10/10/13 21:35	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0008	0.0068	3J10027	EPA 8260B	10/10/13 21:35	REF	
Acetone [67-64-1]^	**1.1**	E	mg/kg dry	1	0.0019	0.0068	3J10027	EPA 8260B	10/10/13 21:35	REF	
Acetone [67-64-1]^	ND		mg/kg dry	117	0.20	0.72	3J11021	EPA 8260B	10/11/13 16:33	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0068	3J10027	EPA 8260B	10/10/13 21:35	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0005	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0006	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0005	0.0027	3J10027	EPA 8260B	10/10/13 21:35	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0010	0.0027	3J10027	EPA 8260B	10/10/13 21:35	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0013	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	

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ANALYTICAL RESULTS

Description: SB-DUP-1	**Lab Sample ID:** C312834-10	**Received:** 10/03/13 18:30
Matrix: Soil	**Sampled:** 10/03/13 10:15	**Work Order:** C312834
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 81.78

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0005	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10027	EPA 8260B	10/10/13 21:35	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 21:35*	*REF*	
Dibromofluoromethane	*38*	*1*	*50.0*	*76 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 21:35*	*REF*	
Toluene-d8	*40*	*1*	*50.0*	*79 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 21:35*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1R-.alpha.-Pinene [007785-70-8]	**0.0090**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 21:35	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.40	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.029	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.053	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.053	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.038	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.031	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.031	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.037	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.038	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.032	0.49	3J08009	EPA 8270D	10/09/13 14:18	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.044	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.032	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.065	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.038	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.046	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	

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ANALYTICAL RESULTS

Description:	SB-DUP-1	**Lab Sample ID:**	C312834-10	**Received:**	10/03/13 18:30
Matrix:	Soil	**Sampled:**	10/03/13 10:15	**Work Order:**	C312834
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	81.78

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.40	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.40	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.022	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.057	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.031	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.053	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.029	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.043	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.049	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.40	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.037	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.062	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.050	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.044	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.035	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.032	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.032	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.048	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.026	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.057	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.037	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.032	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.099	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.066	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.027	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.046	0.40	3J08009	EPA 8270D	10/09/13 14:18	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.7*	*1*	*4.08*	*92 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 14:18*	*DFM*	
2-Fluorobiphenyl	*1.8*	*1*	*2.04*	*86 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 14:18*	*DFM*	
2-Fluorophenol	*3.2*	*1*	*4.08*	*79 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 14:18*	*DFM*	
Nitrobenzene-d5	*1.7*	*1*	*2.04*	*85 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 14:18*	*DFM*	
Phenol-d5	*3.6*	*1*	*4.08*	*87 %*	*21-184*	*3J08009*	*EPA 8270D*	*10/09/13 14:18*	*DFM*	
Terphenyl-d14	*2.0*	*1*	*2.04*	*97 %*	*54-124*	*3J08009*	*EPA 8270D*	*10/09/13 14:18*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-DUP-1	**Lab Sample ID:**	C312834-10	**Received:**	10/03/13 18:30
Matrix:	Soil	**Sampled:**	10/03/13 10:15	**Work Order:**	C312834
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	81.78

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
.gamma.-Sitosterol [000083-47-6]	**1.3**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 14:18	DFM	
1-Phenanthrenecarboxylic ac... [001740-19-8]	**0.57**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 14:18	DFM	
5-Cholestene-3-ol, 24-methyl- [1000214-17-4]	**0.36**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 14:18	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.53**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 14:18	DFM	
Octadecanoic acid [000057-11-4]	**0.41**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 14:18	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	4	0.538	4.89	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Arsenic [7440-38-2]^	**14.1**	D	mg/kg dry	4	0.489	2.45	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Beryllium [7440-41-7]^	**0.146**	JD	mg/kg dry	4	0.0587	0.245	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	4	0.0470	0.245	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Chromium [7440-47-3]^	**3.42**	D	mg/kg dry	4	0.489	2.45	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Copper [7440-50-8]^	**8.74**	D	mg/kg dry	4	0.929	2.45	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Iron [7439-89-6]^	**25700**	BD	mg/kg dry	4	2.35	12.2	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Lead [7439-92-1]^	**6.28**	D	mg/kg dry	4	0.587	2.45	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Manganese [7439-96-5]^	**9.81**	D	mg/kg dry	4	0.489	2.45	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Mercury [7439-97-6]^	**0.0414**		mg/kg dry	1	0.00844	0.0293	3J15010	EPA 7471B	10/17/13 14:14	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	4	1.76	12.2	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	4	0.489	2.45	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Silver [7440-22-4]^	**0.763**	JD	mg/kg dry	4	0.489	2.45	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Thallium [7440-28-0]^	**2.05**	JD	mg/kg dry	4	0.489	2.45	3K07027	EPA 6010C	11/14/13 13:25	JDH	
Zinc [7440-66-6]^	**12.1**	JD	mg/kg dry	4	5.38	12.2	3K07027	EPA 6010C	11/14/13 13:25	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**0.74**	J	mg/kg dry	1	0.55	1.2	3J04010	EPA 350.1	10/04/13 13:17	c1v	
Nitrate as N [14797-55-8]	ND		mg/kg dry	1	2.5	12	3J04022	EPA 9056A	10/04/13 23:04	AJB	
Sulfate as SO4 [14808-79-8]	**80**		mg/kg dry	1	35	61	3J04022	EPA 9056A	10/04/13 23:04	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	4.89	12.2	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	12.5	24.5	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.45	48.9	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.18	24.5	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	13.5	122	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	5.38	24.5	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Iron [7439-89-6]^	**19800**	D	mg/kg dry	20	41.6	122	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Lead [7439-92-1]^	ND		mg/kg dry	20	5.87	122	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Manganese [7439-96-5]^	ND		mg/kg dry	20	6.85	24.5	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.11	24.5	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	22.3	24.5	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.35	12.2	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-DUP-1	**Lab Sample ID:**	C312834-10	**Received:**	10/03/13 18:30
Matrix:	Soil	**Sampled:**	10/03/13 10:15	**Work Order:**	C312834
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	81.78

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.905	24.5	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	31.8	122	3J08019	EPA 6020A	10/14/13 12:18	JMA	R-01

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C312834-11 | **Received:** 10/03/13 18:30

Matrix: Water | **Sampled:** 10/03/13 10:15 | **Work Order:** C312834

Project: Spring Hope Dump | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J07030	EPA 8260B	10/08/13 20:39	REF	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C312834-11 | **Received:** 10/03/13 18:30
Matrix: Water | **Sampled:** 10/03/13 10:15 | **Work Order:** C312834
Project: Spring Hope Dump | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J07030	EPA 8260B	10/08/13 20:39	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*79 %*	*51-122*	*3J07030*	*EPA 8260B*	*10/08/13 20:39*	*REF*	
Dibromofluoromethane	*42*	*1*	*50.0*	*84 %*	*68-117*	*3J07030*	*EPA 8260B*	*10/08/13 20:39*	*REF*	
Toluene-d8	*45*	*1*	*50.0*	*90 %*	*67-127*	*3J07030*	*EPA 8260B*	*10/08/13 20:39*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J07030	EPA 8260B	10/08/13 20:39	REF	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J07030 - EPA 5030B_MS

Blank (3J07030-BLK1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 12:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J07030 - EPA 5030B_MS - Continued

Blank (3J07030-BLK1) Continued Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 12:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*80*	*51-122*			
Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*67-127*			

LCS (3J07030-BS1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 13:15

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		90	75-133			
Benzene	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Cyclohexane	12		1.0	ug/L	20.0		61	0-200			
Methyl acetate	13		1.0	ug/L	20.0		64	0-200			
Methyl cyclohexane	20		1.0	ug/L	20.0		99	0-200			
Toluene	18		1.0	ug/L	20.0		91	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			
4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Dibromofluoromethane	*39*			*ug/L*	*50.0*		*78*	*68-117*			
Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*67-127*			

Matrix Spike (3J07030-MS1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 13:45

Source: C312883-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	96	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	93	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Cyclohexane	13		1.0	ug/L	20.0	0.36 U	67	0-200			
Methyl acetate	14		1.0	ug/L	20.0	0.51 U	71	0-200			
Methyl cyclohexane	17		1.0	ug/L	20.0	0.54 U	86	0-200			
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118			
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	85	74-119			
4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*68-117*			
Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*67-127*			

Matrix Spike Dup (3J07030-MSD1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 14:14

Source: C312883-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	89	75-133	8	20	
Benzene	16		1.0	ug/L	20.0	0.15 U	82	81-134	13	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117	6	16	
Cyclohexane	12		1.0	ug/L	20.0	0.36 U	62	0-200	8	50	
Methyl acetate	13		1.0	ug/L	20.0	0.51 U	66	0-200	8	50	
Methyl cyclohexane	18		1.0	ug/L	20.0	0.54 U	92	0-200	7	50	
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118	0	17	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J07030 - EPA 5030B_MS - Continued

Matrix Spike Dup (3J07030-MSD1) Continued Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 14:14

Source: C312883-08

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	87	74-119	2	22	
4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*67-127*			

Batch 3J10027 - EPA 5035_MS

Blank (3J10027-BLK1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 16:11

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J10027 - EPA 5035_MS - Continued

Blank (3J10027-BLK1) Continued Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 16:11

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*77*	*61-118*			
Dibromofluoromethane	*36*			*ug/L*	*50.0*		*72*	*66-114*			
Toluene-d8	*40*			*ug/L*	*50.0*		*79*	*63-118*			

LCS (3J10027-BS1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 13:14

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		104	64-133			
Benzene	20		1.0	ug/L	20.0		98	79-129			
Chlorobenzene	21		1.0	ug/L	20.0		107	79-121			
Toluene	21		1.0	ug/L	20.0		107	77-120			
Trichloroethene	20		1.0	ug/L	20.0		101	78-118			
4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*61-118*			
Dibromofluoromethane	*37*			*ug/L*	*50.0*		*74*	*66-114*			
Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*63-118*			

Matrix Spike (3J10027-MS1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 13:44

Source: C313047-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.30 U	108	64-133			
Benzene	21		1.0	ug/L	20.0	0.17 U	104	79-129			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	109	79-121			
Toluene	22		1.0	ug/L	20.0	0.24 U	109	77-120			
Trichloroethene	21		1.0	ug/L	20.0	0.32 U	105	78-118			
4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*77*	*61-118*			
Dibromofluoromethane	*37*			*ug/L*	*50.0*		*75*	*66-114*			
Toluene-d8	*40*			*ug/L*	*50.0*		*80*	*63-118*			

Matrix Spike Dup (3J10027-MSD1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 14:13

Source: C313047-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.30 U	106	64-133	2	23	
Benzene	20		1.0	ug/L	20.0	0.17 U	99	79-129	4	23	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	79-121	4	25	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J10027 - EPA 5035_MS - Continued

Matrix Spike Dup (3J10027-MSD1) Continued Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 14:13

Source: C313047-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	21		1.0	ug/L	20.0	0.24 U	104	77-120	5	23	
Trichloroethene	20		1.0	ug/L	20.0	0.32 U	100	78-118	5	24	
4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*75*	*61-118*			
Dibromofluoromethane	*36*			*ug/L*	*50.0*		*71*	*66-114*			
Toluene-d8	*39*			*ug/L*	*50.0*		*77*	*63-118*			

Batch 3J11021 - EPA 5035_MS

Blank (3J11021-BLK1) Prepared: 10/11/2013 00:00 Analyzed: 10/11/2013 13:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J11021 - EPA 5035_MS - Continued

Blank (3J11021-BLK1) Continued Prepared: 10/11/2013 00:00 Analyzed: 10/11/2013 13:07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*81*	*61-118*			
Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*66-114*			
Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*63-118*			

LCS (3J11021-BS1) Prepared: 10/11/2013 00:00 Analyzed: 10/11/2013 13:37

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		105	64-133			
Benzene	19		1.0	ug/L	20.0		96	79-129			
Chlorobenzene	20		1.0	ug/L	20.0		102	79-121			
Toluene	20		1.0	ug/L	20.0		99	77-120			
Trichloroethene	20		1.0	ug/L	20.0		99	78-118			
4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*80*	*61-118*			
Dibromofluoromethane	*40*			*ug/L*	*50.0*		*79*	*66-114*			
Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*63-118*			

Matrix Spike (3J11021-MS1) Prepared: 10/11/2013 13:59 Analyzed: 10/11/2013 15:05

Source: C313131-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.30 U	108	64-133			
Benzene	19		1.0	ug/L	20.0	1.4	87	79-129			
Chlorobenzene	20		1.0	ug/L	20.0	1.7	91	79-121			
Toluene	20		1.0	ug/L	20.0	0.24 U	100	77-120			
Trichloroethene	20		1.0	ug/L	20.0	0.32 U	99	78-118			
4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*83*	*61-118*			
Dibromofluoromethane	*40*			*ug/L*	*50.0*		*81*	*66-114*			
Toluene-d8	*42*			*ug/L*	*50.0*		*84*	*63-118*			

Matrix Spike Dup (3J11021-MSD1) Prepared: 10/11/2013 00:00 Analyzed: 10/11/2013 15:35

Source: C313131-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.30 U	106	64-133	1	23	
Benzene	19		1.0	ug/L	20.0	1.4	87	79-129	0.3	23	

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J11021 - EPA 5035_MS - Continued

Matrix Spike Dup (3J11021-MSD1) Continued Prepared: 10/11/2013 00:00 Analyzed: 10/11/2013 15:35

Source: C313131-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0	1.7	93	79-121	2	25	
Toluene	20		1.0	ug/L	20.0	0.24 U	98	77-120	2	23	
Trichloroethene	20		1.0	ug/L	20.0	0.32 U	102	78-118	3	24	
4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*81*	*61-118*			
Dibromofluoromethane	*39*			*ug/L*	*50.0*		*78*	*66-114*			
Toluene-d8	*42*			*ug/L*	*50.0*		*83*	*63-118*			

Tentatively Identified Compounds by Volatile GCMS - Quality Control

Batch 3J07030 - EPA 5030B_MS

Blank (3J07030-BLK1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 12:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		ug/L							

Batch 3J10027 - EPA 5035_MS

Blank (3J10027-BLK1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 16:11

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		mg/kg wet							

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J03011 - EPA 3550C_MS

Blank (3J03011-BLK1) Prepared: 10/03/2013 09:39 Analyzed: 10/03/2013 17:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	0.33	U	0.33	mg/kg wet							
1,2,4,5-Tetrachlorobenzene	0.033	U	0.33	mg/kg wet							
2,3,4,6-Tetrachlorophenol	0.033	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.024	U	0.33	mg/kg wet							
2,4-Dimethylphenol	0.043	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.043	U	0.33	mg/kg wet							
2,4-Dinitrotoluene	0.028	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.031	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.028	U	0.33	mg/kg wet							
2-Chlorophenol	0.025	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.033	U	0.33	mg/kg wet							
2-Methylnaphthalene	0.028	U	0.33	mg/kg wet							
2-Methylphenol	0.025	U	0.33	mg/kg wet							
2-Nitroaniline	0.030	U	0.33	mg/kg wet							
2-Nitrophenol	0.031	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.026	U	0.40	mg/kg wet							
3,3'-Dichlorobenzidine	0.098	U	0.33	mg/kg wet							
3-Nitroaniline	0.036	U	0.33	mg/kg wet							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J03011 - EPA 3550C_MS - Continued

Blank (3J03011-BLK1) Continued Prepared: 10/03/2013 09:39 Analyzed: 10/03/2013 17:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Bromophenyl-phenylether	0.027	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.033	U	0.33	mg/kg wet							
4-Chloroaniline	0.093	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.026	U	0.33	mg/kg wet							
4-Nitroaniline	0.053	U	0.33	mg/kg wet							
4-Nitrophenol	0.031	U	0.33	mg/kg wet							
Acenaphthene	0.028	U	0.33	mg/kg wet							
Acenaphthylene	0.028	U	0.33	mg/kg wet							
Acetophenone	0.033	U	0.33	mg/kg wet							
Anthracene	0.038	U	0.33	mg/kg wet							
Atrazine	0.33	U	0.33	mg/kg wet							
Benzaldehyde	0.33	U	0.33	mg/kg wet							
Benzo(a)anthracene	0.028	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.033	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.018	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.047	U	0.33	mg/kg wet							
Benzo(k)fluoranthene	0.033	U	0.33	mg/kg wet							
Bis(2-chloroethoxy)methane	0.025	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.043	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.024	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.035	U	0.33	mg/kg wet							
Butylbenzylphthalate	0.040	U	0.33	mg/kg wet							QV-01
Caprolactam	0.33	U	0.33	mg/kg wet							
Carbazole	0.033	U	0.33	mg/kg wet							
Chrysene	0.030	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.051	U	0.33	mg/kg wet							
Dibenzofuran	0.027	U	0.33	mg/kg wet							
Diethylphthalate	0.028	U	0.33	mg/kg wet							
Dimethylphthalate	0.033	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.041	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.033	U	0.33	mg/kg wet							
Fluoranthene	0.036	U	0.33	mg/kg wet							
Fluorene	0.029	U	0.33	mg/kg wet							
Hexachlorobenzene	0.026	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.026	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.039	U	0.33	mg/kg wet							
Hexachloroethane	0.021	U	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.047	U	0.33	mg/kg wet							
Isophorone	0.030	U	0.33	mg/kg wet							
Naphthalene	0.028	U	0.33	mg/kg wet							
Nitrobenzene	0.026	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.081	U	0.33	mg/kg wet							
N-nitrosodiphenylamine/Diphenylamine	0.054	U	0.33	mg/kg wet							
Pentachlorophenol	0.033	U	0.33	mg/kg wet							
Phenanthrene	0.027	U	0.33	mg/kg wet							
Phenol	0.022	U	0.33	mg/kg wet							
Pyrene	0.038	U	0.33	mg/kg wet							
2,4,6-Tribromophenol	*2.9*			*mg/kg wet*	*3.33*		*87*	*28-130*			
2-Fluorobiphenyl	*1.3*			*mg/kg wet*	*1.67*		*79*	*49-105*			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J03011 - EPA 3550C_MS - Continued

Blank (3J03011-BLK1) Continued Prepared: 10/03/2013 09:39 Analyzed: 10/03/2013 17:58

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Fluorophenol	*2.1*			*mg/kg wet*	*3.33*		*64*	*28-95*			
Nitrobenzene-d5	*1.2*			*mg/kg wet*	*1.67*		*74*	*50-117*			
Phenol-d5	*2.3*			*mg/kg wet*	*3.33*		*70*	*21-184*			
Terphenyl-d14	*1.4*			*mg/kg wet*	*1.67*		*82*	*54-124*			

LCS (3J03011-BS1) Prepared: 10/03/2013 09:39 Analyzed: 10/08/2013 12:13

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.5		0.33	mg/kg wet	1.67		91	62-95			
4-Chloro-3-methylphenol	1.6		0.33	mg/kg wet	1.67		95	62-108			
4-Nitrophenol	1.7		0.33	mg/kg wet	1.67		101	21-97			QL-02
Acenaphthene	1.6		0.33	mg/kg wet	1.67		93	63-101			
Hexachlorocyclopentadiene	1.4		0.33	mg/kg wet	1.67		86	17-111			
N-Nitroso-di-n-propylamine	1.7		0.33	mg/kg wet	1.67		99	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.6		0.33	mg/kg wet	1.67		94	0-200			
Pentachlorophenol	1.5		0.33	mg/kg wet	1.67		92	25-120			
Phenol	1.5		0.33	mg/kg wet	1.67		88	31-78			QL-02
2,4,6-Tribromophenol	*2.9*			*mg/kg wet*	*3.33*		*88*	*42-123*			
2-Fluorobiphenyl	*1.5*			*mg/kg wet*	*1.67*		*90*	*49-105*			
2-Fluorophenol	*2.9*			*mg/kg wet*	*3.33*		*88*	*28-95*			
Nitrobenzene-d5	*1.5*			*mg/kg wet*	*1.67*		*91*	*50-117*			
Phenol-d5	*3.1*			*mg/kg wet*	*3.33*		*92*	*21-184*			
Terphenyl-d14	*1.6*			*mg/kg wet*	*1.67*		*95*	*54-124*			

Matrix Spike (3J03011-MS1) Prepared: 10/03/2013 09:39 Analyzed: 10/08/2013 12:41

Source: C312257-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.7		0.38	mg/kg dry	1.92	0.029 U	90	62-95			
4-Chloro-3-methylphenol	1.9		0.38	mg/kg dry	1.92	0.038 U	97	62-108			
4-Nitrophenol	1.9		0.38	mg/kg dry	1.92	0.036 U	101	21-97			QL-02
Acenaphthene	1.8		0.38	mg/kg dry	1.92	0.032 U	96	63-101			
Hexachlorocyclopentadiene	1.5		0.38	mg/kg dry	1.92	0.045 U	80	17-111			
N-Nitroso-di-n-propylamine	1.8		0.38	mg/kg dry	1.92	0.093 U	96	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.8		0.38	mg/kg dry	1.92	0.062 U	95	0-200			
Pentachlorophenol	1.9		0.38	mg/kg dry	1.92	0.038 U	97	25-120			
Phenol	1.7		0.38	mg/kg dry	1.92	0.025 U	88	31-78			QL-02
2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*3.83*		*92*	*42-123*			
2-Fluorobiphenyl	*1.8*			*mg/kg dry*	*1.92*		*93*	*49-105*			
2-Fluorophenol	*3.3*			*mg/kg dry*	*3.83*		*86*	*28-95*			
Nitrobenzene-d5	*1.8*			*mg/kg dry*	*1.92*		*92*	*50-117*			
Phenol-d5	*3.5*			*mg/kg dry*	*3.83*		*91*	*21-184*			
Terphenyl-d14	*2.0*			*mg/kg dry*	*1.92*		*103*	*54-124*			

Matrix Spike Dup (3J03011-MSD1) Prepared: 10/03/2013 09:39 Analyzed: 10/03/2013 19:24

Source: C312257-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.6		0.38	mg/kg dry	1.92	0.029 U	84	62-95	6	28	
4-Chloro-3-methylphenol	1.8		0.38	mg/kg dry	1.92	0.038 U	92	62-108	5	39	

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J03011 - EPA 3550C_MS - Continued

Matrix Spike Dup (3J03011-MSD1) Continued Prepared: 10/03/2013 09:39 Analyzed: 10/03/2013 19:24

Source: C312257-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Nitrophenol	1.7		0.38	mg/kg dry	1.92	0.036 U	89	21-97	12	43	
Acenaphthene	1.6		0.38	mg/kg dry	1.92	0.032 U	83	63-101	14	28	
Hexachlorocyclopentadiene	1.9		0.38	mg/kg dry	1.92	0.045 U	100	17-111	23	50	
N-Nitroso-di-n-propylamine	1.6		0.38	mg/kg dry	1.92	0.093 U	83	57-106	15	34	
N-nitrosodiphenylamine/Diphenylamine	1.7		0.38	mg/kg dry	1.92	0.062 U	90	0-200	5	200	
Pentachlorophenol	1.8		0.38	mg/kg dry	1.92	0.038 U	95	25-120	2	49	
Phenol	1.6		0.38	mg/kg dry	1.92	0.025 U	82	31-78	6	29	QL-02
2,4,6-Tribromophenol	*4.0*			*mg/kg dry*	*3.83*		*104*	*42-123*			
2-Fluorobiphenyl	*1.7*			*mg/kg dry*	*1.92*		*91*	*49-105*			
2-Fluorophenol	*2.9*			*mg/kg dry*	*3.83*		*75*	*28-95*			
Nitrobenzene-d5	*1.6*			*mg/kg dry*	*1.92*		*84*	*50-117*			
Phenol-d5	*3.1*			*mg/kg dry*	*3.83*		*82*	*21-184*			
Terphenyl-d14	*1.5*			*mg/kg dry*	*1.92*		*80*	*54-124*			

Batch 3J08009 - EPA 3550C_MS

Blank (3J08009-BLK1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	0.33	U	0.33	mg/kg wet							
1,2,4,5-Tetrachlorobenzene	0.033	U	0.33	mg/kg wet							
2,3,4,6-Tetrachlorophenol	0.033	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.024	U	0.33	mg/kg wet							
2,4-Dimethylphenol	0.043	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.043	U	0.33	mg/kg wet							
2,4-Dinitrotoluene	0.028	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.031	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.028	U	0.33	mg/kg wet							
2-Chlorophenol	0.025	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.033	U	0.33	mg/kg wet							
2-Methylnaphthalene	0.028	U	0.33	mg/kg wet							
2-Methylphenol	0.025	U	0.33	mg/kg wet							
2-Nitroaniline	0.030	U	0.33	mg/kg wet							
2-Nitrophenol	0.031	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.026	U	0.40	mg/kg wet							
3,3'-Dichlorobenzidine	0.098	U	0.33	mg/kg wet							
3-Nitroaniline	0.036	U	0.33	mg/kg wet							
4-Bromophenyl-phenylether	0.027	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.033	U	0.33	mg/kg wet							
4-Chloroaniline	0.093	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.026	U	0.33	mg/kg wet							
4-Nitroaniline	0.053	U	0.33	mg/kg wet							
4-Nitrophenol	0.031	U	0.33	mg/kg wet							
Acenaphthene	0.028	U	0.33	mg/kg wet							
Acenaphthylene	0.028	U	0.33	mg/kg wet							
Acetophenone	0.033	U	0.33	mg/kg wet							
Anthracene	0.038	U	0.33	mg/kg wet							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J08009 - EPA 3550C_MS - Continued

Blank (3J08009-BLK1) Continued Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Atrazine	0.33	U	0.33	mg/kg wet							
Benzaldehyde	0.33	U	0.33	mg/kg wet							
Benzo(a)anthracene	0.028	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.033	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.018	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.047	U	0.33	mg/kg wet							
Benzo(k)fluoranthene	0.033	U	0.33	mg/kg wet							
Bis(2-chloroethoxy)methane	0.025	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.043	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.024	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.035	U	0.33	mg/kg wet							QV-01
Butylbenzylphthalate	0.040	U	0.33	mg/kg wet							
Caprolactam	0.33	U	0.33	mg/kg wet							
Carbazole	0.033	U	0.33	mg/kg wet							
Chrysene	0.030	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.051	U	0.33	mg/kg wet							
Dibenzofuran	0.027	U	0.33	mg/kg wet							
Diethylphthalate	0.028	U	0.33	mg/kg wet							
Dimethylphthalate	0.033	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.041	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.033	U	0.33	mg/kg wet							
Fluoranthene	0.036	U	0.33	mg/kg wet							
Fluorene	0.029	U	0.33	mg/kg wet							
Hexachlorobenzene	0.026	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.026	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.039	U	0.33	mg/kg wet							
Hexachloroethane	0.021	U	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.047	U	0.33	mg/kg wet							
Isophorone	0.030	U	0.33	mg/kg wet							
Naphthalene	0.028	U	0.33	mg/kg wet							
Nitrobenzene	0.026	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.081	U	0.33	mg/kg wet							
N-nitrosodiphenylamine/Diphenylamine	0.054	U	0.33	mg/kg wet							
Pentachlorophenol	0.033	U	0.33	mg/kg wet							
Phenanthrene	0.027	U	0.33	mg/kg wet							
Phenol	0.022	U	0.33	mg/kg wet							
Pyrene	0.038	U	0.33	mg/kg wet							
2,4,6-Tribromophenol	*2.8*			*mg/kg wet*	*3.33*		*84*	*28-130*			
2-Fluorobiphenyl	*1.5*			*mg/kg wet*	*1.67*		*90*	*49-105*			
2-Fluorophenol	*2.8*			*mg/kg wet*	*3.33*		*85*	*28-95*			
Nitrobenzene-d5	*1.5*			*mg/kg wet*	*1.67*		*91*	*50-117*			
Phenol-d5	*3.0*			*mg/kg wet*	*3.33*		*90*	*21-184*			
Terphenyl-d14	*1.6*			*mg/kg wet*	*1.67*		*95*	*54-124*			

LCS (3J08009-BS1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:54

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.4		0.33	mg/kg wet	1.67		82	62-95			
4-Chloro-3-methylphenol	1.6		0.33	mg/kg wet	1.67		95	62-108			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J08009 - EPA 3550C_MS - Continued

LCS (3J08009-BS1) Continued Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:54

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
4-Nitrophenol	1.3		0.33	mg/kg wet	1.67		81	21-97			
Acenaphthene	1.2		0.33	mg/kg wet	1.67		73	63-101			
Hexachlorocyclopentadiene	1.4		0.33	mg/kg wet	1.67		82	17-111			
N-Nitroso-di-n-propylamine	1.7		0.33	mg/kg wet	1.67		103	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.3		0.33	mg/kg wet	1.67		77	0-200			
Pentachlorophenol	1.1		0.33	mg/kg wet	1.67		69	25-120			
Phenol	1.6		0.33	mg/kg wet	1.67		94	31-78			QL-02
2,4,6-Tribromophenol	*2.7*			*mg/kg wet*	*3.33*		*81*	*42-123*			
2-Fluorobiphenyl	*1.5*			*mg/kg wet*	*1.67*		*89*	*49-105*			
2-Fluorophenol	*3.3*			*mg/kg wet*	*3.33*		*98*	*28-95*			*QS-03*
Nitrobenzene-d5	*1.6*			*mg/kg wet*	*1.67*		*96*	*50-117*			
Phenol-d5	*3.0*			*mg/kg wet*	*3.33*		*89*	*21-184*			
Terphenyl-d14	*1.2*			*mg/kg wet*	*1.67*		*74*	*54-124*			

Matrix Spike (3J08009-MS1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 12:23

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.8		0.41	mg/kg dry	2.07	0.031 U	87	62-95			
4-Chloro-3-methylphenol	2.0		0.41	mg/kg dry	2.07	0.041 U	94	62-108			
4-Nitrophenol	1.9		0.41	mg/kg dry	2.07	0.039 U	90	21-97			
Acenaphthene	1.9		0.41	mg/kg dry	2.07	0.035 U	90	63-101			
Hexachlorocyclopentadiene	1.7		0.41	mg/kg dry	2.07	0.048 U	83	17-111			
N-Nitroso-di-n-propylamine	1.9		0.41	mg/kg dry	2.07	0.10 U	92	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.9		0.41	mg/kg dry	2.07	0.067 U	92	0-200			
Pentachlorophenol	1.6		0.41	mg/kg dry	2.07	0.041 U	77	25-120			
Phenol	1.8		0.41	mg/kg dry	2.07	0.027 U	86	31-78			QL-02
2,4,6-Tribromophenol	*3.6*			*mg/kg dry*	*4.14*		*86*	*42-123*			
2-Fluorobiphenyl	*1.9*			*mg/kg dry*	*2.07*		*91*	*49-105*			
2-Fluorophenol	*3.5*			*mg/kg dry*	*4.14*		*85*	*28-95*			
Nitrobenzene-d5	*1.9*			*mg/kg dry*	*2.07*		*90*	*50-117*			
Phenol-d5	*3.7*			*mg/kg dry*	*4.14*		*89*	*21-184*			
Terphenyl-d14	*1.7*			*mg/kg dry*	*2.07*		*80*	*54-124*			

Matrix Spike Dup (3J08009-MSD1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 12:52

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.8		0.41	mg/kg dry	2.07	0.031 U	85	62-95	2	28	
4-Chloro-3-methylphenol	1.9		0.41	mg/kg dry	2.07	0.041 U	94	62-108	0.7	39	
4-Nitrophenol	1.8		0.41	mg/kg dry	2.07	0.039 U	89	21-97	0.8	43	
Acenaphthene	1.8		0.41	mg/kg dry	2.07	0.035 U	89	63-101	2	28	
Hexachlorocyclopentadiene	1.7		0.41	mg/kg dry	2.07	0.048 U	80	17-111	4	50	
N-Nitroso-di-n-propylamine	1.9		0.41	mg/kg dry	2.07	0.10 U	91	57-106	0.7	34	
N-nitrosodiphenylamine/Diphenylamine	1.9		0.41	mg/kg dry	2.07	0.067 U	90	0-200	2	200	
Pentachlorophenol	1.6		0.41	mg/kg dry	2.07	0.041 U	76	25-120	1	49	
Phenol	1.8		0.41	mg/kg dry	2.07	0.027 U	85	31-78	0.9	29	QL-02
2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*4.14*		*85*	*42-123*			
2-Fluorobiphenyl	*1.8*			*mg/kg dry*	*2.07*		*86*	*49-105*			
2-Fluorophenol	*3.3*			*mg/kg dry*	*4.14*		*80*	*28-95*			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J08009 - EPA 3550C_MS - Continued

Matrix Spike Dup (3J08009-MSD1) Continued Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 12:52

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrobenzene-d5	*1.8*			*mg/kg dry*	*2.07*		*85*	*50-117*			
Phenol-d5	*3.6*			*mg/kg dry*	*4.14*		*87*	*21-184*			
Terphenyl-d14	*1.6*			*mg/kg dry*	*2.07*		*79*	*54-124*			

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 3J03011 - EPA 3550C_MS

Blank (3J03011-BLK1) Prepared: 10/03/2013 09:39 Analyzed: 10/08/2013 11:44

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Cyclohexene	**0.21**	**JN**		mg/kg wet							

Batch 3J08009 - EPA 3550C_MS

Blank (3J08009-BLK1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorocyclohexanol	**0.19**	**JN**		mg/kg wet							

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J15010 - EPA 7471B

Blank (3J15010-BLK1) Prepared: 10/15/2013 10:05 Analyzed: 10/17/2013 13:20

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00690	U	0.0240	mg/kg wet							

LCS (3J15010-BS1) Prepared: 10/15/2013 10:05 Analyzed: 10/17/2013 13:27

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.714		0.0240	mg/kg wet	0.600		119	80-120			

Matrix Spike (3J15010-MS1) Prepared: 10/15/2013 10:05 Analyzed: 10/17/2013 13:31

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	1.14		0.0315	mg/kg dry	0.814	0.177	119	80-120			

Matrix Spike Dup (3J15010-MSD1) Prepared: 10/15/2013 10:05 Analyzed: 10/17/2013 13:33

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.966		0.0315	mg/kg dry	0.787	0.177	100	80-120	17	20	

Post Spike (3J15010-PS1) Prepared: 10/15/2013 10:05 Analyzed: 10/17/2013 13:35

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.51		0.200	ug/L	5.00	1.16	107	75-125			

Batch 3K07027 - EPA 3050B

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Blank (3K07027-BLK1)

Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:34

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.110	U	1.00	mg/kg wet							
Arsenic	0.100	U	0.500	mg/kg wet							
Beryllium	0.0120	U	0.0500	mg/kg wet							
Cadmium	0.00960	U	0.0500	mg/kg wet							
Chromium	0.100	U	0.500	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Iron	**0.995**	**J**	2.50	mg/kg wet							
Lead	0.120	U	0.500	mg/kg wet							
Manganese	0.100	U	0.500	mg/kg wet							
Nickel	0.360	U	2.50	mg/kg wet							
Selenium	**0.165**	**J**	0.500	mg/kg wet							
Silver	0.100	U	0.500	mg/kg wet							
Thallium	0.100	U	0.500	mg/kg wet							
Zinc	1.10	U	2.50	mg/kg wet							

LCS (3K07027-BS1)

Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:44

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	8.63		1.00	mg/kg wet	10.0		86	80-120			
Arsenic	8.46		0.500	mg/kg wet	10.0		85	80-120			
Beryllium	0.836		0.0500	mg/kg wet	1.00		84	80-120			
Cadmium	0.867		0.0500	mg/kg wet	1.00		87	80-120			
Chromium	8.66		0.500	mg/kg wet	10.0		87	80-120			
Copper	8.64		0.500	mg/kg wet	10.0		86	80-120			
Iron	47.0	B	2.50	mg/kg wet	50.0		94	80-120			
Lead	8.87		0.500	mg/kg wet	10.0		89	80-120			
Manganese	8.49		0.500	mg/kg wet	10.0		85	80-120			
Nickel	8.91		2.50	mg/kg wet	10.0		89	80-120			
Selenium	8.56	B	0.500	mg/kg wet	10.0		86	80-120			
Silver	8.83		0.500	mg/kg wet	10.0		88	80-120			
Thallium	8.73		0.500	mg/kg wet	10.0		87	80-120			
Zinc	8.81		2.50	mg/kg wet	10.0		88	80-120			

Matrix Spike (3K07027-MS1)

Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:50

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	3.62	JD	13.1	mg/kg dry	13.1	1.44 U	28	75-125			QM-05
Arsenic	18.6	D	6.55	mg/kg dry	13.1	9.96	66	75-125			QM-05
Beryllium	1.21	D	0.655	mg/kg dry	1.31	0.213	76	75-125			
Cadmium	2.12	D	0.655	mg/kg dry	1.31	1.52	46	75-125			QM-05
Chromium	21.4	D	6.55	mg/kg dry	13.1	15.3	46	75-125			QM-05
Copper	53.1	D	6.55	mg/kg dry	13.1	83.7	NR	75-125			QM-05
Iron	20500	BD	32.8	mg/kg dry	65.5	34100	NR	75-125			QM-05
Lead	227	D	6.55	mg/kg dry	13.1	343	NR	75-125			QM-05
Manganese	166	D	6.55	mg/kg dry	13.1	204	NR	75-125			QM-05
Nickel	17.8	JD	32.8	mg/kg dry	13.1	10.8	53	75-125			QM-05
Selenium	11.6	BD	6.55	mg/kg dry	13.1	1.31 U	88	75-125			
Silver	12.7	D	6.55	mg/kg dry	13.1	1.69	84	75-125			
Thallium	10.5	D	6.55	mg/kg dry	13.1	3.07	57	75-125			QM-05
Zinc	593	D	32.8	mg/kg dry	13.1	803	NR	75-125			QM-05

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3K07027 - EPA 3050B - Continued

Matrix Spike Dup (3K07027-MSD1) Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:52

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	1.44	UD	13.1	mg/kg dry	13.2	1.44 U		75-125		20	QM-05
Arsenic	22.0	D	6.55	mg/kg dry	13.2	9.96	91	75-125	17	20	
Beryllium	1.35	D	0.655	mg/kg dry	1.32	0.213	86	75-125	11	20	
Cadmium	2.69	D	0.655	mg/kg dry	1.32	1.52	89	75-125	24	20	QM-11
Chromium	38.8	D	6.55	mg/kg dry	13.2	15.3	178	75-125	58	20	QM-05, QM-11
Copper	1850	D	6.55	mg/kg dry	13.2	83.7	NR	75-125	189	20	QM-05, QM-11
Iron	42900	BD	32.8	mg/kg dry	66.2	34100	NR	75-125	71	20	QM-05, QM-11
Lead	358	D	6.55	mg/kg dry	13.2	343	111	75-125	45	20	QM-11
Manganese	213	D	6.55	mg/kg dry	13.2	204	66	75-125	25	20	QM-05, QM-11
Nickel	23.2	JD	32.8	mg/kg dry	13.2	10.8	94	75-125	26	20	QM-11
Selenium	8.39	BD	6.55	mg/kg dry	13.2	1.31 U	63	75-125	32	20	QM-05, QM-11
Silver	13.9	D	6.55	mg/kg dry	13.2	1.69	93	75-125	10	20	
Thallium	11.6	D	6.55	mg/kg dry	13.2	3.07	64	75-125	9	20	QM-05
Zinc	718	D	32.8	mg/kg dry	13.2	803	NR	75-125	19	20	QM-05

Post Spike (3K07027-PS1) Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:54

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.0999	D	0.0200	mg/L	0.200	-0.0662	83	80-120			
Arsenic	0.337	D	0.0100	mg/L	0.200	0.150	93	80-120			
Beryllium	0.0212	D	0.00100	mg/L	0.0200	0.00322	90	80-120			
Cadmium	0.0377	D	0.00100	mg/L	0.0200	0.0229	74	80-120			QM-08
Chromium	0.407	D	0.0100	mg/L	0.200	0.231	88	80-120			
Copper	1.45	D	0.0100	mg/L	0.200	1.26	95	80-120			
Iron	502	BD	0.0500	mg/L	1.00	515	NR	80-120			QM-08
Lead	5.24	D	0.0100	mg/L	0.200	5.19	30	80-120			QM-08
Manganese	3.19	D	0.0100	mg/L	0.200	3.08	54	80-120			QM-08
Nickel	0.353	D	0.0500	mg/L	0.200	0.164	95	80-120			
Selenium	0.180	BD	0.0100	mg/L	0.200	0.00582	87	80-120			
Silver	0.208	D	0.0100	mg/L	0.200	0.0255	91	80-120			
Thallium	0.195	D	0.0100	mg/L	0.200	0.0464	74	80-120			QM-08
Zinc	12.0	D	0.0500	mg/L	0.200	12.1	NR	80-120			QM-08

Classical Chemistry Parameters - Quality Control

Batch 3J04010 - WETS-88 Soil Leaching

Blank (3J04010-BLK1) Prepared: 10/04/2013 10:51 Analyzed: 10/04/2013 12:46

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.45	U	1.0	mg/kg wet							

LCS (3J04010-BS1) Prepared: 10/04/2013 10:51 Analyzed: 10/04/2013 12:48

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	10		1.0	mg/kg wet	9.96		105	90-110			

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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 3J04010 - WETS-88 Soil Leaching - Continued

Matrix Spike (3J04010-MS1) Prepared: 10/04/2013 10:51 Analyzed: 10/04/2013 12:52

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	12		1.3	mg/kg dry	5.21	16	NR	90-110			QM-16

Matrix Spike Dup (3J04010-MSD1) Prepared: 10/04/2013 10:51 Analyzed: 10/04/2013 12:54

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	9.7		1.3	mg/kg dry	5.23	16	NR	90-110	22	10	QM-11, QM-16

Batch 3J04022 - NO PREP

Blank (3J04022-BLK1) Prepared: 10/04/2013 10:51 Analyzed: 10/04/2013 18:41

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	2.0	U	10	mg/kg wet							
Sulfate as SO4	29	U	50	mg/kg wet							

LCS (3J04022-BS1) Prepared: 10/04/2013 10:51 Analyzed: 10/04/2013 18:59

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	47		10	mg/kg wet	49.8		95	80-120			
Sulfate as SO4	480		50	mg/kg wet	498		97	80-120			

Matrix Spike (3J04022-MS1) Prepared: 10/04/2013 10:51 Analyzed: 10/04/2013 19:16

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	24		13	mg/kg dry	26.1	2.7 U	93	80-120			
Sulfate as SO4	330		66	mg/kg dry	261	130	76	80-120			QM-05

Matrix Spike Dup (3J04022-MSD1) Prepared: 10/04/2013 10:51 Analyzed: 10/04/2013 19:34

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	25		13	mg/kg dry	26.1	2.7 U	94	80-120	1	15	
Sulfate as SO4	360		66	mg/kg dry	261	130	86	80-120	8	15	

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J08019 - EPA 3050B

Blank (3J08019-BLK1) Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 10:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.200	U	0.500	mg/kg wet							
Arsenic	0.510	U	1.00	mg/kg wet							
Beryllium	0.100	U	2.00	mg/kg wet							
Cadmium	0.130	U	1.00	mg/kg wet							
Chromium	0.550	U	5.00	mg/kg wet							
Copper	0.220	U	1.00	mg/kg wet							
Iron	1.70	U	5.00	mg/kg wet							
Lead	0.240	U	5.00	mg/kg wet							

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J08019 - EPA 3050B - Continued

Blank (3J08019-BLK1) Continued Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 10:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Manganese	0.280	U	1.00	mg/kg wet							
Nickel	0.250	U	1.00	mg/kg wet							
Selenium	0.910	U	1.00	mg/kg wet							
Silver	0.0550	U	0.500	mg/kg wet							
Thallium	0.0370	U	1.00	mg/kg wet							
Zinc	1.30	U	5.00	mg/kg wet							

LCS (3J08019-BS1) Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 10:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.17		0.500	mg/kg wet	5.00		103	80-120			
Arsenic	49.9		1.00	mg/kg wet	50.0		100	80-120			
Beryllium	5.08		2.00	mg/kg wet	5.00		102	80-120			
Cadmium	4.93		1.00	mg/kg wet	5.00		99	80-120			
Chromium	50.5		5.00	mg/kg wet	50.0		101	80-120			
Copper	50.2		1.00	mg/kg wet	50.0		100	80-120			
Iron	103		5.00	mg/kg wet	100		103	80-120			
Lead	50.3		5.00	mg/kg wet	50.0		101	80-120			
Manganese	50.4		1.00	mg/kg wet	50.0		101	80-120			
Nickel	50.2		1.00	mg/kg wet	50.0		100	80-120			
Selenium	49.5		1.00	mg/kg wet	50.0		99	80-120			
Silver	5.19		0.500	mg/kg wet	5.00		104	80-120			
Thallium	5.26		1.00	mg/kg wet	5.00		105	80-120			
Zinc	48.9		5.00	mg/kg wet	50.0		98	80-120			

Matrix Spike (3J08019-MS1) Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 11:16

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.24	UD	13.1	mg/kg dry	6.36	5.24 U		75-125			QM-07
Arsenic	60.1	D	26.2	mg/kg dry	63.6	13.4 U	94	75-125			
Beryllium	5.43	JD	52.4	mg/kg dry	6.36	2.62 U	85	75-125			
Cadmium	9.73	JD	26.2	mg/kg dry	6.36	3.41 U	153	75-125			QM-07, QM-11
Chromium	99.0	JD	131	mg/kg dry	63.6	20.7	123	75-125			
Copper	221	D	26.2	mg/kg dry	63.6	82.7	218	75-125			QM-07
Iron	51200	DE	131	mg/kg dry	127	48300	NR	75-125			E, QM-11, QM-17
Lead	678	D	131	mg/kg dry	63.6	587	142	75-125			QM-07
Manganese	508	D	26.2	mg/kg dry	63.6	355	240	75-125			QM-07
Nickel	78.7	D	26.2	mg/kg dry	63.6	15.9	99	75-125			
Selenium	28.0	D	26.2	mg/kg dry	63.6	23.9 U	44	75-125			QM-07
Silver	6.26	JD	13.1	mg/kg dry	6.36	1.44 U	98	75-125			
Thallium	6.60	JD	26.2	mg/kg dry	6.36	0.970 U	104	75-125			
Zinc	1450	D	131	mg/kg dry	63.6	1090	563	75-125			QM-07, QM-11

Matrix Spike Dup (3J08019-MSD1) Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 11:20

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J08019 - EPA 3050B - Continued

Matrix Spike Dup (3J08019-MSD1) Continued Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 11:20

Source: C312834-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.24	UD	13.1	mg/kg dry	6.30	5.24 U		75-125		20	QM-07
Arsenic	57.2	D	26.2	mg/kg dry	63.0	13.4 U	91	75-125	5	20	
Beryllium	4.68	JD	52.4	mg/kg dry	6.30	2.62 U	74	75-125	15	20	QM-07
Cadmium	7.84	JD	26.2	mg/kg dry	6.30	3.41 U	124	75-125	22	20	QM-11
Chromium	82.8	JD	131	mg/kg dry	63.0	20.7	99	75-125	18	20	
Copper	180	D	26.2	mg/kg dry	63.0	82.7	155	75-125	20	20	QM-07
Iron	37000	DE	131	mg/kg dry	126	48300	NR	75-125	32	20	E, QM-11, QM-17
Lead	564	D	131	mg/kg dry	63.0	587	NR	75-125	18	20	QM-07
Manganese	429	D	26.2	mg/kg dry	63.0	355	117	75-125	17	20	
Nickel	77.3	D	26.2	mg/kg dry	63.0	15.9	97	75-125	2	20	
Selenium	23.9	UD	26.2	mg/kg dry	63.0	23.9 U		75-125		20	QM-07
Silver	5.91	JD	13.1	mg/kg dry	6.30	1.44 U	94	75-125	6	20	
Thallium	6.06	JD	26.2	mg/kg dry	6.30	0.970 U	96	75-125	9	20	
Zinc	958	D	131	mg/kg dry	63.0	1090	NR	75-125	41	20	QM-07, QM-11

Post Spike (3J08019-PS1) Prepared: 10/14/2013 09:00 Analyzed: 10/14/2013 11:24

Source: C312834-01

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	4.93		0.500	ug/L	4.90	0.0317	100	80-120			
Arsenic	50.9		1.00	ug/L	49.0	0.395	103	80-120			
Beryllium	5.29		2.00	ug/L	4.90	-0.0599	109	80-120			
Cadmium	5.03		1.00	ug/L	4.90	0.0585	101	80-120			
Chromium	49.7		5.00	ug/L	49.0	0.766	100	80-120			
Copper	51.9		1.00	ug/L	49.0	3.06	100	80-120			
Iron	1920	E	5.00	ug/L	98.0	1790	129	80-120			E, QM-08
Lead	71.0		5.00	ug/L	49.0	21.7	100	80-120			
Manganese	61.8		1.00	ug/L	49.0	13.2	99	80-120			
Nickel	48.0		1.00	ug/L	49.0	0.588	97	80-120			
Selenium	54.4		1.00	ug/L	49.0	-0.0339	111	80-120			
Silver	5.00		0.500	ug/L	4.90	-0.00755	102	80-120			
Thallium	4.92		1.00	ug/L	4.90	-0.0120	101	80-120			
Zinc	90.6		5.00	ug/L	49.0	40.3	103	80-120			

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FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.
QM-17	Matrix spike recovery was outside acceptance limits due to high concentrations of analyte in source sample.
QS-03	Surrogate recovery outside acceptance limits
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

www.encolabs.com

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(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-11-1019
Address: 3201 Spring Forest Road	Project Name/Desc: Spring Hope Dump
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Gerald Paul
Sampler(s) Name, Affiliation (Print): Alex Culpepper S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: Alex Culpepper	Site Location / Time Zone: Spring Hope, NC (Easton)

Requested Analyses

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C312834

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2	8260B TCL SOM01.2 8260B TICs	8260B TICs	Ammonia 350.1	Sample Comments
	SB-1 (1-2)	10/3/13	1505	Grab	SO	5	X	X	X	X	
	SB-1 (5-6)	↓	1510	↓	SO	5	X	X	X	X	
	SB-1 (9-10)	↓	1515	↓	SO	5	X	X	X	X	
	~~SB-2~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-2~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-2~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-3~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-3~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-3~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-4~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-4~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-4~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
						15	<-- Total # of Containers				

Sample Kit Prepared By: CS	Date/Time: 10/2/13	Relinquished By: Alex Culpepper	Date/Time: 10/3/13 1645
Comments/Special Reporting Requirements:		Relinquished By:	Date/Time:
		Relinquished By:	Date/Time:

Received By: [signature]	Date/Time: 10/3 1830
Received By:	Date/Time:
Received By:	Date/Time:

Cooler #'s & Temps on Receipt: C-124, C-404, C-102, ESC 1.3°, C-212

Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Port Dr.
Orlando, FL 32824
(407) 826-5314 Fax (407) 850-6945

4810 Executive Park Court, Suite 111
Jacksonville, FL 32216-6069
(904) 296-3007 Fax (904) 296-6210

102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: S&ME, Inc. (SM001)	Project Number: 1054-11-1019
Address: 3201 Spring Forest Road	Project Name/Desc: Spring Hope Dump
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Gerald Paul
Sampler(s) Name, Affiliation (Print): Alex Culpepper S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: Alex Culpepper	Site Location / Time Zone: Spring Hope, NC (Eastern)

Requested Analyses: 8260B TCL SOM01.2; 8260B TCL SOM01.2, 8260B TICs; 8260B TICs; Ammonia 350.1

Requested Turnaround Times: Note: Rush requests subject to acceptance by the facility. ✓ Standard ___ Expedited Due ___/___/___

Lab Workorder: C312834

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2	8260B TCL SOM01.2, 8260B TICs	8260B TICs	Ammonia 350.1	Sample Comments
	~~SB-5~~				SO	5	X	X	X	X	
	~~SB-5~~				SO	5	X	X	X	X	
	~~SB-5~~				SO	5	X	X	X	X	
	SB-6 (1-2)	10/3/13	1345	Grab	SO	5	X	X	X	X	
	SB-6 (5-6)	↓	1350	↓	SO	5	X	X	X	X	
	SB-6 (9-10)	↓	1355	↓	SO	5	X	X	X	X	
	SB-7 (1-2)	10/3/13	1015	Grab	SO	5	X	X	X	X	
	SB-7 (5-6)	↓	1020	↓	SO	5	X	X	X	X	
	SB-7 (9-10)	↓	1025	↓	SO	5	X	X	X	X	
	~~SB-8~~				SO	5	X	X	X	X	
	~~SB-8~~				SO	5	X	X	X	X	
	~~SB-8~~				SO	5	X	X	X	X	
						30	<-- Total # of Containers				

Sample Kit Prepared By: CS	Date/Time: 10/2/13	Relinquished By: Alex Culpepper	Date/Time: 10/3/13 1645	Received By: [illegible]	Date/Time: 10/3 1830
Comments/Special Reporting Requirements:		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.3°C		Condition Upon Receipt: X Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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102-A Woodwinds Industrial Ct.
Cary, NC 27511
(919) 467-3090 Fax (919) 467-3515

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Client Name: S&ME, Inc. (SM001)	Project Number: 1054-11-1019
Address: 3201 Spring Forest Road	Project Name/Desc: Spring Hope Dump
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3953	Reporting Contact: Gerald Paul
Sampler(s) Name, Affiliation (Print): Alex Culpepper S&ME	Billing Contact: Accounts Payable
Sampler(s) Signature: Alex Culpepper	Site Location / Time Zone: Spring Hope, NC (Eastern)

Requested Analyses: 8260B TCL SOM01.2; 8260B TCL SOM01.2,8260B TICs; 8260B TICs; Ammonia 350.1

Requested Turnaround Times

Note: Rush requests subject to acceptance by the facility

✓ Standard

___ Expedited

Due ___/___/___

Lab Workorder: C312834

Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2	8260B TCL SOM01.2,8260B TICs	8260B TICs	Ammonia 350.1	Sample Comments
	SB-DUP-1	10/3/13	1615	Grab	SO	5	X	X	X	X	
	~~SB-DUP-1~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-DUP-1~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-DUP-2~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-DUP-2~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-DUP-2~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-DUP-3~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-DUP-3~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB-DUP-3~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	Trip Blank	10/3/13	NA	NA	WA	2		X			
	~~SB~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
	~~SB~~				~~SO~~	~~5~~	~~X~~	~~X~~	~~X~~	~~X~~	
						AC ~~12~~ 7	<-- Total # of Containers				

Sample Kit Prepared By: CS	Date/Time: 10/2/13	Relinquished By: Alex Culpepper	Date/Time: 10/3/13 1645	Received By: [illegible]	Date/Time: 10/3 1830
Comments/Special Reporting Requirements:		Relinquished By	Date/Time	Received By	Date/Time
		Relinquished By	Date/Time	Received By	Date/Time
		Cooler #'s & Temps on Receipt: 1.3°C		Condition Upon Receipt: ✓ Acceptable ___ Unacceptable	

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments) Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist

ENCO Laboratories

Accurate. Timely. Responsive. Innovative.

102-A Woodwinds Industrial Court
Cary NC, 27511
Phone: 919.467.3090 FAX: 919.467.3515

Tuesday, November 19, 2013
S&ME, Inc. (SM001)
Attn: Gerald Paul
3201 Spring Forest Road
Raleigh, NC 27616

RE: Laboratory Results for
Project Number: 1054-11-1019, Project Name/Desc: Spring Hope Dump
ENCO Workorder(s): C313029

Dear Gerald Paul,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, October 4, 2013.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

Chuck Smith

Project Manager

Enclosure(s)

PROJECT NARRATIVE

Client: S&ME, Inc. (SM001)
Project: Spring Hope Dump

Overview

Environmental Conservation Laboratories, Inc. (ENCO) analyzed all submitted samples in accordance with the methods referenced in the laboratory report. Any particular difficulties encountered during sample handling by ENCO are discussed in the QC Remarks section below.

Quality Control Samples

No Comments

Quality Control Remarks

No Comments

Other Comments

All soil 6010 analyses were diluted 2X due to matrix interference.

All soil Method 6020 results have been reported at 20X dilutions due to matrix interference associated with high concentrations of non-target analytes.

All acronyms, data flags and notes are defined with the exception of MDL (Method Detection Limit) and PQL (Practical Quantitation Limit). The MDL is a statistical value that represents the minimum level at which the analyte can be detected with 99% confidence. The PQL (or MRL) is the lowest point of the calibration curve. ug/L = micrograms/liter, mg/L = milligrams/liter, RPD = Relative Percent Difference, DF = Dilution Factor, % Rec = Percent Recovery, EPA = United States Environmental Protection Agency and N = Tentatively Identified Compound (TIC).

The analytical data presented in this report are consistent with the methods as referenced in the analytical report. Any exceptions or deviations are noted in the QC remarks section of this narrative or in the Flags/Notes and Definitions section of the report.

Released By:
Environmental Conservation Laboratories, Inc.

Chuck Smith
Project Manager

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-3 (1-2) **Lab ID: C313029-01** **Sampled: 10/04/13 09:00** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:33
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 12:42
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:21
EPA 8260B	10/18/13			10/10/13	12:34	10/10/13 22:04
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 13:20
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 11:59
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 11:59

Client ID: SB-3 (1-2) **Lab ID: C313029-01RE1** **Sampled: 10/04/13 09:00** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 13:38

Client ID: SB-3 (5-6) **Lab ID: C313029-02** **Sampled: 10/04/13 09:05** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:40
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 12:46
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:32
EPA 8260B	10/18/13			10/10/13	12:34	10/10/13 22:34
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 14:47
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 12:16
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 12:16

Client ID: SB-3 (5-6) **Lab ID: C313029-02RE1** **Sampled: 10/04/13 09:05** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 13:41

Client ID: SB-3 (9-10) **Lab ID: C313029-03** **Sampled: 10/04/13 09:07** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:42
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 12:49
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:34
EPA 8260B	10/18/13			10/10/13	15:09	10/11/13 03:27
EPA 8260B	10/18/13			10/11/13	10:44	10/11/13 03:27
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 15:16
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 12:34
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 12:34

Client ID: SB-3 (9-10) **Lab ID: C313029-03RE1** **Sampled: 10/04/13 09:07** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 13:43

Client ID: SB-5 (1-2) **Lab ID: C313029-04** **Sampled: 10/04/13 10:45** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:44
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 12:53
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:41
EPA 8260B	10/18/13			10/10/13	15:09	10/11/13 03:57
EPA 8260B	10/18/13			10/11/13	10:44	10/11/13 03:57
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 15:45
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 12:51
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 12:51

Client ID: SB-5 (1-2) **Lab ID: C313029-04RE1** **Sampled: 10/04/13 10:45** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 13:45

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: SB-5 (6-7) **Lab ID: C313029-05** **Sampled: 10/04/13 10:47** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:46
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 12:57
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:43
EPA 8260B	10/18/13			10/10/13	15:09	10/11/13 04:26
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 16:13
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 13:09
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 13:09

Client ID: SB-5 (6-7) **Lab ID: C313029-05RE1** **Sampled: 10/04/13 10:47** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 13:47

Client ID: SB-5 (9-10) **Lab ID: C313029-06** **Sampled: 10/04/13 10:50** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:48
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 13:01
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:46
EPA 8260B	10/18/13			10/10/13	15:09	10/11/13 04:55
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 16:42
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 13:26
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 13:26

Client ID: SB-5 (9-10) **Lab ID: C313029-06RE1** **Sampled: 10/04/13 10:50** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 13:50

Client ID: SB-4 (1-2) **Lab ID: C313029-07** **Sampled: 10/04/13 11:30** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:54
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 13:05
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:48
EPA 8260B	10/18/13			10/10/13	15:09	10/11/13 05:24
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 19:05
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 14:19
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 14:19

Client ID: SB-4 (1-2) **Lab ID: C313029-07RE1** **Sampled: 10/04/13 11:30** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 13:52

Client ID: SB-4 (1-2) **Lab ID: C313029-07RE2** **Sampled: 10/04/13 11:30** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 16:04

Client ID: SB-2 (1-2) **Lab ID: C313029-08** **Sampled: 10/04/13 13:00** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:56
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 13:09
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:50
EPA 8260B	10/18/13			10/10/13	15:09	10/11/13 05:54
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 18:37
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 14:36
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 14:36

Client ID: SB-2 (1-2) **Lab ID: C313029-08RE1** **Sampled: 10/04/13 13:00** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)	Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13 13:19	11/14/13 13:54

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SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID: Dup 2 **Lab ID: C313029-09** **Sampled: 10/04/13 09:00** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)			Prep Date/Time(s)		Analysis Date/Time(s)
EPA 350.1	11/01/13	11/07/13		10/10/13	09:24	10/11/13 11:58
EPA 6020A	04/02/14			10/08/13	14:42	10/14/13 13:13
EPA 7471B	11/01/13			10/15/13	10:07	10/17/13 14:52
EPA 8260B	10/18/13			10/10/13	15:09	10/11/13 06:23
EPA 8270D	10/18/13	11/17/13		10/08/13	09:44	10/09/13 17:11
EPA 9056A	11/01/13	10/12/13	09:24	10/10/13	09:24	10/10/13 14:53
EPA 9056A	11/01/13	11/07/13		10/10/13	09:24	10/10/13 14:53

Client ID: Dup 2 **Lab ID: C313029-09RE1** **Sampled: 10/04/13 09:00** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 6010C	04/02/14	11/07/13	13:19	11/14/13 13:57

Client ID: Trip Blank **Lab ID: C313029-10** **Sampled: 10/04/13 09:00** **Received: 10/04/13 18:30**

Parameter	Hold Date/Time(s)	Prep Date/Time(s)		Analysis Date/Time(s)
EPA 8260B	10/18/13	10/07/13	17:14	10/08/13 21:38

SAMPLE DETECTION SUMMARY

Client ID: SB-3 (1-2) **Lab ID: C313029-01**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
.alpha.-Pinene	0.0039	JN			mg/kg dry	EPA 8260B	
2-Butanone	0.21		0.0007	0.0047	mg/kg dry	EPA 8260B	
3 & 4-Methylphenol	0.28	J	0.032	0.50	mg/kg dry	EPA 8270D	
3-Carene	0.0072	JN			mg/kg dry	EPA 8260B	
3-Eicosene, (E)-	0.20	JN			mg/kg dry	EPA 8270D	
Acetone	0.26		0.0013	0.0047	mg/kg dry	EPA 8260B	
Ammonia as N	7.5		0.56	1.2	mg/kg dry	EPA 350.1	
Benzo(a)anthracene	0.055	J	0.035	0.41	mg/kg dry	EPA 8270D	
Benzo(a)pyrene	0.060	J	0.041	0.41	mg/kg dry	EPA 8270D	
Benzo(b)fluoranthene	0.11	J	0.022	0.41	mg/kg dry	EPA 8270D	
Benzo(k)fluoranthene	0.058	J	0.041	0.41	mg/kg dry	EPA 8270D	
Bicyclo[2.2.1]heptane, 7,7-...	0.0070	JN			mg/kg dry	EPA 8260B	
Bicyclo[3.1.1]heptane, 6,6-...	0.0048	JN			mg/kg dry	EPA 8260B	
Chrysene	0.10	J	0.037	0.41	mg/kg dry	EPA 8270D	
Copper - Total	6.21	JD	5.35	24.3	mg/kg dry	EPA 6020A	R-01
Cyclohexene	0.21	JN			mg/kg dry	EPA 8270D	
Erucylamide	0.76	JN			mg/kg dry	EPA 8270D	
Fluoranthene	0.22	J	0.045	0.41	mg/kg dry	EPA 8270D	
Heneicosane	0.35	JN			mg/kg dry	EPA 8270D	
Iron - Total	5970	D	41.4	122	mg/kg dry	EPA 6020A	R-01
Lead - Total	38.3	JD	5.84	122	mg/kg dry	EPA 6020A	R-01
Manganese - Total	56.0	D	6.81	24.3	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.214		0.00858	0.0298	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.90	JN			mg/kg dry	EPA 8270D	
Nitrate as N	2.3	J	0.8	12	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.93	JN			mg/kg dry	EPA 8270D	
Pentatriacontane	0.44	JN			mg/kg dry	EPA 8270D	
Phenanthrene	0.19	J	0.034	0.41	mg/kg dry	EPA 8270D	
Pyrene	0.18	J	0.047	0.41	mg/kg dry	EPA 8270D	
Sulfate as SO4	58	J	36	62	mg/kg dry	EPA 9056A	
Toluene	0.018		0.0002	0.0009	mg/kg dry	EPA 8260B	
Zinc - Total	34.2	JD	31.6	122	mg/kg dry	EPA 6020A	R-01

Client ID: SB-3 (1-2) **Lab ID: C313029-01RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	4.21	D	0.249	1.24	mg/kg dry	EPA 6010C	
Beryllium - Total	0.264	D	0.0298	0.124	mg/kg dry	EPA 6010C	
Chromium - Total	11.7	D	0.249	1.24	mg/kg dry	EPA 6010C	
Copper - Total	5.70	D	0.472	1.24	mg/kg dry	EPA 6010C	
Iron - Total	19100	BD	1.19	6.22	mg/kg dry	EPA 6010C	
Lead - Total	24.3	D	0.298	1.24	mg/kg dry	EPA 6010C	
Manganese - Total	46.6	D	0.249	1.24	mg/kg dry	EPA 6010C	
Nickel - Total	1.90	JD	0.895	6.22	mg/kg dry	EPA 6010C	
Silver - Total	1.10	JD	0.249	1.24	mg/kg dry	EPA 6010C	
Zinc - Total	25.1	D	2.73	6.22	mg/kg dry	EPA 6010C	

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SAMPLE DETECTION SUMMARY

Client ID: SB-3 (5-6) **Lab ID: C313029-02**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
.alpha.-Pinene	0.039	JN			mg/kg dry	EPA 8260B	
.beta.-Pinene	0.045	JN			mg/kg dry	EPA 8260B	
2-Butanone	0.021		0.0007	0.0042	mg/kg dry	EPA 8260B	
3 & 4-Methylphenol	0.21	J	0.032	0.49	mg/kg dry	EPA 8270D	
3-Carene	0.045	JN			mg/kg dry	EPA 8260B	
Acetone	0.026		0.0012	0.0042	mg/kg dry	EPA 8260B	
Ammonia as N	2.5		0.55	1.2	mg/kg dry	EPA 350.1	
Bicyclo[2.2.1]heptane, 7,7-...	0.022	JN			mg/kg dry	EPA 8260B	
Camphene	0.0065	JN			mg/kg dry	EPA 8260B	
Cyclohexene, 1-methyl-4-(1-...	0.0021	JN			mg/kg dry	EPA 8260B	
D-Limonene	0.0091	JN			mg/kg dry	EPA 8260B	
Erucylamide	0.18	JN			mg/kg dry	EPA 8270D	
Iron - Total	5770	D	39.5	116	mg/kg dry	EPA 6020A	R-01
Lead - Total	13.0	JD	5.57	116	mg/kg dry	EPA 6020A	R-01
Manganese - Total	8.92	JD	6.50	23.2	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0847		0.00844	0.0294	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.46	JN			mg/kg dry	EPA 8270D	
Nitrate as N	2.2	J	0.8	12	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.46	JN			mg/kg dry	EPA 8270D	
Toluene	0.0027		0.0002	0.0008	mg/kg dry	EPA 8260B	

Client ID: SB-3 (5-6) **Lab ID: C313029-02RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	1.41	D	0.245	1.22	mg/kg dry	EPA 6010C	
Beryllium - Total	0.270	D	0.0294	0.122	mg/kg dry	EPA 6010C	
Chromium - Total	10.0	D	0.245	1.22	mg/kg dry	EPA 6010C	
Copper - Total	1.90	D	0.465	1.22	mg/kg dry	EPA 6010C	
Iron - Total	4520	BD	1.17	6.12	mg/kg dry	EPA 6010C	
Lead - Total	9.60	D	0.294	1.22	mg/kg dry	EPA 6010C	
Manganese - Total	12.3	D	0.245	1.22	mg/kg dry	EPA 6010C	
Nickel - Total	1.29	JD	0.881	6.12	mg/kg dry	EPA 6010C	
Silver - Total	0.374	JD	0.245	1.22	mg/kg dry	EPA 6010C	
Zinc - Total	5.95	JD	2.69	6.12	mg/kg dry	EPA 6010C	

Client ID: SB-3 (9-10) **Lab ID: C313029-03**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	38.9	D	14.3	28.1	mg/kg dry	EPA 6020A	R-01
Erucylamide	1.4	JN			mg/kg dry	EPA 8270D	
Iron - Total	15300	D	47.8	141	mg/kg dry	EPA 6020A	R-01
Lead - Total	20.8	JD	6.75	141	mg/kg dry	EPA 6020A	R-01
Manganese - Total	31.3	D	7.88	28.1	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0120	J	0.00943	0.0328	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.70	JN			mg/kg dry	EPA 8270D	
Nitrate as N	2.7	J	0.9	14	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.89	JN			mg/kg dry	EPA 8270D	

Client ID: SB-3 (9-10) **Lab ID: C313029-03RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	87.1	D	0.273	1.37	mg/kg dry	EPA 6010C	
Beryllium - Total	0.690	D	0.0328	0.137	mg/kg dry	EPA 6010C	
Chromium - Total	1.17	JD	0.273	1.37	mg/kg dry	EPA 6010C	
Copper - Total	2.90	D	0.520	1.37	mg/kg dry	EPA 6010C	
Iron - Total	23200	BD	1.31	6.84	mg/kg dry	EPA 6010C	
Lead - Total	65.6	D	0.328	1.37	mg/kg dry	EPA 6010C	
Manganese - Total	88.2	D	0.273	1.37	mg/kg dry	EPA 6010C	
Nickel - Total	1.89	JD	0.985	6.84	mg/kg dry	EPA 6010C	
Zinc - Total	40.7	D	3.01	6.84	mg/kg dry	EPA 6010C	

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SAMPLE DETECTION SUMMARY

Client ID: SB-5 (1-2) **Lab ID: C313029-04**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1-Docosene	0.72	JN			mg/kg dry	EPA 8270D	
Ammonia as N	1.7		0.39	0.87	mg/kg dry	EPA 350.1	
Erucylamide	0.39	JN			mg/kg dry	EPA 8270D	
Hentriacontane	0.35	JN			mg/kg dry	EPA 8270D	
Iron - Total	8570	D	43.5	128	mg/kg dry	EPA 6020A	R-01
Lead - Total	12.4	JD	6.15	128	mg/kg dry	EPA 6020A	R-01
Manganese - Total	54.8	D	7.17	25.6	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0591		0.00882	0.0307	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.32	JN			mg/kg dry	EPA 8270D	
Nitrate as N	1.8	J	0.6	8.7	mg/kg dry	EPA 9056A	
Octacosane	0.34	JN			mg/kg dry	EPA 8270D	
Sulfate as SO4	28	J	25	44	mg/kg dry	EPA 9056A	
Tricosane, 2-methyl-	0.51	JN			mg/kg dry	EPA 8270D	

Client ID: SB-5 (1-2) **Lab ID: C313029-04RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	4.08	D	0.256	1.28	mg/kg dry	EPA 6010C	
Beryllium - Total	0.158	D	0.0307	0.128	mg/kg dry	EPA 6010C	
Cadmium - Total	0.0519	JD	0.0245	0.128	mg/kg dry	EPA 6010C	
Chromium - Total	9.31	D	0.256	1.28	mg/kg dry	EPA 6010C	
Copper - Total	4.91	D	0.486	1.28	mg/kg dry	EPA 6010C	
Iron - Total	11800	BD	1.23	6.39	mg/kg dry	EPA 6010C	
Lead - Total	14.2	D	0.307	1.28	mg/kg dry	EPA 6010C	
Manganese - Total	87.6	D	0.256	1.28	mg/kg dry	EPA 6010C	
Nickel - Total	1.37	JD	0.921	6.39	mg/kg dry	EPA 6010C	
Silver - Total	0.668	JD	0.256	1.28	mg/kg dry	EPA 6010C	
Zinc - Total	21.1	D	2.81	6.39	mg/kg dry	EPA 6010C	

Client ID: SB-5 (6-7) **Lab ID: C313029-05**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Erucylamide	1.7	JN			mg/kg dry	EPA 8270D	
Iron - Total	2710	D	48.5	143	mg/kg dry	EPA 6020A	R-01
n-Hexadecanoic acid	0.66	JN			mg/kg dry	EPA 8270D	
Nitrate as N	2.4	J	0.8	12	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.79	JN			mg/kg dry	EPA 8270D	

Client ID: SB-5 (6-7) **Lab ID: C313029-05RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	1.39	D	0.278	1.39	mg/kg dry	EPA 6010C	
Beryllium - Total	0.0716	JD	0.0334	0.139	mg/kg dry	EPA 6010C	
Chromium - Total	2.24	D	0.278	1.39	mg/kg dry	EPA 6010C	
Copper - Total	0.857	JD	0.528	1.39	mg/kg dry	EPA 6010C	
Iron - Total	1110	BD	1.33	6.95	mg/kg dry	EPA 6010C	
Lead - Total	6.54	D	0.334	1.39	mg/kg dry	EPA 6010C	
Manganese - Total	3.61	D	0.278	1.39	mg/kg dry	EPA 6010C	
Selenium - Total	0.294	JBD	0.278	1.39	mg/kg dry	EPA 6010C	
Zinc - Total	3.46	JD	3.06	6.95	mg/kg dry	EPA 6010C	

Client ID: SB-5 (9-10) **Lab ID: C313029-06**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	26.4	JD	13.5	26.5	mg/kg dry	EPA 6020A	R-01
Erucylamide	1.3	JN			mg/kg dry	EPA 8270D	
Iron - Total	13900	D	45.1	133	mg/kg dry	EPA 6020A	R-01
Lead - Total	7.16	JD	6.37	133	mg/kg dry	EPA 6020A	R-01
Manganese - Total	85.7	D	7.43	26.5	mg/kg dry	EPA 6020A	R-01
n-Hexadecanoic acid	0.22	JN			mg/kg dry	EPA 8270D	
Nitrate as N	2.2	J	0.8	11	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.23	JN			mg/kg dry	EPA 8270D	

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SAMPLE DETECTION SUMMARY

Client ID: SB-5 (9-10) **Lab ID: C313029-06RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	48.0	D	0.264	1.32	mg/kg dry	EPA 6010C	
Beryllium - Total	0.289	D	0.0316	0.132	mg/kg dry	EPA 6010C	
Chromium - Total	2.18	D	0.264	1.32	mg/kg dry	EPA 6010C	
Copper - Total	5.13	D	0.501	1.32	mg/kg dry	EPA 6010C	
Iron - Total	14300	BD	1.27	6.59	mg/kg dry	EPA 6010C	
Lead - Total	2.17	D	0.316	1.32	mg/kg dry	EPA 6010C	
Manganese - Total	28.1	D	0.264	1.32	mg/kg dry	EPA 6010C	
Silver - Total	0.422	JD	0.264	1.32	mg/kg dry	EPA 6010C	
Thallium - Total	0.748	JD	0.264	1.32	mg/kg dry	EPA 6010C	
Zinc - Total	18.7	D	2.90	6.59	mg/kg dry	EPA 6010C	

Client ID: SB-4 (1-2) **Lab ID: C313029-07**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
9-Octadecenamide, (Z)-	1.0	JN			mg/kg dry	EPA 8270D	
Acetone	0.0072	J	0.0022	0.0077	mg/kg dry	EPA 8260B	
Ammonia as N	1.5		0.61	1.4	mg/kg dry	EPA 350.1	
Benzo(a)pyrene	0.12	J	0.10	1.0	mg/kg dry	EPA 8270D	
Benzo(b)fluoranthene	0.18	J	0.055	1.0	mg/kg dry	EPA 8270D	
Bis(2-ethylhexyl)phthalate	0.13	J	0.11	1.0	mg/kg dry	EPA 8270D	J-04
Chrysene	0.12	J	0.092	1.0	mg/kg dry	EPA 8270D	
Copper - Total	76.8	D	6.74	30.6	mg/kg dry	EPA 6020A	R-01
Dimethyl sulfide	0.022	JN			mg/kg dry	EPA 8260B	
Disulfide, dimethyl	0.0055	JN			mg/kg dry	EPA 8260B	
Fluoranthene	0.12	J	0.11	1.0	mg/kg dry	EPA 8270D	
Hexadecane	1.3	JN			mg/kg dry	EPA 8270D	
Iron - Total	13900	D	52.1	153	mg/kg dry	EPA 6020A	R-01
Lead - Total	96.2	JD	7.35	153	mg/kg dry	EPA 6020A	R-01
Manganese - Total	316	D	8.57	30.6	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.377		0.0106	0.0369	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.53	JN			mg/kg dry	EPA 8270D	
Nickel - Total	17.2	JD	7.66	30.6	mg/kg dry	EPA 6020A	R-01
Nitrate as N	7.5	J	0.9	14	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.42	JN			mg/kg dry	EPA 8270D	
Tricosane, 2-methyl-	1.1	JN			mg/kg dry	EPA 8270D	
Zinc - Total	289	D	39.8	153	mg/kg dry	EPA 6020A	R-01

Client ID: SB-4 (1-2) **Lab ID: C313029-07RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	4.09	D	0.308	1.54	mg/kg dry	EPA 6010C	
Beryllium - Total	0.164	D	0.0369	0.154	mg/kg dry	EPA 6010C	
Cadmium - Total	0.835	D	0.0295	0.154	mg/kg dry	EPA 6010C	
Chromium - Total	19.7	D	0.308	1.54	mg/kg dry	EPA 6010C	
Copper - Total	65.6	D	0.585	1.54	mg/kg dry	EPA 6010C	
Iron - Total	15800	BD	1.48	7.69	mg/kg dry	EPA 6010C	
Lead - Total	87.6	D	0.369	1.54	mg/kg dry	EPA 6010C	
Manganese - Total	341	D	0.308	1.54	mg/kg dry	EPA 6010C	
Nickel - Total	25.4	D	1.11	7.69	mg/kg dry	EPA 6010C	
Silver - Total	1.40	JD	0.308	1.54	mg/kg dry	EPA 6010C	
Zinc - Total	231	D	3.39	7.69	mg/kg dry	EPA 6010C	

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SAMPLE DETECTION SUMMARY

Client ID: SB-2 (1-2) **Lab ID: C313029-08**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Ammonia as N	1.2		0.37	0.83	mg/kg dry	EPA 350.1	
Benzo(a)anthracene	0.10	J	0.036	0.42	mg/kg dry	EPA 8270D	
Benzo(a)pyrene	0.12	J	0.042	0.42	mg/kg dry	EPA 8270D	
Benzo(b)fluoranthene	0.19	J	0.023	0.42	mg/kg dry	EPA 8270D	
Benzo(k)fluoranthene	0.073	J	0.042	0.42	mg/kg dry	EPA 8270D	
Bis(2-ethylhexyl)phthalate	0.29	J	0.045	0.42	mg/kg dry	EPA 8270D	J-04
Chrysene	0.12	J	0.038	0.42	mg/kg dry	EPA 8270D	
Copper - Total	11.8	JD	5.55	25.2	mg/kg dry	EPA 6020A	R-01
Docosane	0.74	JN			mg/kg dry	EPA 8270D	
Eicosane	0.22	JN			mg/kg dry	EPA 8270D	
Fluoranthene	0.22	J	0.046	0.42	mg/kg dry	EPA 8270D	
Heptadecane, 2,6,10,15-tetr...	0.47	JN			mg/kg dry	EPA 8270D	
Iron - Total	5390	D	42.9	126	mg/kg dry	EPA 6020A	R-01
Lead - Total	95.6	JD	6.06	126	mg/kg dry	EPA 6020A	R-01
Manganese - Total	84.4	D	7.07	25.2	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.110		0.00884	0.0308	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.66	JN			mg/kg dry	EPA 8270D	
Nitrate as N	2.5	J	0.6	8.3	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.64	JN			mg/kg dry	EPA 8270D	
Phenanthrene	0.15	J	0.035	0.42	mg/kg dry	EPA 8270D	
Pyrene	0.17	J	0.049	0.42	mg/kg dry	EPA 8270D	
Sulfate as SO4	51		24	42	mg/kg dry	EPA 9056A	
Zinc - Total	152	D	32.8	126	mg/kg dry	EPA 6020A	R-01

Client ID: SB-2 (1-2) **Lab ID: C313029-08RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	1.75	D	0.256	1.28	mg/kg dry	EPA 6010C	
Beryllium - Total	0.108	JD	0.0308	0.128	mg/kg dry	EPA 6010C	
Cadmium - Total	0.274	D	0.0246	0.128	mg/kg dry	EPA 6010C	
Chromium - Total	6.41	D	0.256	1.28	mg/kg dry	EPA 6010C	
Copper - Total	9.22	D	0.487	1.28	mg/kg dry	EPA 6010C	
Iron - Total	5800	BD	1.23	6.41	mg/kg dry	EPA 6010C	
Lead - Total	82.4	D	0.308	1.28	mg/kg dry	EPA 6010C	
Manganese - Total	66.1	D	0.256	1.28	mg/kg dry	EPA 6010C	
Nickel - Total	2.17	JD	0.923	6.41	mg/kg dry	EPA 6010C	
Selenium - Total	0.323	JBD	0.256	1.28	mg/kg dry	EPA 6010C	
Silver - Total	0.382	JD	0.256	1.28	mg/kg dry	EPA 6010C	
Zinc - Total	71.8	D	2.82	6.41	mg/kg dry	EPA 6010C	

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SAMPLE DETECTION SUMMARY

Client ID: Dup 2 **Lab ID: C313029-09**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
1R-.alpha.-Pinene	0.017	JN			mg/kg dry	EPA 8260B	
2-Butanone	0.30		0.0008	0.0050	mg/kg dry	EPA 8260B	
3 & 4-Methylphenol	0.25	J	0.031	0.47	mg/kg dry	EPA 8270D	
3-Carene	0.019	JN			mg/kg dry	EPA 8260B	
Acetone	0.40		0.0014	0.0050	mg/kg dry	EPA 8260B	
Ammonia as N	5.9		0.53	1.2	mg/kg dry	EPA 350.1	
Bicyclo[2.2.1]heptane, 7,7-...	0.016	JN			mg/kg dry	EPA 8260B	
Bicyclo[3.1.1]heptane, 6,6-...	0.022	JN			mg/kg dry	EPA 8260B	
Copper - Total	6.29	JD	5.24	23.8	mg/kg dry	EPA 6020A	R-01
Cyclohexene, 1-methyl-4-(1-...	0.0030	JN			mg/kg dry	EPA 8260B	
Eicosane	0.19	JBN			mg/kg dry	EPA 8270D	B
Iron - Total	6950	D	40.5	119	mg/kg dry	EPA 6020A	R-01
Lead - Total	34.9	JD	5.71	119	mg/kg dry	EPA 6020A	R-01
Manganese - Total	54.0	D	6.67	23.8	mg/kg dry	EPA 6020A	R-01
Mercury - Total	0.0522		0.00818	0.0285	mg/kg dry	EPA 7471B	
n-Hexadecanoic acid	0.85	JN			mg/kg dry	EPA 8270D	
Nitrate as N	2.0	J	0.8	12	mg/kg dry	EPA 9056A	
Octadecanoic acid	0.83	JN			mg/kg dry	EPA 8270D	
Pentacosane	0.16	JN			mg/kg dry	EPA 8270D	
Toluene	0.015		0.0002	0.0010	mg/kg dry	EPA 8260B	
Zinc - Total	82.0	JD	31.0	119	mg/kg dry	EPA 6020A	R-01

Client ID: Dup 2 **Lab ID: C313029-09RE1**

Analyte	Results	Flag	MDL	PQL	Units	Method	Notes
Arsenic - Total	0.655	JD	0.237	1.19	mg/kg dry	EPA 6010C	
Beryllium - Total	0.0459	JD	0.0285	0.119	mg/kg dry	EPA 6010C	
Cadmium - Total	0.0408	JD	0.0228	0.119	mg/kg dry	EPA 6010C	
Chromium - Total	3.38	D	0.237	1.19	mg/kg dry	EPA 6010C	
Copper - Total	2.38	D	0.451	1.19	mg/kg dry	EPA 6010C	
Iron - Total	3170	BD	1.14	5.93	mg/kg dry	EPA 6010C	
Lead - Total	12.0	D	0.285	1.19	mg/kg dry	EPA 6010C	
Manganese - Total	17.0	D	0.237	1.19	mg/kg dry	EPA 6010C	
Zinc - Total	14.0	D	2.61	5.93	mg/kg dry	EPA 6010C	

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ANALYTICAL RESULTS

Description: SB-3 (1-2)	**Lab Sample ID:** C313029-01	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.44

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0007	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0004	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.012	0.057	3J10027	EPA 8260B	10/10/13 22:04	REF	
2-Butanone [78-93-3]^	**0.21**		mg/kg dry	1	0.0007	0.0047	3J10027	EPA 8260B	10/10/13 22:04	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0007	0.0047	3J10027	EPA 8260B	10/10/13 22:04	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0005	0.0047	3J10027	EPA 8260B	10/10/13 22:04	REF	
Acetone [67-64-1]^	**0.26**		mg/kg dry	1	0.0013	0.0047	3J10027	EPA 8260B	10/10/13 22:04	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0004	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0047	3J10027	EPA 8260B	10/10/13 22:04	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0004	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0001	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0019	3J10027	EPA 8260B	10/10/13 22:04	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0007	0.0019	3J10027	EPA 8260B	10/10/13 22:04	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0009	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Toluene [108-88-3]^	**0.018**		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	

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ANALYTICAL RESULTS

Description: SB-3 (1-2)	**Lab Sample ID:** C313029-01	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.44

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0009	3J10027	EPA 8260B	10/10/13 22:04	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*80 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 22:04*	*REF*	
Dibromofluoromethane	*36*	*1*	*50.0*	*73 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 22:04*	*REF*	
Toluene-d8	*39*	*1*	*50.0*	*79 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 22:04*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
.alpha.-Pinene [000080-56-8]	**0.0039**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:04	REF	
3-Carene [013466-78-9]	**0.0072**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:04	REF	
Bicyclo[2.2.1]heptane, 7,7-... [000471-84-1]	**0.0070**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:04	REF	
Bicyclo[3.1.1]heptane, 6,6-... [018172-67-3]	**0.0048**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:04	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.41	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.034	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.034	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.030	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.053	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.053	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.039	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.031	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.031	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.037	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.039	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	**0.28**	J	mg/kg dry	1	0.032	0.50	3J08009	EPA 8270D	10/09/13 13:20	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.045	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.034	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.032	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.066	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.039	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	

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ANALYTICAL RESULTS

Description: SB-3 (1-2)	**Lab Sample ID:** C313029-01	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.44

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.047	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.41	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.41	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Benzo(a)anthracene [56-55-3]^	**0.055**	J	mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Benzo(a)pyrene [50-32-8]^	**0.060**	J	mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Benzo(b)fluoranthene [205-99-2]^	**0.11**	J	mg/kg dry	1	0.022	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.058	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Benzo(k)fluoranthene [207-08-9]^	**0.058**	J	mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.031	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.053	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.030	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.044	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.050	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.41	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Chrysene [218-01-9]^	**0.10**	J	mg/kg dry	1	0.037	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.063	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.034	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.051	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Fluoranthene [206-44-0]^	**0.22**	J	mg/kg dry	1	0.045	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.036	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.032	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.032	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.048	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.026	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.058	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.037	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.035	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.032	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.10	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.067	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.041	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Phenanthrene [85-01-8]^	**0.19**	J	mg/kg dry	1	0.034	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.027	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	QL-02
Pyrene [129-00-0]^	**0.18**	J	mg/kg dry	1	0.047	0.41	3J08009	EPA 8270D	10/09/13 13:20	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.6*	*1*	*4.14*	*88 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 13:20*	*DFM*	
2-Fluorobiphenyl	*1.8*	*1*	*2.07*	*85 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 13:20*	*DFM*	
2-Fluorophenol	*3.2*	*1*	*4.14*	*77 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 13:20*	*DFM*	
Nitrobenzene-d5	*1.8*	*1*	*2.07*	*86 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 13:20*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-3 (1-2)	**Lab Sample ID:** C313029-01	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 80.44

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Phenol-d5	*3.5*	*1*	*4.14*	*85 %*	*21-184*		*3J08009*	*EPA 8270D*	*10/09/13 13:20*	*DFM*	
Terphenyl-d14	*1.9*	*1*	*2.07*	*91 %*	*54-124*		*3J08009*	*EPA 8270D*	*10/09/13 13:20*	*DFM*	

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
3-Eicosene, (E)- [074685-33-9]	**0.20**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:20	DFM	
Cyclohexene [000110-83-8]	**0.21**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:20	DFM	
Erucylamide [000112-84-5]	**0.76**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:20	DFM	
Heneicosane [000629-94-7]	**0.35**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:20	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.90**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:20	DFM	
Octadecanoic acid [000057-11-4]	**0.93**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:20	DFM	
Pentatriacontane [000630-07-9]	**0.44**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 13:20	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.273	2.49	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Arsenic [7440-38-2]^	**4.21**	D	mg/kg dry	2	0.249	1.24	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Beryllium [7440-41-7]^	**0.264**	D	mg/kg dry	2	0.0298	0.124	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0239	0.124	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Chromium [7440-47-3]^	**11.7**	D	mg/kg dry	2	0.249	1.24	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Copper [7440-50-8]^	**5.70**	D	mg/kg dry	2	0.472	1.24	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Iron [7439-89-6]^	**19100**	BD	mg/kg dry	2	1.19	6.22	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Lead [7439-92-1]^	**24.3**	D	mg/kg dry	2	0.298	1.24	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Manganese [7439-96-5]^	**46.6**	D	mg/kg dry	2	0.249	1.24	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Mercury [7439-97-6]^	**0.214**		mg/kg dry	1	0.00858	0.0298	3J15011	EPA 7471B	10/17/13 14:21	T1D	
Nickel [7440-02-0]^	**1.90**	JD	mg/kg dry	2	0.895	6.22	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.249	1.24	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Silver [7440-22-4]^	**1.10**	JD	mg/kg dry	2	0.249	1.24	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.249	1.24	3K07027	EPA 6010C	11/14/13 13:38	JDH	
Zinc [7440-66-6]^	**25.1**	D	mg/kg dry	2	2.73	6.22	3K07027	EPA 6010C	11/14/13 13:38	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**7.5**		mg/kg dry	1	0.56	1.2	3J10004	EPA 350.1	10/11/13 11:33	c1v	
Nitrate as N [14797-55-8]	**2.3**	J	mg/kg dry	1	0.8	12	3J10003	EPA 9056A	10/10/13 11:59	AJB	
Sulfate as SO4 [14808-79-8]	**58**	J	mg/kg dry	1	36	62	3J10003	EPA 9056A	10/10/13 11:59	AJB	

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ANALYTICAL RESULTS

Description:	SB-3 (1-2)	**Lab Sample ID:**	C313029-01	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 09:00	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	80.44

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	4.87	12.2	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	12.4	24.3	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.43	48.7	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.16	24.3	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	13.4	122	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Copper [7440-50-8]^	**6.21**	JD	mg/kg dry	20	5.35	24.3	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Iron [7439-89-6]^	**5970**	D	mg/kg dry	20	41.4	122	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Lead [7439-92-1]^	**38.3**	JD	mg/kg dry	20	5.84	122	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Manganese [7439-96-5]^	**56.0**	D	mg/kg dry	20	6.81	24.3	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.08	24.3	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	22.1	24.3	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.34	12.2	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.900	24.3	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01
Zinc [7440-66-6]^	**34.2**	JD	mg/kg dry	20	31.6	122	3J08019	EPA 6020A	10/14/13 12:42	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-3 (5-6)	**Lab Sample ID:** C313029-02	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:05	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 81.74

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0007	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0004	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.011	0.051	3J10027	EPA 8260B	10/10/13 22:34	REF	
2-Butanone [78-93-3]^	**0.021**		mg/kg dry	1	0.0007	0.0042	3J10027	EPA 8260B	10/10/13 22:34	REF	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0006	0.0042	3J10027	EPA 8260B	10/10/13 22:34	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0005	0.0042	3J10027	EPA 8260B	10/10/13 22:34	REF	
Acetone [67-64-1]^	**0.026**		mg/kg dry	1	0.0012	0.0042	3J10027	EPA 8260B	10/10/13 22:34	REF	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0001	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0004	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0003	0.0042	3J10027	EPA 8260B	10/10/13 22:34	REF	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0001	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0001	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0001	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0004	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0001	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0001	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0003	0.0017	3J10027	EPA 8260B	10/10/13 22:34	REF	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0006	0.0017	3J10027	EPA 8260B	10/10/13 22:34	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0008	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Toluene [108-88-3]^	**0.0027**		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	

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ANALYTICAL RESULTS

Description: SB-3 (5-6)	**Lab Sample ID:** C313029-02	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:05	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 81.74

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0008	3J10027	EPA 8260B	10/10/13 22:34	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*42*	*1*	*50.0*	*85 %*	*61-118*	*3J10027*	*EPA 8260B*	*10/10/13 22:34*	*REF*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*66-114*	*3J10027*	*EPA 8260B*	*10/10/13 22:34*	*REF*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*63-118*	*3J10027*	*EPA 8260B*	*10/10/13 22:34*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
.alpha.-Pinene [000080-56-8]	**0.039**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:34	REF	
.beta.-Pinene [000127-91-3]	**0.045**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:34	REF	
3-Carene [013466-78-9]	**0.045**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:34	REF	
Bicyclo[2.2.1]heptane, 7,7-... [000471-84-1]	**0.022**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:34	REF	
Camphene [000079-92-5]	**0.0065**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:34	REF	
Cyclohexene, 1-methyl-4-(1-... [000586-62-9]	**0.0021**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:34	REF	
D-Limonene [5989-27-5]	**0.0091**	JN	mg/kg dry	1			3J10027	EPA 8260B	10/10/13 22:34	REF	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.40	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.029	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.053	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.053	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.038	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.031	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.031	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.037	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.038	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	**0.21**	J	mg/kg dry	1	0.032	0.49	3J08009	EPA 8270D	10/09/13 14:47	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.044	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	

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ANALYTICAL RESULTS

Description: SB-3 (5-6)	**Lab Sample ID:** C313029-02	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:05	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 81.74

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.032	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.065	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.038	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.046	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.40	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.40	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.022	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.058	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.031	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.053	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.029	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.043	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.049	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.40	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.037	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.062	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.050	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.044	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.035	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.032	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.032	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.048	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.026	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.058	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.037	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.034	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.032	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.099	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.066	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.040	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.033	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.027	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.046	0.40	3J08009	EPA 8270D	10/09/13 14:47	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.5*	*1*	*4.08*	*85 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 14:47*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-3 (5-6)	**Lab Sample ID:**	C313029-02	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 09:05	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	81.74

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2-Fluorobiphenyl	*1.8*	*1*	*2.04*	*86 %*	*49-105*		*3J08009*	*EPA 8270D*	*10/09/13 14:47*	*DFM*	
2-Fluorophenol	*3.2*	*1*	*4.08*	*80 %*	*28-95*		*3J08009*	*EPA 8270D*	*10/09/13 14:47*	*DFM*	
Nitrobenzene-d5	*1.7*	*1*	*2.04*	*85 %*	*50-117*		*3J08009*	*EPA 8270D*	*10/09/13 14:47*	*DFM*	
Phenol-d5	*3.5*	*1*	*4.08*	*87 %*	*21-184*		*3J08009*	*EPA 8270D*	*10/09/13 14:47*	*DFM*	
Terphenyl-d14	*1.7*	*1*	*2.04*	*84 %*	*54-124*		*3J08009*	*EPA 8270D*	*10/09/13 14:47*	*DFM*	

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Erucylamide [000112-84-5]	**0.18**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 14:47	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.46**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 14:47	DFM	
Octadecanoic acid [000057-11-4]	**0.46**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 14:47	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.269	2.45	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Arsenic [7440-38-2]^	**1.41**	D	mg/kg dry	2	0.245	1.22	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Beryllium [7440-41-7]^	**0.270**	D	mg/kg dry	2	0.0294	0.122	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0235	0.122	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Chromium [7440-47-3]^	**10.0**	D	mg/kg dry	2	0.245	1.22	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Copper [7440-50-8]^	**1.90**	D	mg/kg dry	2	0.465	1.22	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Iron [7439-89-6]^	**4520**	BD	mg/kg dry	2	1.17	6.12	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Lead [7439-92-1]^	**9.60**	D	mg/kg dry	2	0.294	1.22	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Manganese [7439-96-5]^	**12.3**	D	mg/kg dry	2	0.245	1.22	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Mercury [7439-97-6]^	**0.0847**		mg/kg dry	1	0.00844	0.0294	3J15011	EPA 7471B	10/17/13 14:32	T1D	
Nickel [7440-02-0]^	**1.29**	JD	mg/kg dry	2	0.881	6.12	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.245	1.22	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Silver [7440-22-4]^	**0.374**	JD	mg/kg dry	2	0.245	1.22	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.245	1.22	3K07027	EPA 6010C	11/14/13 13:41	JDH	
Zinc [7440-66-6]^	**5.95**	JD	mg/kg dry	2	2.69	6.12	3K07027	EPA 6010C	11/14/13 13:41	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**2.5**		mg/kg dry	1	0.55	1.2	3J10004	EPA 350.1	10/11/13 11:40	c1v	
Nitrate as N [14797-55-8]	**2.2**	J	mg/kg dry	1	0.8	12	3J10003	EPA 9056A	10/10/13 12:16	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	35	61	3J10003	EPA 9056A	10/10/13 12:16	AJB	

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ANALYTICAL RESULTS

Description:	SB-3 (5-6)	**Lab Sample ID:**	C313029-02	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 09:05	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	81.74

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	4.64	11.6	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	11.8	23.2	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.32	46.4	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.02	23.2	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	12.8	116	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	5.11	23.2	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Iron [7439-89-6]^	**5770**	D	mg/kg dry	20	39.5	116	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Lead [7439-92-1]^	**13.0**	JD	mg/kg dry	20	5.57	116	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Manganese [7439-96-5]^	**8.92**	JD	mg/kg dry	20	6.50	23.2	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	5.80	23.2	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	21.1	23.2	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.28	11.6	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.859	23.2	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	30.2	116	3J08019	EPA 6020A	10/14/13 12:46	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-3 (9-10)	**Lab Sample ID:** C313029-03	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:07	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 73.13

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0011	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0006	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0006	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.018	0.082	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0011	0.0068	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0010	0.0068	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0008	0.0068	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0019	0.0068	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0006	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0006	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0068	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0005	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0006	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0005	0.0027	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0010	0.0027	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0013	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0005	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	

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ANALYTICAL RESULTS

Description: SB-3 (9-10)	**Lab Sample ID:** C313029-03	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:07	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 73.13

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0004	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0014	3J10036	EPA 8260B	10/11/13 03:27	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*61-118*	*3J10036*	*EPA 8260B*	*10/11/13 03:27*	*MSZ*	
Dibromofluoromethane	*37*	*1*	*50.0*	*74 %*	*66-114*	*3J10036*	*EPA 8260B*	*10/11/13 03:27*	*MSZ*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*63-118*	*3J10036*	*EPA 8260B*	*10/11/13 03:27*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 03:27	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.45	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.037	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.037	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.033	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.059	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.059	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.038	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.042	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.038	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.034	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.038	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.034	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.041	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.042	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.036	0.55	3J08009	EPA 8270D	10/09/13 15:16	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.049	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.037	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.13	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.036	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.072	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.042	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.038	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.038	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.052	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	

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ANALYTICAL RESULTS

Description: SB-3 (9-10)	**Lab Sample ID:** C313029-03	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:07	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 73.13

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.45	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.45	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.038	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.025	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.064	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.034	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.059	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.033	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.048	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.055	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.45	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.041	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.070	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.037	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.038	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.056	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.049	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.040	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.036	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.036	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.053	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.029	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.064	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.041	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.038	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.036	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.11	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.074	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.045	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.037	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.030	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.052	0.45	3J08009	EPA 8270D	10/09/13 15:16	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*4.0*	*1*	*4.56*	*87 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 15:16*	*DFM*	
2-Fluorobiphenyl	*2.0*	*1*	*2.28*	*86 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 15:16*	*DFM*	
2-Fluorophenol	*3.7*	*1*	*4.56*	*80 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 15:16*	*DFM*	
Nitrobenzene-d5	*1.9*	*1*	*2.28*	*85 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 15:16*	*DFM*	
Phenol-d5	*4.0*	*1*	*4.56*	*88 %*	*21-184*	*3J08009*	*EPA 8270D*	*10/09/13 15:16*	*DFM*	
Terphenyl-d14	*2.0*	*1*	*2.28*	*88 %*	*54-124*	*3J08009*	*EPA 8270D*	*10/09/13 15:16*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-3 (9-10)	**Lab Sample ID:** C313029-03	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:07	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 73.13

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Erucylamide [000112-84-5]	**1.4**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:16	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.70**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:16	DFM	
Octadecanoic acid [000057-11-4]	**0.89**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:16	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.301	2.73	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Arsenic [7440-38-2]^	**87.1**	D	mg/kg dry	2	0.273	1.37	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Beryllium [7440-41-7]^	**0.690**	D	mg/kg dry	2	0.0328	0.137	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0263	0.137	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Chromium [7440-47-3]^	**1.17**	JD	mg/kg dry	2	0.273	1.37	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Copper [7440-50-8]^	**2.90**	D	mg/kg dry	2	0.520	1.37	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Iron [7439-89-6]^	**23200**	BD	mg/kg dry	2	1.31	6.84	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Lead [7439-92-1]^	**65.6**	D	mg/kg dry	2	0.328	1.37	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Manganese [7439-96-5]^	**88.2**	D	mg/kg dry	2	0.273	1.37	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Mercury [7439-97-6]^	**0.0120**	J	mg/kg dry	1	0.00943	0.0328	3J15011	EPA 7471B	10/17/13 14:34	T1D	
Nickel [7440-02-0]^	**1.89**	JD	mg/kg dry	2	0.985	6.84	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.273	1.37	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Silver [7440-22-4]^	ND		mg/kg dry	2	0.273	1.37	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.273	1.37	3K07027	EPA 6010C	11/14/13 13:43	JDH	
Zinc [7440-66-6]^	**40.7**	D	mg/kg dry	2	3.01	6.84	3K07027	EPA 6010C	11/14/13 13:43	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	ND		mg/kg dry	1	0.62	1.4	3J10004	EPA 350.1	10/11/13 11:42	c1v	
Nitrate as N [14797-55-8]	**2.7**	J	mg/kg dry	1	0.9	14	3J10003	EPA 9056A	10/10/13 12:34	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	39	68	3J10003	EPA 9056A	10/10/13 12:34	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.63	14.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Arsenic [7440-38-2]^	**38.9**	D	mg/kg dry	20	14.3	28.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.81	56.3	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.66	28.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	15.5	141	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	6.19	28.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Iron [7439-89-6]^	**15300**	D	mg/kg dry	20	47.8	141	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Lead [7439-92-1]^	**20.8**	JD	mg/kg dry	20	6.75	141	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Manganese [7439-96-5]^	**31.3**	D	mg/kg dry	20	7.88	28.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	7.03	28.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	25.6	28.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.55	14.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	1.04	28.1	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	36.6	141	3J08019	EPA 6020A	10/14/13 12:49	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-5 (1-2)	**Lab Sample ID:** C313029-04	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:45	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.22

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.014	0.066	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0009	0.0055	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0008	0.0055	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0006	0.0055	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0015	0.0055	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0055	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0022	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0022	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	

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ANALYTICAL RESULTS

Description: SB-5 (1-2)	**Lab Sample ID:** C313029-04	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:45	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.22

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 03:57	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*76 %*	*61-118*	*3J10036*	*EPA 8260B*	*10/11/13 03:57*	*MSZ*	
Dibromofluoromethane	*38*	*1*	*50.0*	*77 %*	*66-114*	*3J10036*	*EPA 8260B*	*10/11/13 03:57*	*MSZ*	
Toluene-d8	*39*	*1*	*50.0*	*79 %*	*63-118*	*3J10036*	*EPA 8260B*	*10/11/13 03:57*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 03:57	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.42	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.031	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.055	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.055	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.040	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.032	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.032	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.038	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.040	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.033	0.51	3J08009	EPA 8270D	10/09/13 15:45	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.046	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.033	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.068	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.040	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.049	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	

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ANALYTICAL RESULTS

Description: SB-5 (1-2)	**Lab Sample ID:** C313029-04	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:45	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.22

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.42	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.42	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.023	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.060	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.032	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.055	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.031	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.045	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.051	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.42	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.038	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.065	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.052	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.046	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.037	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.033	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.033	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.050	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.027	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.060	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.038	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.033	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.10	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.069	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.028	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.049	0.42	3J08009	EPA 8270D	10/09/13 15:45	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.7*	*1*	*4.26*	*88 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 15:45*	*DFM*	
2-Fluorobiphenyl	*1.8*	*1*	*2.13*	*84 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 15:45*	*DFM*	
2-Fluorophenol	*3.4*	*1*	*4.26*	*79 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 15:45*	*DFM*	
Nitrobenzene-d5	*1.8*	*1*	*2.13*	*83 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 15:45*	*DFM*	
Phenol-d5	*3.7*	*1*	*4.26*	*86 %*	*21-184*	*3J08009*	*EPA 8270D*	*10/09/13 15:45*	*DFM*	
Terphenyl-d14	*2.0*	*1*	*2.13*	*94 %*	*54-124*	*3J08009*	*EPA 8270D*	*10/09/13 15:45*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-5 (1-2)	**Lab Sample ID:** C313029-04	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:45	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.22

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1-Docosene [001599-67-3]	**0.72**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:45	DFM	
Erucylamide [000112-84-5]	**0.39**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:45	DFM	
Hentriacontane [000630-04-6]	**0.35**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:45	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.32**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:45	DFM	
Octacosane [000630-02-4]	**0.34**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:45	DFM	
Tricosane, 2-methyl- [001928-30-9]	**0.51**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 15:45	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.281	2.56	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Arsenic [7440-38-2]^	**4.08**	D	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Beryllium [7440-41-7]^	**0.158**	D	mg/kg dry	2	0.0307	0.128	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Cadmium [7440-43-9]^	**0.0519**	JD	mg/kg dry	2	0.0245	0.128	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Chromium [7440-47-3]^	**9.31**	D	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Copper [7440-50-8]^	**4.91**	D	mg/kg dry	2	0.486	1.28	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Iron [7439-89-6]^	**11800**	BD	mg/kg dry	2	1.23	6.39	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Lead [7439-92-1]^	**14.2**	D	mg/kg dry	2	0.307	1.28	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Manganese [7439-96-5]^	**87.6**	D	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Mercury [7439-97-6]^	**0.0591**		mg/kg dry	1	0.00882	0.0307	3J15011	EPA 7471B	10/17/13 14:41	T1D	
Nickel [7440-02-0]^	**1.37**	JD	mg/kg dry	2	0.921	6.39	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Silver [7440-22-4]^	**0.668**	JD	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:45	JDH	
Zinc [7440-66-6]^	**21.1**	D	mg/kg dry	2	2.81	6.39	3K07027	EPA 6010C	11/14/13 13:45	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**1.7**		mg/kg dry	1	0.39	0.87	3J10004	EPA 350.1	10/11/13 11:44	c1v	
Nitrate as N [14797-55-8]	**1.8**	J	mg/kg dry	1	0.6	8.7	3J10003	EPA 9056A	10/10/13 12:51	AJB	
Sulfate as SO4 [14808-79-8]	**28**	J	mg/kg dry	1	25	44	3J10003	EPA 9056A	10/10/13 12:51	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.12	12.8	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	13.1	25.6	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.56	51.2	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.33	25.6	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	14.1	128	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	5.63	25.6	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Iron [7439-89-6]^	**8570**	D	mg/kg dry	20	43.5	128	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Lead [7439-92-1]^	**12.4**	JD	mg/kg dry	20	6.15	128	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Manganese [7439-96-5]^	**54.8**	D	mg/kg dry	20	7.17	25.6	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.40	25.6	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	23.3	25.6	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.41	12.8	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.947	25.6	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-5 (1-2)	**Lab Sample ID:**	C313029-04	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 10:45	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	78.22

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Zinc [7440-66-6]^	ND		mg/kg dry	20	33.3	128	3J08019	EPA 6020A	10/14/13 12:53	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-5 (6-7)	**Lab Sample ID:** C313029-05	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:47	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 71.92

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.015	0.070	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0009	0.0058	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0058	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0058	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0016	0.0058	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0005	0.0058	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0023	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0009	0.0023	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	

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ANALYTICAL RESULTS

Description: SB-5 (6-7)	**Lab Sample ID:** C313029-05	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:47	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 71.92

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:26	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*40*	*1*	*50.0*	*79 %*	*61-118*	*3J10036*	*EPA 8260B*	*10/11/13 04:26*	*MSZ*	
Dibromofluoromethane	*39*	*1*	*50.0*	*77 %*	*66-114*	*3J10036*	*EPA 8260B*	*10/11/13 04:26*	*MSZ*	
Toluene-d8	*40*	*1*	*50.0*	*81 %*	*63-118*	*3J10036*	*EPA 8260B*	*10/11/13 04:26*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 04:26	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.46	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.038	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.038	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.033	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.060	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.060	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.039	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.043	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.039	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.035	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.039	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.035	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.042	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.043	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.036	0.56	3J08009	EPA 8270D	10/09/13 16:13	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.14	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.050	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.038	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.13	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.036	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.074	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.043	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.039	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.039	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.053	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	

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ANALYTICAL RESULTS

Description: SB-5 (6-7)	**Lab Sample ID:** C313029-05	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:47	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 71.92

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.46	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.46	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.039	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.025	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.065	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.035	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.060	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.033	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.049	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.056	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.46	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.042	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.071	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.038	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.039	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.057	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.050	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.040	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.036	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.036	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.054	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.029	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.065	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.042	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.039	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.036	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.11	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.075	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.046	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.038	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.031	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.053	0.46	3J08009	EPA 8270D	10/09/13 16:13	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*4.0*	*1*	*4.63*	*86 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 16:13*	*DFM*	
2-Fluorobiphenyl	*2.0*	*1*	*2.32*	*85 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 16:13*	*DFM*	
2-Fluorophenol	*3.7*	*1*	*4.63*	*80 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 16:13*	*DFM*	
Nitrobenzene-d5	*2.0*	*1*	*2.32*	*87 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 16:13*	*DFM*	
Phenol-d5	*4.0*	*1*	*4.63*	*87 %*	*21-184*	*3J08009*	*EPA 8270D*	*10/09/13 16:13*	*DFM*	
Terphenyl-d14	*2.0*	*1*	*2.32*	*87 %*	*54-124*	*3J08009*	*EPA 8270D*	*10/09/13 16:13*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-5 (6-7)	**Lab Sample ID:** C313029-05	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:47	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 71.92

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Erucylamide [000112-84-5]	**1.7**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 16:13	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.66**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 16:13	DFM	
Octadecanoic acid [000057-11-4]	**0.79**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 16:13	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.306	2.78	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Arsenic [7440-38-2]^	**1.39**	D	mg/kg dry	2	0.278	1.39	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Beryllium [7440-41-7]^	**0.0716**	JD	mg/kg dry	2	0.0334	0.139	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0267	0.139	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Chromium [7440-47-3]^	**2.24**	D	mg/kg dry	2	0.278	1.39	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Copper [7440-50-8]^	**0.857**	JD	mg/kg dry	2	0.528	1.39	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Iron [7439-89-6]^	**1110**	BD	mg/kg dry	2	1.33	6.95	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Lead [7439-92-1]^	**6.54**	D	mg/kg dry	2	0.334	1.39	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Manganese [7439-96-5]^	**3.61**	D	mg/kg dry	2	0.278	1.39	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Mercury [7439-97-6]^	ND		mg/kg dry	1	0.00872	0.0303	3J15011	EPA 7471B	10/17/13 14:43	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	2	1.00	6.95	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Selenium [7782-49-2]^	**0.294**	JBD	mg/kg dry	2	0.278	1.39	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Silver [7440-22-4]^	ND		mg/kg dry	2	0.278	1.39	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.278	1.39	3K07027	EPA 6010C	11/14/13 13:47	JDH	
Zinc [7440-66-6]^	**3.46**	JD	mg/kg dry	2	3.06	6.95	3K07027	EPA 6010C	11/14/13 13:47	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	ND		mg/kg dry	1	0.54	1.2	3J10004	EPA 350.1	10/11/13 11:46	c1v	
Nitrate as N [14797-55-8]	**2.4**	J	mg/kg dry	1	0.8	12	3J10003	EPA 9056A	10/10/13 13:09	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	35	60	3J10003	EPA 9056A	10/10/13 13:09	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.71	14.3	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	14.6	28.5	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.85	57.1	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.71	28.5	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	15.7	143	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	6.28	28.5	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Iron [7439-89-6]^	**2710**	D	mg/kg dry	20	48.5	143	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Lead [7439-92-1]^	ND		mg/kg dry	20	6.85	143	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Manganese [7439-96-5]^	ND		mg/kg dry	20	7.99	28.5	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	7.14	28.5	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	26.0	28.5	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.57	14.3	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	1.06	28.5	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	37.1	143	3J08019	EPA 6020A	10/14/13 12:57	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-5 (9-10)	**Lab Sample ID:** C313029-06	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:50	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 75.86

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.015	0.069	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0009	0.0058	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0009	0.0058	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0007	0.0058	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0016	0.0058	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0058	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0023	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0023	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	

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ANALYTICAL RESULTS

Description: SB-5 (9-10)	**Lab Sample ID:** C313029-06	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:50	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 75.86

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0012	3J10036	EPA 8260B	10/11/13 04:55	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*61-118*	*3J10036*	*EPA 8260B*	*10/11/13 04:55*	*MSZ*	
Dibromofluoromethane	*38*	*1*	*50.0*	*76 %*	*66-114*	*3J10036*	*EPA 8260B*	*10/11/13 04:55*	*MSZ*	
Toluene-d8	*39*	*1*	*50.0*	*78 %*	*63-118*	*3J10036*	*EPA 8260B*	*10/11/13 04:55*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 04:55	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.43	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.036	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.036	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.032	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.057	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.057	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.037	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.041	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.037	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.033	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.037	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.033	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.040	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.041	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.034	0.53	3J08009	EPA 8270D	10/09/13 16:42	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.047	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.036	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.034	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.070	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.041	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.037	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.037	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.050	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	

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ANALYTICAL RESULTS

Description: SB-5 (9-10)	**Lab Sample ID:** C313029-06	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:50	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 75.86

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.43	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.43	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.037	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.024	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.062	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.033	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.057	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.032	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.046	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.053	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.43	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.040	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.067	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.036	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.037	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.054	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.047	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.038	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.034	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.034	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.051	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.028	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.062	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.040	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.037	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.034	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.11	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.071	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.043	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.036	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.029	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.050	0.43	3J08009	EPA 8270D	10/09/13 16:42	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.6*	*1*	*4.39*	*81 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 16:42*	*DFM*	
2-Fluorobiphenyl	*1.9*	*1*	*2.20*	*85 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 16:42*	*DFM*	
2-Fluorophenol	*3.5*	*1*	*4.39*	*80 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 16:42*	*DFM*	
Nitrobenzene-d5	*1.9*	*1*	*2.20*	*86 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 16:42*	*DFM*	
Phenol-d5	*3.9*	*1*	*4.39*	*88 %*	*21-184*	*3J08009*	*EPA 8270D*	*10/09/13 16:42*	*DFM*	
Terphenyl-d14	*2.0*	*1*	*2.20*	*92 %*	*54-124*	*3J08009*	*EPA 8270D*	*10/09/13 16:42*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-5 (9-10)	**Lab Sample ID:** C313029-06	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 10:50	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 75.86

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Erucylamide [000112-84-5]	**1.3**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 16:42	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.22**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 16:42	DFM	
Octadecanoic acid [000057-11-4]	**0.23**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 16:42	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.290	2.64	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Arsenic [7440-38-2]^	**48.0**	D	mg/kg dry	2	0.264	1.32	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Beryllium [7440-41-7]^	**0.289**	D	mg/kg dry	2	0.0316	0.132	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Cadmium [7440-43-9]^	ND		mg/kg dry	2	0.0253	0.132	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Chromium [7440-47-3]^	**2.18**	D	mg/kg dry	2	0.264	1.32	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Copper [7440-50-8]^	**5.13**	D	mg/kg dry	2	0.501	1.32	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Iron [7439-89-6]^	**14300**	BD	mg/kg dry	2	1.27	6.59	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Lead [7439-92-1]^	**2.17**	D	mg/kg dry	2	0.316	1.32	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Manganese [7439-96-5]^	**28.1**	D	mg/kg dry	2	0.264	1.32	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Mercury [7439-97-6]^	ND		mg/kg dry	1	0.00910	0.0316	3J15011	EPA 7471B	10/17/13 14:46	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	2	0.949	6.59	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.264	1.32	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Silver [7440-22-4]^	**0.422**	JD	mg/kg dry	2	0.264	1.32	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Thallium [7440-28-0]^	**0.748**	JD	mg/kg dry	2	0.264	1.32	3K07027	EPA 6010C	11/14/13 13:50	JDH	
Zinc [7440-66-6]^	**18.7**	D	mg/kg dry	2	2.90	6.59	3K07027	EPA 6010C	11/14/13 13:50	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	ND		mg/kg dry	1	0.51	1.1	3J10004	EPA 350.1	10/11/13 11:48	c1v	
Nitrate as N [14797-55-8]	**2.2**	J	mg/kg dry	1	0.8	11	3J10003	EPA 9056A	10/10/13 13:26	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	33	56	3J10003	EPA 9056A	10/10/13 13:26	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.31	13.3	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Arsenic [7440-38-2]^	**26.4**	JD	mg/kg dry	20	13.5	26.5	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.65	53.1	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.45	26.5	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	14.6	133	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Copper [7440-50-8]^	ND		mg/kg dry	20	5.84	26.5	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Iron [7439-89-6]^	**13900**	D	mg/kg dry	20	45.1	133	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Lead [7439-92-1]^	**7.16**	JD	mg/kg dry	20	6.37	133	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Manganese [7439-96-5]^	**85.7**	D	mg/kg dry	20	7.43	26.5	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.63	26.5	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	24.1	26.5	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.46	13.3	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.982	26.5	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01
Zinc [7440-66-6]^	ND		mg/kg dry	20	34.5	133	3J08019	EPA 6020A	10/14/13 13:01	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-4 (1-2)	**Lab Sample ID:** C313029-07	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 11:30	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 64.99

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0005	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0012	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0007	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0006	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.020	0.092	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0012	0.0077	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0012	0.0077	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0009	0.0077	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Acetone [67-64-1]^	**0.0072**	J	mg/kg dry	1	0.0022	0.0077	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0006	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0007	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0005	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0006	0.0077	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0005	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0007	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0006	0.0031	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0011	0.0031	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0005	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0003	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0015	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0006	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	

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ANALYTICAL RESULTS

Description: SB-4 (1-2)	**Lab Sample ID:** C313029-07	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 11:30	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 64.99

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0006	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0005	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0004	0.0015	3J10036	EPA 8260B	10/11/13 05:24	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*39*	*1*	*50.0*	*78 %*	*61-118*	*3J10036*	*EPA 8260B*	*10/11/13 05:24*	*MSZ*	
Dibromofluoromethane	*39*	*1*	*50.0*	*78 %*	*66-114*	*3J10036*	*EPA 8260B*	*10/11/13 05:24*	*MSZ*	
Toluene-d8	*40*	*1*	*50.0*	*80 %*	*63-118*	*3J10036*	*EPA 8260B*	*10/11/13 05:24*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Dimethyl sulfide [000075-18-3]	**0.022**	JN	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 05:24	MSZ	
Disulfide, dimethyl [000624-92-0]	**0.0055**	JN	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 05:24	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	1.0	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.083	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.083	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.074	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.13	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.13	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.086	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.095	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.086	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.077	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.086	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.077	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.092	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.095	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.080	1.2	3J08009	EPA 8270D	10/09/13 19:05	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.30	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.11	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.083	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.29	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.080	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.16	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.095	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.086	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.086	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.12	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	

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ANALYTICAL RESULTS

Description: SB-4 (1-2)	**Lab Sample ID:** C313029-07	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 11:30	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 64.99

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	1.0	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	1.0	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.086	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Benzo(a)pyrene [50-32-8]^	**0.12**	J	mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Benzo(b)fluoranthene [205-99-2]^	**0.18**	J	mg/kg dry	1	0.055	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.14	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.077	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.13	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.074	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**0.13**	J	mg/kg dry	1	0.11	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	J-04
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.12	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	1.0	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Chrysene [218-01-9]^	**0.12**	J	mg/kg dry	1	0.092	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.16	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.083	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.086	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.13	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Fluoranthene [206-44-0]^	**0.12**	J	mg/kg dry	1	0.11	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.089	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.080	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.080	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.12	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.065	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.14	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.092	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.086	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.080	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.25	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.17	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.10	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.083	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.068	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.12	1.0	3J08009	EPA 8270D	10/09/13 19:05	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*4.6*	*1*	*5.13*	*91 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 19:05*	*DFM*	
2-Fluorobiphenyl	*2.5*	*1*	*2.56*	*97 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 19:05*	*DFM*	
2-Fluorophenol	*4.2*	*1*	*5.13*	*82 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 19:05*	*DFM*	
Nitrobenzene-d5	*2.4*	*1*	*2.56*	*92 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 19:05*	*DFM*	
Phenol-d5	*4.8*	*1*	*5.13*	*94 %*	*21-184*	*3J08009*	*EPA 8270D*	*10/09/13 19:05*	*DFM*	
Terphenyl-d14	*2.1*	*1*	*2.56*	*83 %*	*54-124*	*3J08009*	*EPA 8270D*	*10/09/13 19:05*	*DFM*	

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ANALYTICAL RESULTS

Description:	SB-4 (1-2)	**Lab Sample ID:**	C313029-07	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 11:30	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	64.99

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
9-Octadecenamide, (Z)- [000301-02-0]	**1.0**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 19:05	DFM	
Hexadecane [000544-76-3]	**1.3**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 19:05	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.53**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 19:05	DFM	
Octadecanoic acid [000057-11-4]	**0.42**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 19:05	DFM	
Tricosane, 2-methyl- [001928-30-9]	**1.1**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 19:05	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.339	3.08	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Arsenic [7440-38-2]^	**4.09**	D	mg/kg dry	2	0.308	1.54	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Beryllium [7440-41-7]^	**0.164**	D	mg/kg dry	2	0.0369	0.154	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Cadmium [7440-43-9]^	**0.835**	D	mg/kg dry	2	0.0295	0.154	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Chromium [7440-47-3]^	**19.7**	D	mg/kg dry	2	0.308	1.54	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Copper [7440-50-8]^	**65.6**	D	mg/kg dry	2	0.585	1.54	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Iron [7439-89-6]^	**15800**	BD	mg/kg dry	2	1.48	7.69	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Lead [7439-92-1]^	**87.6**	D	mg/kg dry	2	0.369	1.54	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Manganese [7439-96-5]^	**341**	D	mg/kg dry	2	0.308	1.54	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Mercury [7439-97-6]^	**0.377**		mg/kg dry	1	0.0106	0.0369	3J15011	EPA 7471B	10/17/13 14:48	T1D	
Nickel [7440-02-0]^	**25.4**	D	mg/kg dry	2	1.11	7.69	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.308	1.54	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Silver [7440-22-4]^	**1.40**	JD	mg/kg dry	2	0.308	1.54	3K07027	EPA 6010C	11/14/13 13:52	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	4	0.615	3.08	3K07027	EPA 6010C	11/14/13 16:04	JDH	
Zinc [7440-66-6]^	**231**	D	mg/kg dry	2	3.39	7.69	3K07027	EPA 6010C	11/14/13 13:52	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**1.5**		mg/kg dry	1	0.61	1.4	3J10004	EPA 350.1	10/11/13 11:54	c1v	
Nitrate as N [14797-55-8]	**7.5**	J	mg/kg dry	1	0.9	14	3J10003	EPA 9056A	10/10/13 14:19	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	39	68	3J10003	EPA 9056A	10/10/13 14:19	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	6.12	15.3	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	15.6	30.6	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	3.06	61.2	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.98	30.6	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	16.8	153	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Copper [7440-50-8]^	**76.8**	D	mg/kg dry	20	6.74	30.6	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Iron [7439-89-6]^	**13900**	D	mg/kg dry	20	52.1	153	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Lead [7439-92-1]^	**96.2**	JD	mg/kg dry	20	7.35	153	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Manganese [7439-96-5]^	**316**	D	mg/kg dry	20	8.57	30.6	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Nickel [7440-02-0]^	**17.2**	JD	mg/kg dry	20	7.66	30.6	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	27.9	30.6	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.68	15.3	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	1.13	30.6	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-4 (1-2)	**Lab Sample ID:**	C313029-07	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 11:30	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	64.99

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Zinc [7440-66-6]^	**289**	D	mg/kg dry	20	39.8	153	3J08019	EPA 6020A	10/14/13 13:05	JMA	R-01

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ANALYTICAL RESULTS

Description: SB-2 (1-2)	**Lab Sample ID:** C313029-08	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 13:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.01

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0009	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.015	0.067	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
2-Butanone [78-93-3]^	ND		mg/kg dry	1	0.0009	0.0056	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0008	0.0056	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0006	0.0056	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Acetone [67-64-1]^	ND		mg/kg dry	1	0.0016	0.0056	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0056	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0022	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0008	0.0022	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0011	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Toluene [108-88-3]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	

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ANALYTICAL RESULTS

Description: SB-2 (1-2)	**Lab Sample ID:** C313029-08	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 13:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.01

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0004	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0003	0.0011	3J10036	EPA 8260B	10/11/13 05:54	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*38*	*1*	*50.0*	*76 %*	*61-118*	*3J10036*	*EPA 8260B*	*10/11/13 05:54*	*MSZ*	
Dibromofluoromethane	*38*	*1*	*50.0*	*76 %*	*66-114*	*3J10036*	*EPA 8260B*	*10/11/13 05:54*	*MSZ*	
Toluene-d8	*39*	*1*	*50.0*	*77 %*	*63-118*	*3J10036*	*EPA 8260B*	*10/11/13 05:54*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 05:54	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.42	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.031	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.055	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.055	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.040	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.032	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.032	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.038	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.040	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	ND		mg/kg dry	1	0.033	0.51	3J08009	EPA 8270D	10/09/13 18:37	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.13	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.046	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.12	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.033	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.068	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.040	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.049	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	

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ANALYTICAL RESULTS

Description: SB-2 (1-2)	**Lab Sample ID:** C313029-08	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 13:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.01

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.42	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.42	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Benzo(a)anthracene [56-55-3]^	**0.10**	J	mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Benzo(a)pyrene [50-32-8]^	**0.12**	J	mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Benzo(b)fluoranthene [205-99-2]^	**0.19**	J	mg/kg dry	1	0.023	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.060	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Benzo(k)fluoranthene [207-08-9]^	**0.073**	J	mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.032	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.055	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.031	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	**0.29**	J	mg/kg dry	1	0.045	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	J-04
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.051	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.42	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Chrysene [218-01-9]^	**0.12**	J	mg/kg dry	1	0.038	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.065	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.053	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Fluoranthene [206-44-0]^	**0.22**	J	mg/kg dry	1	0.046	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.037	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.033	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.033	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.050	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.027	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.060	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.038	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.036	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.033	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.10	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.069	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.042	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Phenanthrene [85-01-8]^	**0.15**	J	mg/kg dry	1	0.035	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.028	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	QL-02
Pyrene [129-00-0]^	**0.17**	J	mg/kg dry	1	0.049	0.42	3J08009	EPA 8270D	10/09/13 18:37	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.5*	*1*	*4.27*	*82 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 18:37*	*DFM*	
2-Fluorobiphenyl	*1.8*	*1*	*2.14*	*83 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 18:37*	*DFM*	
2-Fluorophenol	*3.1*	*1*	*4.27*	*73 %*	*28-95*	*3J08009*	*EPA 8270D*	*10/09/13 18:37*	*DFM*	
Nitrobenzene-d5	*1.7*	*1*	*2.14*	*81 %*	*50-117*	*3J08009*	*EPA 8270D*	*10/09/13 18:37*	*DFM*	
Phenol-d5	*3.5*	*1*	*4.27*	*81 %*	*21-184*	*3J08009*	*EPA 8270D*	*10/09/13 18:37*	*DFM*	
Terphenyl-d14	*1.6*	*1*	*2.14*	*77 %*	*54-124*	*3J08009*	*EPA 8270D*	*10/09/13 18:37*	*DFM*	

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ANALYTICAL RESULTS

Description: SB-2 (1-2)	**Lab Sample ID:** C313029-08	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 13:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 78.01

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Docosane [000629-97-0]	**0.74**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 18:37	DFM	
Eicosane [000112-95-8]	**0.22**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 18:37	DFM	
Heptadecane, 2,6,10,15-tetr... [054833-48-6]	**0.47**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 18:37	DFM	
n-Hexadecanoic acid [000057-10-3]	**0.66**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 18:37	DFM	
Octadecanoic acid [000057-11-4]	**0.64**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 18:37	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.282	2.56	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Arsenic [7440-38-2]^	**1.75**	D	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Beryllium [7440-41-7]^	**0.108**	JD	mg/kg dry	2	0.0308	0.128	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Cadmium [7440-43-9]^	**0.274**	D	mg/kg dry	2	0.0246	0.128	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Chromium [7440-47-3]^	**6.41**	D	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Copper [7440-50-8]^	**9.22**	D	mg/kg dry	2	0.487	1.28	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Iron [7439-89-6]^	**5800**	BD	mg/kg dry	2	1.23	6.41	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Lead [7439-92-1]^	**82.4**	D	mg/kg dry	2	0.308	1.28	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Manganese [7439-96-5]^	**66.1**	D	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Mercury [7439-97-6]^	**0.110**		mg/kg dry	1	0.00884	0.0308	3J15011	EPA 7471B	10/17/13 14:50	T1D	
Nickel [7440-02-0]^	**2.17**	JD	mg/kg dry	2	0.923	6.41	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Selenium [7782-49-2]^	**0.323**	JBD	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Silver [7440-22-4]^	**0.382**	JD	mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.256	1.28	3K07027	EPA 6010C	11/14/13 13:54	JDH	
Zinc [7440-66-6]^	**71.8**	D	mg/kg dry	2	2.82	6.41	3K07027	EPA 6010C	11/14/13 13:54	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**1.2**		mg/kg dry	1	0.37	0.83	3J10004	EPA 350.1	10/11/13 11:56	c1v	
Nitrate as N [14797-55-8]	**2.5**	J	mg/kg dry	1	0.6	8.3	3J10003	EPA 9056A	10/10/13 14:36	AJB	
Sulfate as SO4 [14808-79-8]	**51**		mg/kg dry	1	24	42	3J10003	EPA 9056A	10/10/13 14:36	AJB	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	5.05	12.6	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	12.9	25.2	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.52	50.5	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.28	25.2	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	13.9	126	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Copper [7440-50-8]^	**11.8**	JD	mg/kg dry	20	5.55	25.2	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Iron [7439-89-6]^	**5390**	D	mg/kg dry	20	42.9	126	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Lead [7439-92-1]^	**95.6**	JD	mg/kg dry	20	6.06	126	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Manganese [7439-96-5]^	**84.4**	D	mg/kg dry	20	7.07	25.2	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	6.31	25.2	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	23.0	25.2	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.39	12.6	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.934	25.2	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01

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ANALYTICAL RESULTS

Description:	SB-2 (1-2)	**Lab Sample ID:**	C313029-08	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 13:00	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	78.01

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Zinc [7440-66-6]^	**152**	D	mg/kg dry	20	32.8	126	3J08019	EPA 6020A	10/14/13 13:09	JMA	R-01

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ANALYTICAL RESULTS

Description: Dup 2	**Lab Sample ID:** C313029-09	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 84.33

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,1,2-Trichloroethane [79-00-5]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,1-Dichloroethane [75-34-3]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,1-Dichloroethene [75-35-4]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,2,3-Trichlorobenzene [87-61-6]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,2,4-Trichlorobenzene [120-82-1]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		mg/kg dry	1	0.0008	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,2-Dibromoethane [106-93-4]^	ND		mg/kg dry	1	0.0005	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,2-Dichlorobenzene [95-50-1]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,2-Dichloroethane [107-06-2]^	ND		mg/kg dry	1	0.0004	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,2-Dichloropropane [78-87-5]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,3-Dichlorobenzene [541-73-1]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,4-Dichlorobenzene [106-46-7]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
1,4-Dioxane [123-91-1]^	ND		mg/kg dry	1	0.013	0.060	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
2-Butanone [78-93-3]^	**0.30**		mg/kg dry	1	0.0008	0.0050	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
2-Hexanone [591-78-6]^	ND		mg/kg dry	1	0.0008	0.0050	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
4-Methyl-2-pentanone [108-10-1]^	ND		mg/kg dry	1	0.0006	0.0050	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Acetone [67-64-1]^	**0.40**		mg/kg dry	1	0.0014	0.0050	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Benzene [71-43-2]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Bromochloromethane [74-97-5]^	ND		mg/kg dry	1	0.0004	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Bromodichloromethane [75-27-4]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Bromoform [75-25-2]^	ND		mg/kg dry	1	0.0005	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Bromomethane [74-83-9]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Carbon disulfide [75-15-0]^	ND		mg/kg dry	1	0.0004	0.0050	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Carbon Tetrachloride [56-23-5]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Chlorobenzene [108-90-7]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Chloroethane [75-00-3]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Chloroform [67-66-3]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Chloromethane [74-87-3]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
cis-1,2-Dichloroethene [156-59-2]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
cis-1,3-Dichloropropene [10061-01-5]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Cyclohexane [110-82-7]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Dibromochloromethane [124-48-1]^	ND		mg/kg dry	1	0.0004	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Dichlorodifluoromethane [75-71-8]^	ND		mg/kg dry	1	0.0005	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Ethylbenzene [100-41-4]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Freon 113 [76-13-1]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Isopropylbenzene [98-82-8]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
m,p-Xylenes [108-38-3/106-42-3]^	ND		mg/kg dry	1	0.0004	0.0020	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Methyl acetate [79-20-9]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Methyl cyclohexane [108-87-2]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Methylene Chloride [75-09-2]^	ND		mg/kg dry	1	0.0007	0.0020	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
o-Xylene [95-47-6]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Styrene [100-42-5]^	ND		mg/kg dry	1	0.0010	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Tetrachloroethene [127-18-4]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Toluene [108-88-3]^	**0.015**		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
trans-1,2-Dichloroethene [156-60-5]^	ND		mg/kg dry	1	0.0004	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	

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ANALYTICAL RESULTS

Description:	Dup 2	**Lab Sample ID:**	C313029-09	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 09:00	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	84.33

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		mg/kg dry	1	0.0004	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Trichloroethene [79-01-6]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Trichlorofluoromethane [75-69-4]^	ND		mg/kg dry	1	0.0003	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Vinyl chloride [75-01-4]^	ND		mg/kg dry	1	0.0002	0.0010	3J10036	EPA 8260B	10/11/13 06:23	MSZ	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*83 %*	*61-118*	*3J10036*	*EPA 8260B*	*10/11/13 06:23*	*MSZ*	
Dibromofluoromethane	*37*	*1*	*50.0*	*74 %*	*66-114*	*3J10036*	*EPA 8260B*	*10/11/13 06:23*	*MSZ*	
Toluene-d8	*41*	*1*	*50.0*	*81 %*	*63-118*	*3J10036*	*EPA 8260B*	*10/11/13 06:23*	*MSZ*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1R-.alpha.-Pinene [007785-70-8]	**0.017**	JN	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 06:23	MSZ	
3-Carene [013466-78-9]	**0.019**	JN	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Bicyclo[2.2.1]heptane, 7,7-... [000471-84-1]	**0.016**	JN	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Bicyclo[3.1.1]heptane, 6,6-... [018172-67-3]	**0.022**	JN	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 06:23	MSZ	
Cyclohexene, 1-methyl-4-(1-... [000586-62-9]	**0.0030**	JN	mg/kg dry	1			3J10036	EPA 8260B	10/11/13 06:23	MSZ	

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1'-Biphenyl [92-52-4]^	ND		mg/kg dry	1	0.39	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
1,2,4,5-Tetrachlorobenzene [95-94-3]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2,3,4,6-Tetrachlorophenol [58-90-2]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2,4,5-Trichlorophenol [95-95-4]^	ND		mg/kg dry	1	0.032	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2,4,6-Trichlorophenol [88-06-2]^	ND		mg/kg dry	1	0.032	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2,4-Dichlorophenol [120-83-2]^	ND		mg/kg dry	1	0.028	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2,4-Dimethylphenol [105-67-9]^	ND		mg/kg dry	1	0.051	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2,4-Dinitrophenol [51-28-5]^	ND		mg/kg dry	1	0.051	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2,4-Dinitrotoluene [121-14-2]^	ND		mg/kg dry	1	0.033	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2,6-Dinitrotoluene [606-20-2]^	ND		mg/kg dry	1	0.037	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2-Chloronaphthalene [91-58-7]^	ND		mg/kg dry	1	0.033	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2-Chlorophenol [95-57-8]^	ND		mg/kg dry	1	0.030	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2-Methyl-4,6-dinitrophenol [534-52-1]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2-Methylnaphthalene [91-57-6]^	ND		mg/kg dry	1	0.033	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2-Methylphenol [95-48-7]^	ND		mg/kg dry	1	0.030	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2-Nitroaniline [88-74-4]^	ND		mg/kg dry	1	0.036	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
2-Nitrophenol [88-75-5]^	ND		mg/kg dry	1	0.037	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
3 & 4-Methylphenol [108-39-4/106-44-5]^	**0.25**	J	mg/kg dry	1	0.031	0.47	3J08009	EPA 8270D	10/09/13 17:11	DFM	
3,3'-Dichlorobenzidine [91-94-1]^	ND		mg/kg dry	1	0.12	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
3-Nitroaniline [99-09-2]^	ND		mg/kg dry	1	0.043	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
4-Bromophenyl-phenylether [101-55-3]^	ND		mg/kg dry	1	0.032	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
4-Chloro-3-methylphenol [59-50-7]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
4-Chloroaniline [106-47-8]^	ND		mg/kg dry	1	0.11	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
4-Chlorophenyl-phenylether [7005-72-3]^	ND		mg/kg dry	1	0.031	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	

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ANALYTICAL RESULTS

Description: Dup 2	**Lab Sample ID:** C313029-09	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 84.33

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
4-Nitroaniline [100-01-6]^	ND		mg/kg dry	1	0.063	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
4-Nitrophenol [100-02-7]^	ND		mg/kg dry	1	0.037	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Acenaphthene [83-32-9]^	ND		mg/kg dry	1	0.033	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Acenaphthylene [208-96-8]^	ND		mg/kg dry	1	0.033	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Acetophenone [98-86-2]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Anthracene [120-12-7]^	ND		mg/kg dry	1	0.045	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Atrazine [1912-24-9]^	ND		mg/kg dry	1	0.39	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Benzaldehyde [100-52-7]^	ND		mg/kg dry	1	0.39	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Benzo(a)anthracene [56-55-3]^	ND		mg/kg dry	1	0.033	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Benzo(a)pyrene [50-32-8]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Benzo(b)fluoranthene [205-99-2]^	ND		mg/kg dry	1	0.021	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Benzo(g,h,i)perylene [191-24-2]^	ND		mg/kg dry	1	0.056	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Benzo(k)fluoranthene [207-08-9]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Bis(2-chloroethoxy)methane [111-91-1]^	ND		mg/kg dry	1	0.030	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Bis(2-chloroethyl)ether [111-44-4]^	ND		mg/kg dry	1	0.051	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Bis(2-chloroisopropyl)ether [108-60-1]^	ND		mg/kg dry	1	0.028	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Bis(2-ethylhexyl)phthalate [117-81-7]^	ND		mg/kg dry	1	0.042	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	QV-01
Butylbenzylphthalate [85-68-7]^	ND		mg/kg dry	1	0.047	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Caprolactam [105-60-2]^	ND		mg/kg dry	1	0.39	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Carbazole [86-74-8]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Chrysene [218-01-9]^	ND		mg/kg dry	1	0.036	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Dibenzo(a,h)anthracene [53-70-3]^	ND		mg/kg dry	1	0.060	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Dibenzofuran [132-64-9]^	ND		mg/kg dry	1	0.032	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Diethylphthalate [84-66-2]^	ND		mg/kg dry	1	0.033	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Dimethylphthalate [131-11-3]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Di-n-butylphthalate [84-74-2]^	ND		mg/kg dry	1	0.049	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Di-n-octylphthalate [117-84-0]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Fluoranthene [206-44-0]^	ND		mg/kg dry	1	0.043	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Fluorene [86-73-7]^	ND		mg/kg dry	1	0.034	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Hexachlorobenzene [118-74-1]^	ND		mg/kg dry	1	0.031	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Hexachlorobutadiene [87-68-3]^	ND		mg/kg dry	1	0.031	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Hexachlorocyclopentadiene [77-47-4]^	ND		mg/kg dry	1	0.046	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Hexachloroethane [67-72-1]^	ND		mg/kg dry	1	0.025	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Indeno(1,2,3-cd)pyrene [193-39-5]^	ND		mg/kg dry	1	0.056	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Isophorone [78-59-1]^	ND		mg/kg dry	1	0.036	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Naphthalene [91-20-3]^	ND		mg/kg dry	1	0.033	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Nitrobenzene [98-95-3]^	ND		mg/kg dry	1	0.031	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
N-Nitroso-di-n-propylamine [621-64-7]^	ND		mg/kg dry	1	0.096	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
N-nitrosodiphenylamine/Diphenylamine [86-30-6/122-39-4]^	ND		mg/kg dry	1	0.064	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Pentachlorophenol [87-86-5]^	ND		mg/kg dry	1	0.039	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Phenanthrene [85-01-8]^	ND		mg/kg dry	1	0.032	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	
Phenol [108-95-2]^	ND		mg/kg dry	1	0.026	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	QL-02
Pyrene [129-00-0]^	ND		mg/kg dry	1	0.045	0.39	3J08009	EPA 8270D	10/09/13 17:11	DFM	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
2,4,6-Tribromophenol	*3.3*	*1*	*3.95*	*83 %*	*28-130*	*3J08009*	*EPA 8270D*	*10/09/13 17:11*	*DFM*	
2-Fluorobiphenyl	*1.6*	*1*	*1.98*	*82 %*	*49-105*	*3J08009*	*EPA 8270D*	*10/09/13 17:11*	*DFM*	

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ANALYTICAL RESULTS

Description: Dup 2	**Lab Sample ID:** C313029-09	**Received:** 10/04/13 18:30
Matrix: Soil	**Sampled:** 10/04/13 09:00	**Work Order:** C313029
Project: Spring Hope Dump	**Sampled By:** Alex Culpepper	**% Solids:** 84.33

Semivolatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
2-Fluorophenol	*2.8*	*1*	*3.95*	*72 %*	*28-95*		*3J08009*	*EPA 8270D*	*10/09/13 17:11*	*DFM*	
Nitrobenzene-d5	*1.6*	*1*	*1.98*	*82 %*	*50-117*		*3J08009*	*EPA 8270D*	*10/09/13 17:11*	*DFM*	
Phenol-d5	*3.2*	*1*	*3.95*	*81 %*	*21-184*		*3J08009*	*EPA 8270D*	*10/09/13 17:11*	*DFM*	
Terphenyl-d14	*1.8*	*1*	*1.98*	*91 %*	*54-124*		*3J08009*	*EPA 8270D*	*10/09/13 17:11*	*DFM*	

Tentatively Identified Compounds by Semivolatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Eicosane [000112-95-8]	**0.19**	JBN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 17:11	DFM	B
n-Hexadecanoic acid [000057-10-3]	**0.85**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 17:11	DFM	
Octadecanoic acid [000057-11-4]	**0.83**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 17:11	DFM	
Pentacosane [000629-99-2]	**0.16**	JN	mg/kg dry	1			3J08009	EPA 8270D	10/09/13 17:11	DFM	

Metals by EPA 6000/7000 Series Methods

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	2	0.261	2.37	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Arsenic [7440-38-2]^	**0.655**	JD	mg/kg dry	2	0.237	1.19	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Beryllium [7440-41-7]^	**0.0459**	JD	mg/kg dry	2	0.0285	0.119	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Cadmium [7440-43-9]^	**0.0408**	JD	mg/kg dry	2	0.0228	0.119	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Chromium [7440-47-3]^	**3.38**	D	mg/kg dry	2	0.237	1.19	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Copper [7440-50-8]^	**2.38**	D	mg/kg dry	2	0.451	1.19	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Iron [7439-89-6]^	**3170**	BD	mg/kg dry	2	1.14	5.93	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Lead [7439-92-1]^	**12.0**	D	mg/kg dry	2	0.285	1.19	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Manganese [7439-96-5]^	**17.0**	D	mg/kg dry	2	0.237	1.19	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Mercury [7439-97-6]^	**0.0522**		mg/kg dry	1	0.00818	0.0285	3J15011	EPA 7471B	10/17/13 14:52	T1D	
Nickel [7440-02-0]^	ND		mg/kg dry	2	0.854	5.93	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Selenium [7782-49-2]^	ND		mg/kg dry	2	0.237	1.19	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Silver [7440-22-4]^	ND		mg/kg dry	2	0.237	1.19	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Thallium [7440-28-0]^	ND		mg/kg dry	2	0.237	1.19	3K07027	EPA 6010C	11/14/13 13:57	JDH	
Zinc [7440-66-6]^	**14.0**	D	mg/kg dry	2	2.61	5.93	3K07027	EPA 6010C	11/14/13 13:57	JDH	

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Ammonia as N [7664-41-7]	**5.9**		mg/kg dry	1	0.53	1.2	3J10004	EPA 350.1	10/11/13 11:58	c1v	
Nitrate as N [14797-55-8]	**2.0**	J	mg/kg dry	1	0.8	12	3J10003	EPA 9056A	10/10/13 14:53	AJB	
Sulfate as SO4 [14808-79-8]	ND		mg/kg dry	1	34	59	3J10003	EPA 9056A	10/10/13 14:53	AJB	

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ANALYTICAL RESULTS

Description:	Dup 2	**Lab Sample ID:**	C313029-09	**Received:**	10/04/13 18:30
Matrix:	Soil	**Sampled:**	10/04/13 09:00	**Work Order:**	C313029
Project:	Spring Hope Dump	**Sampled By:**	Alex Culpepper	**% Solids:**	84.33

Metals by EPA 6000/7000 Series Methods

^ - ENCO Orlando certified analyte [NC 424]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Antimony [7440-36-0]^	ND		mg/kg dry	20	4.76	11.9	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Arsenic [7440-38-2]^	ND		mg/kg dry	20	12.1	23.8	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Beryllium [7440-41-7]^	ND		mg/kg dry	20	2.38	47.6	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Cadmium [7440-43-9]^	ND		mg/kg dry	20	3.10	23.8	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Chromium [7440-47-3]^	ND		mg/kg dry	20	13.1	119	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Copper [7440-50-8]^	**6.29**	JD	mg/kg dry	20	5.24	23.8	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Iron [7439-89-6]^	**6950**	D	mg/kg dry	20	40.5	119	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Lead [7439-92-1]^	**34.9**	JD	mg/kg dry	20	5.71	119	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Manganese [7439-96-5]^	**54.0**	D	mg/kg dry	20	6.67	23.8	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Nickel [7440-02-0]^	ND		mg/kg dry	20	5.95	23.8	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Selenium [7782-49-2]^	ND		mg/kg dry	20	21.7	23.8	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Silver [7440-22-4]^	ND		mg/kg dry	20	1.31	11.9	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Thallium [7440-28-0]^	ND		mg/kg dry	20	0.881	23.8	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01
Zinc [7440-66-6]^	**82.0**	JD	mg/kg dry	20	31.0	119	3J08019	EPA 6020A	10/14/13 13:13	JMA	R-01

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C313029-10 | **Received:** 10/04/13 18:30

Matrix: Water | **Sampled:** 10/04/13 09:00 | **Work Order:** C313029

Project: Spring Hope Dump | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
1,1,1-Trichloroethane [71-55-6]^	ND		ug/L	1	0.12	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,1,2,2-Tetrachloroethane [79-34-5]^	ND		ug/L	1	0.28	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,1,2-Trichloroethane [79-00-5]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,1-Dichloroethane [75-34-3]^	ND		ug/L	1	0.13	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,1-Dichloroethene [75-35-4]^	ND		ug/L	1	0.21	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,2,3-Trichlorobenzene [87-61-6]^	ND		ug/L	1	0.01	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,2,4-Trichlorobenzene [120-82-1]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,2-Dibromo-3-chloropropane [96-12-8]^	ND		ug/L	1	0.48	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,2-Dibromoethane [106-93-4]^	ND		ug/L	1	0.66	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,2-Dichlorobenzene [95-50-1]^	ND		ug/L	1	0.19	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,2-Dichloroethane [107-06-2]^	ND		ug/L	1	0.21	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,2-Dichloropropane [78-87-5]^	ND		ug/L	1	0.10	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,3-Dichlorobenzene [541-73-1]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,4-Dichlorobenzene [106-46-7]^	ND		ug/L	1	0.19	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
1,4-Dioxane [123-91-1]^	ND		ug/L	1	25	60	3J07030	EPA 8260B	10/08/13 21:38	REF	
2-Butanone [78-93-3]^	ND		ug/L	1	1.3	5.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
2-Hexanone [591-78-6]^	ND		ug/L	1	0.88	5.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
4-Methyl-2-pentanone [108-10-1]^	ND		ug/L	1	1.1	5.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Acetone [67-64-1]^	ND		ug/L	1	1.2	5.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Benzene [71-43-2]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Bromochloromethane [74-97-5]^	ND		ug/L	1	0.48	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Bromodichloromethane [75-27-4]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Bromoform [75-25-2]^	ND		ug/L	1	0.22	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Bromomethane [74-83-9]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Carbon disulfide [75-15-0]^	ND		ug/L	1	1.5	5.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Carbon Tetrachloride [56-23-5]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Chlorobenzene [108-90-7]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Chloroethane [75-00-3]^	ND		ug/L	1	0.23	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Chloroform [67-66-3]^	ND		ug/L	1	0.18	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Chloromethane [74-87-3]^	ND		ug/L	1	0.13	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
cis-1,2-Dichloroethene [156-59-2]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
cis-1,3-Dichloropropene [10061-01-5]^	ND		ug/L	1	0.20	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Cyclohexane [110-82-7]^	ND		ug/L	1	0.36	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Dibromochloromethane [124-48-1]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Dichlorodifluoromethane [75-71-8]^	ND		ug/L	1	0.20	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Ethylbenzene [100-41-4]^	ND		ug/L	1	0.13	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Freon 113 [76-13-1]^	ND		ug/L	1	0.35	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Isopropylbenzene [98-82-8]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
m,p-Xylenes [108-38-3/106-42-3]^	ND		ug/L	1	0.17	2.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Methyl acetate [79-20-9]^	ND		ug/L	1	0.51	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Methyl cyclohexane [108-87-2]^	ND		ug/L	1	0.54	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Methylene Chloride [75-09-2]^	ND		ug/L	1	0.23	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Methyl-tert-Butyl Ether [1634-04-4]^	ND		ug/L	1	0.16	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
o-Xylene [95-47-6]^	ND		ug/L	1	0.06	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Styrene [100-42-5]^	ND		ug/L	1	0.11	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Tetrachloroethene [127-18-4]^	ND		ug/L	1	0.17	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Toluene [108-88-3]^	ND		ug/L	1	0.14	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
trans-1,2-Dichloroethene [156-60-5]^	ND		ug/L	1	0.21	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	

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ANALYTICAL RESULTS

Description: Trip Blank | **Lab Sample ID:** C313029-10 | **Received:** 10/04/13 18:30
Matrix: Water | **Sampled:** 10/04/13 09:00 | **Work Order:** C313029
Project: Spring Hope Dump | **Sampled By:** ENCO

Volatile Organic Compounds by GCMS

^ - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
trans-1,3-Dichloropropene [10061-02-6]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Trichloroethene [79-01-6]^	ND		ug/L	1	0.15	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Trichlorofluoromethane [75-69-4]^	ND		ug/L	1	0.24	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	
Vinyl chloride [75-01-4]^	ND		ug/L	1	0.32	1.0	3J07030	EPA 8260B	10/08/13 21:38	REF	

Surrogates	*Results*	*DF*	*Spike Lvl*	*% Rec*	*% Rec Limits*	*Batch*	*Method*	*Analyzed*	*By*	Notes
4-Bromofluorobenzene	*41*	*1*	*50.0*	*81 %*	*51-122*	*3J07030*	*EPA 8260B*	*10/08/13 21:38*	*REF*	
Dibromofluoromethane	*43*	*1*	*50.0*	*85 %*	*68-117*	*3J07030*	*EPA 8260B*	*10/08/13 21:38*	*REF*	
Toluene-d8	*46*	*1*	*50.0*	*92 %*	*67-127*	*3J07030*	*EPA 8260B*	*10/08/13 21:38*	*REF*	

Tentatively Identified Compounds by Volatile GCMS

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	PQL	Batch	Method	Analyzed	By	Notes
Tentatively Identified Compounds [NA]	**0.0**	U	ug/L	1			3J07030	EPA 8260B	10/08/13 21:38	REF	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J07030 - EPA 5030B_MS

Blank (3J07030-BLK1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 12:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.12	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.28	U	1.0	ug/L							
1,1,2-Trichloroethane	0.14	U	1.0	ug/L							
1,1-Dichloroethane	0.13	U	1.0	ug/L							
1,1-Dichloroethene	0.21	U	1.0	ug/L							
1,2,3-Trichlorobenzene	0.01	U	1.0	ug/L							
1,2,4-Trichlorobenzene	0.14	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.66	U	1.0	ug/L							
1,2-Dichlorobenzene	0.19	U	1.0	ug/L							
1,2-Dichloroethane	0.21	U	1.0	ug/L							
1,2-Dichloropropane	0.10	U	1.0	ug/L							
1,3-Dichlorobenzene	0.15	U	1.0	ug/L							
1,4-Dichlorobenzene	0.19	U	1.0	ug/L							
1,4-Dioxane	25	U	60	ug/L							
2-Butanone	1.3	U	5.0	ug/L							
2-Hexanone	0.88	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.2	U	5.0	ug/L							
Benzene	0.15	U	1.0	ug/L							
Bromochloromethane	0.48	U	1.0	ug/L							
Bromodichloromethane	0.17	U	1.0	ug/L							
Bromoform	0.22	U	1.0	ug/L							
Bromomethane	0.14	U	1.0	ug/L							
Carbon disulfide	1.5	U	5.0	ug/L							
Carbon Tetrachloride	0.17	U	1.0	ug/L							
Chlorobenzene	0.17	U	1.0	ug/L							
Chloroethane	0.23	U	1.0	ug/L							
Chloroform	0.18	U	1.0	ug/L							
Chloromethane	0.13	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.15	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.20	U	1.0	ug/L							
Cyclohexane	0.36	U	1.0	ug/L							
Dibromochloromethane	0.17	U	1.0	ug/L							
Dichlorodifluoromethane	0.20	U	1.0	ug/L							
Ethylbenzene	0.13	U	1.0	ug/L							
Freon 113	0.35	U	1.0	ug/L							
Isopropylbenzene	0.14	U	1.0	ug/L							
m,p-Xylenes	0.17	U	2.0	ug/L							
Methyl acetate	0.51	U	1.0	ug/L							
Methyl cyclohexane	0.54	U	1.0	ug/L							
Methylene Chloride	0.23	U	1.0	ug/L							
Methyl-tert-Butyl Ether	0.16	U	1.0	ug/L							
o-Xylene	0.06	U	1.0	ug/L							
Styrene	0.11	U	1.0	ug/L							
Tetrachloroethene	0.17	U	1.0	ug/L							
Toluene	0.14	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.21	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.15	U	1.0	ug/L							

This report relates only to the sample as received by the laboratory, and may only be reproduced in full.

QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J07030 - EPA 5030B_MS - Continued

Blank (3J07030-BLK1) Continued Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 12:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	0.15	U	1.0	ug/L							
Trichlorofluoromethane	0.24	U	1.0	ug/L							
Vinyl chloride	0.32	U	1.0	ug/L							
4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*80*	*51-122*			
Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Toluene-d8	*49*			*ug/L*	*50.0*		*98*	*67-127*			

LCS (3J07030-BS1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 13:15

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0		90	75-133			
Benzene	20		1.0	ug/L	20.0		100	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		98	83-117			
Cyclohexane	12		1.0	ug/L	20.0		61	0-200			
Methyl acetate	13		1.0	ug/L	20.0		64	0-200			
Methyl cyclohexane	20		1.0	ug/L	20.0		99	0-200			
Toluene	18		1.0	ug/L	20.0		91	71-118			
Trichloroethene	19		1.0	ug/L	20.0		96	74-119			
4-Bromofluorobenzene	*45*			*ug/L*	*50.0*		*89*	*51-122*			
Dibromofluoromethane	*39*			*ug/L*	*50.0*		*78*	*68-117*			
Toluene-d8	*48*			*ug/L*	*50.0*		*95*	*67-127*			

Matrix Spike (3J07030-MS1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 13:45

Source: C312883-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.21 U	96	75-133			
Benzene	19		1.0	ug/L	20.0	0.15 U	93	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	83-117			
Cyclohexane	13		1.0	ug/L	20.0	0.36 U	67	0-200			
Methyl acetate	14		1.0	ug/L	20.0	0.51 U	71	0-200			
Methyl cyclohexane	17		1.0	ug/L	20.0	0.54 U	86	0-200			
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118			
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	85	74-119			
4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Dibromofluoromethane	*43*			*ug/L*	*50.0*		*86*	*68-117*			
Toluene-d8	*47*			*ug/L*	*50.0*		*93*	*67-127*			

Matrix Spike Dup (3J07030-MSD1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 14:14

Source: C312883-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.21 U	89	75-133	8	20	
Benzene	16		1.0	ug/L	20.0	0.15 U	82	81-134	13	17	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	83-117	6	16	
Cyclohexane	12		1.0	ug/L	20.0	0.36 U	62	0-200	8	50	
Methyl acetate	13		1.0	ug/L	20.0	0.51 U	66	0-200	8	50	
Methyl cyclohexane	18		1.0	ug/L	20.0	0.54 U	92	0-200	7	50	
Toluene	18		1.0	ug/L	20.0	0.14 U	89	71-118	0	17	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J07030 - EPA 5030B_MS - Continued

Matrix Spike Dup (3J07030-MSD1) Continued Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 14:14

Source: C312883-08

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Trichloroethene	17		1.0	ug/L	20.0	0.15 U	87	74-119	2	22	
4-Bromofluorobenzene	*44*			*ug/L*	*50.0*		*89*	*51-122*			
Dibromofluoromethane	*41*			*ug/L*	*50.0*		*82*	*68-117*			
Toluene-d8	*48*			*ug/L*	*50.0*		*96*	*67-127*			

Batch 3J10027 - EPA 5035_MS

Blank (3J10027-BLK1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 16:11

Analyte	Result	Flag	POL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J10027 - EPA 5035_MS - Continued

Blank (3J10027-BLK1) Continued Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 16:11

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*77*	*61-118*			
Dibromofluoromethane	*36*			*ug/L*	*50.0*		*72*	*66-114*			
Toluene-d8	*40*			*ug/L*	*50.0*		*79*	*63-118*			

LCS (3J10027-BS1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 13:14

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		104	64-133			
Benzene	20		1.0	ug/L	20.0		98	79-129			
Chlorobenzene	21		1.0	ug/L	20.0		107	79-121			
Toluene	21		1.0	ug/L	20.0		107	77-120			
Trichloroethene	20		1.0	ug/L	20.0		101	78-118			
4-Bromofluorobenzene	*41*			*ug/L*	*50.0*		*82*	*61-118*			
Dibromofluoromethane	*37*			*ug/L*	*50.0*		*74*	*66-114*			
Toluene-d8	*41*			*ug/L*	*50.0*		*82*	*63-118*			

Matrix Spike (3J10027-MS1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 13:44

Source: C313047-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0	0.30 U	108	64-133			
Benzene	21		1.0	ug/L	20.0	0.17 U	104	79-129			
Chlorobenzene	22		1.0	ug/L	20.0	0.17 U	109	79-121			
Toluene	22		1.0	ug/L	20.0	0.24 U	109	77-120			
Trichloroethene	21		1.0	ug/L	20.0	0.32 U	105	78-118			
4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*77*	*61-118*			
Dibromofluoromethane	*37*			*ug/L*	*50.0*		*75*	*66-114*			
Toluene-d8	*40*			*ug/L*	*50.0*		*80*	*63-118*			

Matrix Spike Dup (3J10027-MSD1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 14:13

Source: C313047-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.30 U	106	64-133	2	23	
Benzene	20		1.0	ug/L	20.0	0.17 U	99	79-129	4	23	
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	104	79-121	4	25	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J10027 - EPA 5035_MS - Continued

Matrix Spike Dup (3J10027-MSD1) Continued Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 14:13

Source: C313047-08

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Toluene	21		1.0	ug/L	20.0	0.24 U	104	77-120	5	23	
Trichloroethene	20		1.0	ug/L	20.0	0.32 U	100	78-118	5	24	
4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*75*	*61-118*			
Dibromofluoromethane	*36*			*ug/L*	*50.0*		*71*	*66-114*			
Toluene-d8	*39*			*ug/L*	*50.0*		*77*	*63-118*			

Batch 3J10036 - EPA 5035_MS

Blank (3J10036-BLK1) Prepared: 10/10/2013 15:09 Analyzed: 10/11/2013 01:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.0010	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.0010	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.0010	mg/kg wet							
1,2,3-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2,4-Trichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.0010	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.0010	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.0010	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.0010	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.0010	mg/kg wet							
1,3-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.0010	mg/kg wet							
1,4-Dioxane	0.013	U	0.060	mg/kg wet							
2-Butanone	0.0008	U	0.0050	mg/kg wet							
2-Hexanone	0.0008	U	0.0050	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.0050	mg/kg wet							
Acetone	0.0014	U	0.0050	mg/kg wet							
Benzene	0.0002	U	0.0010	mg/kg wet							
Bromochloromethane	0.0004	U	0.0010	mg/kg wet							
Bromodichloromethane	0.0002	U	0.0010	mg/kg wet							
Bromoform	0.0004	U	0.0010	mg/kg wet							
Bromomethane	0.0003	U	0.0010	mg/kg wet							
Carbon disulfide	0.0004	U	0.0050	mg/kg wet							
Carbon Tetrachloride	0.0002	U	0.0010	mg/kg wet							
Chlorobenzene	0.0002	U	0.0010	mg/kg wet							
Chloroethane	0.0002	U	0.0010	mg/kg wet							
Chloroform	0.0002	U	0.0010	mg/kg wet							
Chloromethane	0.0002	U	0.0010	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.0010	mg/kg wet							
cis-1,3-Dichloropropene	0.0002	U	0.0010	mg/kg wet							
Cyclohexane	0.0002	U	0.0010	mg/kg wet							
Dibromochloromethane	0.0004	U	0.0010	mg/kg wet							
Dichlorodifluoromethane	0.0004	U	0.0010	mg/kg wet							
Ethylbenzene	0.0002	U	0.0010	mg/kg wet							
Freon 113	0.0002	U	0.0010	mg/kg wet							
Isopropylbenzene	0.0002	U	0.0010	mg/kg wet							

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J10036 - EPA 5035_MS - Continued

Blank (3J10036-BLK1) Continued Prepared: 10/10/2013 15:09 Analyzed: 10/11/2013 01:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
m,p-Xylenes	0.0004	U	0.0020	mg/kg wet							
Methyl acetate	0.0002	U	0.0010	mg/kg wet							
Methyl cyclohexane	0.0003	U	0.0010	mg/kg wet							
Methylene Chloride	0.0007	U	0.0020	mg/kg wet							
Methyl-tert-Butyl Ether	0.0003	U	0.0010	mg/kg wet							
o-Xylene	0.0002	U	0.0010	mg/kg wet							
Styrene	0.0010	U	0.0010	mg/kg wet							
Tetrachloroethene	0.0003	U	0.0010	mg/kg wet							
Toluene	0.0002	U	0.0010	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.0010	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.0010	mg/kg wet							
Trichloroethene	0.0003	U	0.0010	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.0010	mg/kg wet							
Vinyl chloride	0.0002	U	0.0010	mg/kg wet							
4-Bromofluorobenzene	*39*			*ug/L*	*50.0*		*79*	*61-118*			
Dibromofluoromethane	*38*			*ug/L*	*50.0*		*76*	*66-114*			
Toluene-d8	*40*			*ug/L*	*50.0*		*79*	*63-118*			

LCS (3J10036-BS1) Prepared: 10/10/2013 15:09 Analyzed: 10/11/2013 01:30

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	22		1.0	ug/L	20.0		109	64-133			
Benzene	20		1.0	ug/L	20.0		101	79-129			
Chlorobenzene	21		1.0	ug/L	20.0		103	79-121			
Toluene	21		1.0	ug/L	20.0		104	77-120			
Trichloroethene	20		1.0	ug/L	20.0		98	78-118			
4-Bromofluorobenzene	*40*			*ug/L*	*50.0*		*81*	*61-118*			
Dibromofluoromethane	*39*			*ug/L*	*50.0*		*77*	*66-114*			
Toluene-d8	*41*			*ug/L*	*50.0*		*83*	*63-118*			

Matrix Spike (3J10036-MS1) Prepared: 10/10/2013 15:09 Analyzed: 10/11/2013 01:59

Source: C313047-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.30 U	102	64-133			
Benzene	19		1.0	ug/L	20.0	0.17 U	97	79-129			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	79-121			
Toluene	20		1.0	ug/L	20.0	0.24 U	101	77-120			
Trichloroethene	19		1.0	ug/L	20.0	0.32 U	97	78-118			
4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*76*	*61-118*			
Dibromofluoromethane	*36*			*ug/L*	*50.0*		*72*	*66-114*			
Toluene-d8	*39*			*ug/L*	*50.0*		*77*	*63-118*			

Matrix Spike Dup (3J10036-MSD1) Prepared: 10/10/2013 15:09 Analyzed: 10/11/2013 02:29

Source: C313047-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.30 U	97	64-133	4	23	
Benzene	19		1.0	ug/L	20.0	0.17 U	93	79-129	4	23	

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QUALITY CONTROL DATA

Volatile Organic Compounds by GCMS - Quality Control

Batch 3J10036 - EPA 5035_MS - Continued

Matrix Spike Dup (3J10036-MSD1) Continued Prepared: 10/10/2013 15:09 Analyzed: 10/11/2013 02:29

Source: C313047-07

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	98	79-121	4	25	
Toluene	19		1.0	ug/L	20.0	0.24 U	96	77-120	4	23	
Trichloroethene	19		1.0	ug/L	20.0	0.32 U	93	78-118	3	24	
4-Bromofluorobenzene	*38*			*ug/L*	*50.0*		*77*	*61-118*			
Dibromofluoromethane	*36*			*ug/L*	*50.0*		*72*	*66-114*			
Toluene-d8	*40*			*ug/L*	*50.0*		*79*	*63-118*			

Tentatively Identified Compounds by Volatile GCMS - Quality Control

Batch 3J07030 - EPA 5030B_MS

Blank (3J07030-BLK1) Prepared: 10/07/2013 17:14 Analyzed: 10/08/2013 12:45

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		ug/L							

Batch 3J10027 - EPA 5035_MS

Blank (3J10027-BLK1) Prepared: 10/10/2013 12:34 Analyzed: 10/10/2013 16:11

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		mg/kg wet							

Batch 3J10036 - EPA 5035_MS

Blank (3J10036-BLK1) Prepared: 10/10/2013 15:09 Analyzed: 10/11/2013 01:00

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Tentatively Identified Compounds	**0.0**	**U**		mg/kg wet							

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J08009 - EPA 3550C_MS

Blank (3J08009-BLK1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1'-Biphenyl	0.33	U	0.33	mg/kg wet							
1,2,4,5-Tetrachlorobenzene	0.033	U	0.33	mg/kg wet							
2,3,4,6-Tetrachlorophenol	0.033	U	0.33	mg/kg wet							
2,4,5-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4,6-Trichlorophenol	0.027	U	0.33	mg/kg wet							
2,4-Dichlorophenol	0.024	U	0.33	mg/kg wet							
2,4-Dimethylphenol	0.043	U	0.33	mg/kg wet							
2,4-Dinitrophenol	0.043	U	0.33	mg/kg wet							
2,4-Dinitrotoluene	0.028	U	0.33	mg/kg wet							
2,6-Dinitrotoluene	0.031	U	0.33	mg/kg wet							
2-Chloronaphthalene	0.028	U	0.33	mg/kg wet							
2-Chlorophenol	0.025	U	0.33	mg/kg wet							
2-Methyl-4,6-dinitrophenol	0.033	U	0.33	mg/kg wet							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J08009 - EPA 3550C_MS - Continued

Blank (3J08009-BLK1) Continued Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Methylnaphthalene	0.028	U	0.33	mg/kg wet							
2-Methylphenol	0.025	U	0.33	mg/kg wet							
2-Nitroaniline	0.030	U	0.33	mg/kg wet							
2-Nitrophenol	0.031	U	0.33	mg/kg wet							
3 & 4-Methylphenol	0.026	U	0.40	mg/kg wet							
3,3'-Dichlorobenzidine	0.098	U	0.33	mg/kg wet							
3-Nitroaniline	0.036	U	0.33	mg/kg wet							
4-Bromophenyl-phenylether	0.027	U	0.33	mg/kg wet							
4-Chloro-3-methylphenol	0.033	U	0.33	mg/kg wet							
4-Chloroaniline	0.093	U	0.33	mg/kg wet							
4-Chlorophenyl-phenylether	0.026	U	0.33	mg/kg wet							
4-Nitroaniline	0.053	U	0.33	mg/kg wet							
4-Nitrophenol	0.031	U	0.33	mg/kg wet							
Acenaphthene	0.028	U	0.33	mg/kg wet							
Acenaphthylene	0.028	U	0.33	mg/kg wet							
Acetophenone	0.033	U	0.33	mg/kg wet							
Anthracene	0.038	U	0.33	mg/kg wet							
Atrazine	0.33	U	0.33	mg/kg wet							
Benzaldehyde	0.33	U	0.33	mg/kg wet							
Benzo(a)anthracene	0.028	U	0.33	mg/kg wet							
Benzo(a)pyrene	0.033	U	0.33	mg/kg wet							
Benzo(b)fluoranthene	0.018	U	0.33	mg/kg wet							
Benzo(g,h,i)perylene	0.047	U	0.33	mg/kg wet							
Benzo(k)fluoranthene	0.033	U	0.33	mg/kg wet							
Bis(2-chloroethoxy)methane	0.025	U	0.33	mg/kg wet							
Bis(2-chloroethyl)ether	0.043	U	0.33	mg/kg wet							
Bis(2-chloroisopropyl)ether	0.024	U	0.33	mg/kg wet							
Bis(2-ethylhexyl)phthalate	0.035	U	0.33	mg/kg wet							QV-01
Butylbenzylphthalate	0.040	U	0.33	mg/kg wet							
Caprolactam	0.33	U	0.33	mg/kg wet							
Carbazole	0.033	U	0.33	mg/kg wet							
Chrysene	0.030	U	0.33	mg/kg wet							
Dibenzo(a,h)anthracene	0.051	U	0.33	mg/kg wet							
Dibenzofuran	0.027	U	0.33	mg/kg wet							
Diethylphthalate	0.028	U	0.33	mg/kg wet							
Dimethylphthalate	0.033	U	0.33	mg/kg wet							
Di-n-butylphthalate	0.041	U	0.33	mg/kg wet							
Di-n-octylphthalate	0.033	U	0.33	mg/kg wet							
Fluoranthene	0.036	U	0.33	mg/kg wet							
Fluorene	0.029	U	0.33	mg/kg wet							
Hexachlorobenzene	0.026	U	0.33	mg/kg wet							
Hexachlorobutadiene	0.026	U	0.33	mg/kg wet							
Hexachlorocyclopentadiene	0.039	U	0.33	mg/kg wet							
Hexachloroethane	0.021	U	0.33	mg/kg wet							
Indeno(1,2,3-cd)pyrene	0.047	U	0.33	mg/kg wet							
Isophorone	0.030	U	0.33	mg/kg wet							
Naphthalene	0.028	U	0.33	mg/kg wet							
Nitrobenzene	0.026	U	0.33	mg/kg wet							
N-Nitroso-di-n-propylamine	0.081	U	0.33	mg/kg wet							

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J08009 - EPA 3550C_MS - Continued

Blank (3J08009-BLK1) Continued Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
N-nitrosodiphenylamine/Diphenylamine	0.054	U	0.33	mg/kg wet							
Pentachlorophenol	0.033	U	0.33	mg/kg wet							
Phenanthrene	0.027	U	0.33	mg/kg wet							
Phenol	0.022	U	0.33	mg/kg wet							
Pyrene	0.038	U	0.33	mg/kg wet							
2,4,6-Tribromophenol	*2.8*			*mg/kg wet*	*3.33*		*84*	*28-130*			
2-Fluorobiphenyl	*1.5*			*mg/kg wet*	*1.67*		*90*	*49-105*			
2-Fluorophenol	*2.8*			*mg/kg wet*	*3.33*		*85*	*28-95*			
Nitrobenzene-d5	*1.5*			*mg/kg wet*	*1.67*		*91*	*50-117*			
Phenol-d5	*3.0*			*mg/kg wet*	*3.33*		*90*	*21-184*			
Terphenyl-d14	*1.6*			*mg/kg wet*	*1.67*		*95*	*54-124*			

LCS (3J08009-BS1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:54

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.4		0.33	mg/kg wet	1.67		82	62-95			
4-Chloro-3-methylphenol	1.6		0.33	mg/kg wet	1.67		95	62-108			
4-Nitrophenol	1.3		0.33	mg/kg wet	1.67		81	21-97			
Acenaphthene	1.2		0.33	mg/kg wet	1.67		73	63-101			
Hexachlorocyclopentadiene	1.4		0.33	mg/kg wet	1.67		82	17-111			
N-Nitroso-di-n-propylamine	1.7		0.33	mg/kg wet	1.67		103	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.3		0.33	mg/kg wet	1.67		77	0-200			
Pentachlorophenol	1.1		0.33	mg/kg wet	1.67		69	25-120			
Phenol	1.6		0.33	mg/kg wet	1.67		94	31-78			QL-02
2,4,6-Tribromophenol	*2.7*			*mg/kg wet*	*3.33*		*81*	*42-123*			
2-Fluorobiphenyl	*1.5*			*mg/kg wet*	*1.67*		*89*	*49-105*			
2-Fluorophenol	*3.3*			*mg/kg wet*	*3.33*		*98*	*28-95*			*QS-03*
Nitrobenzene-d5	*1.6*			*mg/kg wet*	*1.67*		*96*	*50-117*			
Phenol-d5	*3.0*			*mg/kg wet*	*3.33*		*89*	*21-184*			
Terphenyl-d14	*1.2*			*mg/kg wet*	*1.67*		*74*	*54-124*			

Matrix Spike (3J08009-MS1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 12:23

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.8		0.41	mg/kg dry	2.07	0.031 U	87	62-95			
4-Chloro-3-methylphenol	2.0		0.41	mg/kg dry	2.07	0.041 U	94	62-108			
4-Nitrophenol	1.9		0.41	mg/kg dry	2.07	0.039 U	90	21-97			
Acenaphthene	1.9		0.41	mg/kg dry	2.07	0.035 U	90	63-101			
Hexachlorocyclopentadiene	1.7		0.41	mg/kg dry	2.07	0.048 U	83	17-111			
N-Nitroso-di-n-propylamine	1.9		0.41	mg/kg dry	2.07	0.10 U	92	57-106			
N-nitrosodiphenylamine/Diphenylamine	1.9		0.41	mg/kg dry	2.07	0.067 U	92	0-200			
Pentachlorophenol	1.6		0.41	mg/kg dry	2.07	0.041 U	77	25-120			
Phenol	1.8		0.41	mg/kg dry	2.07	0.027 U	86	31-78			QL-02
2,4,6-Tribromophenol	*3.6*			*mg/kg dry*	*4.14*		*86*	*42-123*			
2-Fluorobiphenyl	*1.9*			*mg/kg dry*	*2.07*		*91*	*49-105*			
2-Fluorophenol	*3.5*			*mg/kg dry*	*4.14*		*85*	*28-95*			
Nitrobenzene-d5	*1.9*			*mg/kg dry*	*2.07*		*90*	*50-117*			
Phenol-d5	*3.7*			*mg/kg dry*	*4.14*		*89*	*21-184*			

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QUALITY CONTROL DATA

Semivolatile Organic Compounds by GCMS - Quality Control

Batch 3J08009 - EPA 3550C_MS - Continued

Matrix Spike (3J08009-MS1) Continued Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 12:23

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Terphenyl-d14	*1.7*			*mg/kg dry*	*2.07*		*80*	*54-124*			

Matrix Spike Dup (3J08009-MSD1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 12:52

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorophenol	1.8		0.41	mg/kg dry	2.07	0.031 U	85	62-95	2	28	
4-Chloro-3-methylphenol	1.9		0.41	mg/kg dry	2.07	0.041 U	94	62-108	0.7	39	
4-Nitrophenol	1.8		0.41	mg/kg dry	2.07	0.039 U	89	21-97	0.8	43	
Acenaphthene	1.8		0.41	mg/kg dry	2.07	0.035 U	89	63-101	2	28	
Hexachlorocyclopentadiene	1.7		0.41	mg/kg dry	2.07	0.048 U	80	17-111	4	50	
N-Nitroso-di-n-propylamine	1.9		0.41	mg/kg dry	2.07	0.10 U	91	57-106	0.7	34	
N-nitrosodiphenylamine/Diphenylamine	1.9		0.41	mg/kg dry	2.07	0.067 U	90	0-200	2	200	
Pentachlorophenol	1.6		0.41	mg/kg dry	2.07	0.041 U	76	25-120	1	49	
Phenol	1.8		0.41	mg/kg dry	2.07	0.027 U	85	31-78	0.9	29	QL-02
2,4,6-Tribromophenol	*3.5*			*mg/kg dry*	*4.14*		*85*	*42-123*			
2-Fluorobiphenyl	*1.8*			*mg/kg dry*	*2.07*		*86*	*49-105*			
2-Fluorophenol	*3.3*			*mg/kg dry*	*4.14*		*80*	*28-95*			
Nitrobenzene-d5	*1.8*			*mg/kg dry*	*2.07*		*85*	*50-117*			
Phenol-d5	*3.6*			*mg/kg dry*	*4.14*		*87*	*21-184*			
Terphenyl-d14	*1.6*			*mg/kg dry*	*2.07*		*79*	*54-124*			

Tentatively Identified Compounds by Semivolatile GCMS - Quality Control

Batch 3J08009 - EPA 3550C_MS

Blank (3J08009-BLK1) Prepared: 10/08/2013 09:44 Analyzed: 10/09/2013 11:25

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
2-Chlorocyclohexanol	**0.19**	**JN**		mg/kg wet							

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J15011 - EPA 7471B

Blank (3J15011-BLK1) Prepared: 10/15/2013 10:07 Analyzed: 10/17/2013 14:17

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.00690	U	0.0240	mg/kg wet							

LCS (3J15011-BS1) Prepared: 10/15/2013 10:07 Analyzed: 10/17/2013 14:19

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.629		0.0240	mg/kg wet	0.600		105	80-120			

Matrix Spike (3J15011-MS1) Prepared: 10/15/2013 10:07 Analyzed: 10/17/2013 14:23

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	0.983		0.0298	mg/kg dry	0.699	0.214	110	80-120			

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J15011 - EPA 7471B - Continued

Matrix Spike Dup (3J15011-MSD1) Prepared: 10/15/2013 10:07 Analyzed: 10/17/2013 14:26

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	1.05		0.0298	mg/kg dry	0.746	0.214	112	80-120	6	20	

Post Spike (3J15011-PS1) Prepared: 10/15/2013 10:07 Analyzed: 10/17/2013 14:28

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Mercury	6.47		0.200	ug/L	5.00	1.48	100	75-125			

Batch 3K07027 - EPA 3050B

Blank (3K07027-BLK1) Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:34

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.110	U	1.00	mg/kg wet							
Arsenic	0.100	U	0.500	mg/kg wet							
Beryllium	0.0120	U	0.0500	mg/kg wet							
Cadmium	0.00960	U	0.0500	mg/kg wet							
Chromium	0.100	U	0.500	mg/kg wet							
Copper	0.190	U	0.500	mg/kg wet							
Iron	**0.995**	**J**	2.50	mg/kg wet							
Lead	0.120	U	0.500	mg/kg wet							
Manganese	0.100	U	0.500	mg/kg wet							
Nickel	0.360	U	2.50	mg/kg wet							
Selenium	**0.165**	**J**	0.500	mg/kg wet							
Silver	0.100	U	0.500	mg/kg wet							
Thallium	0.100	U	0.500	mg/kg wet							
Zinc	1.10	U	2.50	mg/kg wet							

LCS (3K07027-BS1) Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:44

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	8.63		1.00	mg/kg wet	10.0		86	80-120			
Arsenic	8.46		0.500	mg/kg wet	10.0		85	80-120			
Beryllium	0.836		0.0500	mg/kg wet	1.00		84	80-120			
Cadmium	0.867		0.0500	mg/kg wet	1.00		87	80-120			
Chromium	8.66		0.500	mg/kg wet	10.0		87	80-120			
Copper	8.64		0.500	mg/kg wet	10.0		86	80-120			
Iron	47.0	B	2.50	mg/kg wet	50.0		94	80-120			
Lead	8.87		0.500	mg/kg wet	10.0		89	80-120			
Manganese	8.49		0.500	mg/kg wet	10.0		85	80-120			
Nickel	8.91		2.50	mg/kg wet	10.0		89	80-120			
Selenium	8.56	B	0.500	mg/kg wet	10.0		86	80-120			
Silver	8.83		0.500	mg/kg wet	10.0		88	80-120			
Thallium	8.73		0.500	mg/kg wet	10.0		87	80-120			
Zinc	8.81		2.50	mg/kg wet	10.0		88	80-120			

Matrix Spike (3K07027-MS1) Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:50

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3K07027 - EPA 3050B - Continued

Matrix Spike (3K07027-MS1) Continued Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:50

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	3.62	JD	13.1	mg/kg dry	13.1	1.44 U	28	75-125			QM-05
Arsenic	18.6	D	6.55	mg/kg dry	13.1	9.96	66	75-125			QM-05
Beryllium	1.21	D	0.655	mg/kg dry	1.31	0.213	76	75-125			
Cadmium	2.12	D	0.655	mg/kg dry	1.31	1.52	46	75-125			QM-05
Chromium	21.4	D	6.55	mg/kg dry	13.1	15.3	46	75-125			QM-05
Copper	53.1	D	6.55	mg/kg dry	13.1	83.7	NR	75-125			QM-05
Iron	20500	BD	32.8	mg/kg dry	65.5	34100	NR	75-125			QM-05
Lead	227	D	6.55	mg/kg dry	13.1	343	NR	75-125			QM-05
Manganese	166	D	6.55	mg/kg dry	13.1	204	NR	75-125			QM-05
Nickel	17.8	JD	32.8	mg/kg dry	13.1	10.8	53	75-125			QM-05
Selenium	11.6	BD	6.55	mg/kg dry	13.1	1.31 U	88	75-125			
Silver	12.7	D	6.55	mg/kg dry	13.1	1.69	84	75-125			
Thallium	10.5	D	6.55	mg/kg dry	13.1	3.07	57	75-125			QM-05
Zinc	593	D	32.8	mg/kg dry	13.1	803	NR	75-125			QM-05

Matrix Spike Dup (3K07027-MSD1) Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:52

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	1.44	UD	13.1	mg/kg dry	13.2	1.44 U		75-125		20	QM-05
Arsenic	22.0	D	6.55	mg/kg dry	13.2	9.96	91	75-125	17	20	
Beryllium	1.35	D	0.655	mg/kg dry	1.32	0.213	86	75-125	11	20	
Cadmium	2.69	D	0.655	mg/kg dry	1.32	1.52	89	75-125	24	20	QM-11
Chromium	38.8	D	6.55	mg/kg dry	13.2	15.3	178	75-125	58	20	QM-05, QM-11
Copper	1850	D	6.55	mg/kg dry	13.2	83.7	NR	75-125	189	20	QM-05, QM-11
Iron	42900	BD	32.8	mg/kg dry	66.2	34100	NR	75-125	71	20	QM-05, QM-11
Lead	358	D	6.55	mg/kg dry	13.2	343	111	75-125	45	20	QM-11
Manganese	213	D	6.55	mg/kg dry	13.2	204	66	75-125	25	20	QM-05, QM-11
Nickel	23.2	JD	32.8	mg/kg dry	13.2	10.8	94	75-125	26	20	QM-11
Selenium	8.39	BD	6.55	mg/kg dry	13.2	1.31 U	63	75-125	32	20	QM-05, QM-11
Silver	13.9	D	6.55	mg/kg dry	13.2	1.69	93	75-125	10	20	
Thallium	11.6	D	6.55	mg/kg dry	13.2	3.07	64	75-125	9	20	QM-05
Zinc	718	D	32.8	mg/kg dry	13.2	803	NR	75-125	19	20	QM-05

Post Spike (3K07027-PS1) Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:54

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.0999	D	0.0200	mg/L	0.200	-0.0662	83	80-120			
Arsenic	0.337	D	0.0100	mg/L	0.200	0.150	93	80-120			
Beryllium	0.0212	D	0.00100	mg/L	0.0200	0.00322	90	80-120			
Cadmium	0.0377	D	0.00100	mg/L	0.0200	0.0229	74	80-120			QM-08
Chromium	0.407	D	0.0100	mg/L	0.200	0.231	88	80-120			
Copper	1.45	D	0.0100	mg/L	0.200	1.26	95	80-120			
Iron	502	BD	0.0500	mg/L	1.00	515	NR	80-120			QM-08
Lead	5.24	D	0.0100	mg/L	0.200	5.19	30	80-120			QM-08
Manganese	3.19	D	0.0100	mg/L	0.200	3.08	54	80-120			QM-08

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3K07027 - EPA 3050B - Continued

Post Spike (3K07027-PS1) Continued Prepared: 11/07/2013 13:19 Analyzed: 11/08/2013 14:54

Source: C312834-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	0.353	D	0.0500	mg/L	0.200	0.164	95	80-120			
Selenium	0.180	BD	0.0100	mg/L	0.200	0.00582	87	80-120			
Silver	0.208	D	0.0100	mg/L	0.200	0.0255	91	80-120			
Thallium	0.195	D	0.0100	mg/L	0.200	0.0464	74	80-120			QM-08
Zinc	12.0	D	0.0500	mg/L	0.200	12.1	NR	80-120			QM-08

Classical Chemistry Parameters - Quality Control

Batch 3J10003 - WETS-88 Soil Leaching

Blank (3J10003-BLK1) Prepared: 10/10/2013 09:24 Analyzed: 10/10/2013 10:49

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	0.7	U	10	mg/kg wet							
Sulfate as SO4	29	U	50	mg/kg wet							

LCS (3J10003-BS1) Prepared: 10/10/2013 09:24 Analyzed: 10/10/2013 11:06

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	46		10	mg/kg wet	49.5		93	80-120			
Sulfate as SO4	470		50	mg/kg wet	495		96	80-120			

Matrix Spike (3J10003-MS1) Prepared: 10/10/2013 09:24 Analyzed: 10/10/2013 11:24

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	22		12	mg/kg dry	23.4	2.3	82	80-120			
Sulfate as SO4	250		62	mg/kg dry	234	58	80	80-120			

Matrix Spike Dup (3J10003-MSD1) Prepared: 10/10/2013 09:24 Analyzed: 10/10/2013 11:41

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	23		12	mg/kg dry	24.7	2.3	83	80-120	6	15	
Sulfate as SO4	260		62	mg/kg dry	247	58	83	80-120	7	15	

Batch 3J10004 - WETS-88 Soil Leaching

Blank (3J10004-BLK1) Prepared: 10/10/2013 09:24 Analyzed: 10/11/2013 11:29

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	0.45	U	1.0	mg/kg wet							

LCS (3J10004-BS1) Prepared: 10/10/2013 09:24 Analyzed: 10/11/2013 11:31

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	11		1.0	mg/kg wet	9.90		107	90-110			

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QUALITY CONTROL DATA

Classical Chemistry Parameters - Quality Control

Batch 3J10004 - WETS-88 Soil Leaching - Continued

Matrix Spike (3J10004-MS1) Prepared: 10/10/2013 09:24 Analyzed: 10/11/2013 11:35

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	8.1		1.2	mg/kg dry	4.68	7.5	12	90-110			QM-05

Matrix Spike Dup (3J10004-MSD1) Prepared: 10/10/2013 09:24 Analyzed: 10/11/2013 11:38

Source: C313029-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Ammonia as N	3.1		1.2	mg/kg dry	4.94	7.5	NR	90-110	89	10	QM-11, QM-16

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J08019 - EPA 3050B

Blank (3J08019-BLK1) Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 10:53

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.200	U	0.500	mg/kg wet							
Arsenic	0.510	U	1.00	mg/kg wet							
Beryllium	0.100	U	2.00	mg/kg wet							
Cadmium	0.130	U	1.00	mg/kg wet							
Chromium	0.550	U	5.00	mg/kg wet							
Copper	0.220	U	1.00	mg/kg wet							
Iron	1.70	U	5.00	mg/kg wet							
Lead	0.240	U	5.00	mg/kg wet							
Manganese	0.280	U	1.00	mg/kg wet							
Nickel	0.250	U	1.00	mg/kg wet							
Selenium	0.910	U	1.00	mg/kg wet							
Silver	0.0550	U	0.500	mg/kg wet							
Thallium	0.0370	U	1.00	mg/kg wet							
Zinc	1.30	U	5.00	mg/kg wet							

LCS (3J08019-BS1) Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 10:57

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	5.17		0.500	mg/kg wet	5.00		103	80-120			
Arsenic	49.9		1.00	mg/kg wet	50.0		100	80-120			
Beryllium	5.08		2.00	mg/kg wet	5.00		102	80-120			
Cadmium	4.93		1.00	mg/kg wet	5.00		99	80-120			
Chromium	50.5		5.00	mg/kg wet	50.0		101	80-120			
Copper	50.2		1.00	mg/kg wet	50.0		100	80-120			
Iron	103		5.00	mg/kg wet	100		103	80-120			
Lead	50.3		5.00	mg/kg wet	50.0		101	80-120			
Manganese	50.4		1.00	mg/kg wet	50.0		101	80-120			
Nickel	50.2		1.00	mg/kg wet	50.0		100	80-120			
Selenium	49.5		1.00	mg/kg wet	50.0		99	80-120			
Silver	5.19		0.500	mg/kg wet	5.00		104	80-120			
Thallium	5.26		1.00	mg/kg wet	5.00		105	80-120			
Zinc	48.9		5.00	mg/kg wet	50.0		98	80-120			

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J08019 - EPA 3050B - Continued

Matrix Spike (3J08019-MS1) Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 11:16

Source: A305668-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	4.00	UD	10.0	mg/kg wet	4.85	4.00 U		75-125			QM-07
Arsenic	45.8	D	20.0	mg/kg wet	48.5	10.2 U	94	75-125			
Beryllium	4.14	JD	40.0	mg/kg wet	4.85	2.00 U	85	75-125			
Cadmium	7.42	JD	20.0	mg/kg wet	4.85	2.60 U	153	75-125			QM-07, QM-11
Chromium	75.5	JD	100	mg/kg wet	48.5	15.8	123	75-125			
Copper	169	D	20.0	mg/kg wet	48.5	63.1	218	75-125			QM-07
Iron	39000	DE	100	mg/kg wet	97.1	36900	NR	75-125			E, QM-11, QM-17
Lead	517	D	100	mg/kg wet	48.5	448	142	75-125			QM-07
Manganese	388	D	20.0	mg/kg wet	48.5	271	240	75-125			QM-07
Nickel	60.0	D	20.0	mg/kg wet	48.5	12.1	99	75-125			
Selenium	21.3	D	20.0	mg/kg wet	48.5	18.2 U	44	75-125			QM-07
Silver	4.77	JD	10.0	mg/kg wet	4.85	1.10 U	98	75-125			
Thallium	5.04	JD	20.0	mg/kg wet	4.85	0.740 U	104	75-125			
Zinc	1100	D	100	mg/kg wet	48.5	830	563	75-125			QM-07, QM-11

Matrix Spike Dup (3J08019-MSD1) Prepared: 10/08/2013 14:42 Analyzed: 10/14/2013 11:20

Source: A305668-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	4.00	UD	10.0	mg/kg wet	4.81	4.00 U		75-125		20	QM-07
Arsenic	43.7	D	20.0	mg/kg wet	48.1	10.2 U	91	75-125	5	20	
Beryllium	3.57	JD	40.0	mg/kg wet	4.81	2.00 U	74	75-125	15	20	QM-07
Cadmium	5.98	JD	20.0	mg/kg wet	4.81	2.60 U	124	75-125	22	20	QM-11
Chromium	63.2	JD	100	mg/kg wet	48.1	15.8	99	75-125	18	20	
Copper	138	D	20.0	mg/kg wet	48.1	63.1	155	75-125	20	20	QM-07
Iron	28300	DE	100	mg/kg wet	96.2	36900	NR	75-125	32	20	E, QM-11, QM-17
Lead	431	D	100	mg/kg wet	48.1	448	NR	75-125	18	20	QM-07
Manganese	327	D	20.0	mg/kg wet	48.1	271	117	75-125	17	20	
Nickel	59.0	D	20.0	mg/kg wet	48.1	12.1	97	75-125	2	20	
Selenium	18.2	UD	20.0	mg/kg wet	48.1	18.2 U		75-125		20	QM-07
Silver	4.51	JD	10.0	mg/kg wet	4.81	1.10 U	94	75-125	6	20	
Thallium	4.62	JD	20.0	mg/kg wet	4.81	0.740 U	96	75-125	9	20	
Zinc	731	D	100	mg/kg wet	48.1	830	NR	75-125	41	20	QM-07, QM-11

Post Spike (3J08019-PS1) Prepared: 10/14/2013 09:00 Analyzed: 10/14/2013 11:24

Source: A305668-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	4.93		0.500	ug/L	4.90	0.0317	100	80-120			
Arsenic	50.9		1.00	ug/L	49.0	0.395	103	80-120			
Beryllium	5.29		2.00	ug/L	4.90	-0.0599	109	80-120			
Cadmium	5.03		1.00	ug/L	4.90	0.0585	101	80-120			
Chromium	49.7		5.00	ug/L	49.0	0.766	100	80-120			
Copper	51.9		1.00	ug/L	49.0	3.06	100	80-120			
Iron	1920	E	5.00	ug/L	98.0	1790	129	80-120			E, QM-08
Lead	71.0		5.00	ug/L	49.0	21.7	100	80-120			
Manganese	61.8		1.00	ug/L	49.0	13.2	99	80-120			

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QUALITY CONTROL DATA

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 3J08019 - EPA 3050B - Continued

Post Spike (3J08019-PS1) Continued Prepared: 10/14/2013 09:00 Analyzed: 10/14/2013 11:24

Source: A305668-01

Analyte	Result	Flag	PQL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nickel	48.0		1.00	ug/L	49.0	0.588	97	80-120			
Selenium	54.4		1.00	ug/L	49.0	-0.0339	111	80-120			
Silver	5.00		0.500	ug/L	4.90	-0.00755	102	80-120			
Thallium	4.92		1.00	ug/L	4.90	-0.0120	101	80-120			
Zinc	90.6		5.00	ug/L	49.0	40.3	103	80-120			

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FLAGS/NOTES AND DEFINITIONS

B	The analyte was detected in the associated method blank.
D	The sample was analyzed at dilution.
J	The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
U	The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
MRL	Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
J-04	Result estimated, calibration verification standard failed with high bias.
QL-02	The associated laboratory control sample exhibited high bias; since the result is ND, the impact on data quality is minimal.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-08	Post-digestion spike did not meet method requirements due to confirmed matrix effects (dilution test).
QM-11	Precision between duplicate matrix spikes of the same sample was outside acceptance limits.
QM-16	Matrix spike recovery could not be calculated due to high concentrations of analyte in source sample.
QM-17	Matrix spike recovery was outside acceptance limits due to high concentrations of analyte in source sample.
QS-03	Surrogate recovery outside acceptance limits
QV-01	The associated continuing calibration verification standard exhibited high bias; since the result is ND, the impact on data quality is minimal.
R-01	The Reporting Limit for this analyte has been raised to account for matrix interference.

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ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

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www.encolabs.com

Client Name: S&ME, Inc. (SM001)	Project Number: 1054-11-1019
Address: 3201 Spring Forest Road	Project Name/Desc: Spring Hope Dump
City/ST/Zip: Raleigh, NC 27616	PO # / Billing Info:
Tel: (919) 872-2660 Fax: (919) 876-3958	Reporting Contact: Gerald Paul
Sampler(s) Name, Affiliation (Print): Alex Culpepper (S&ME)	Billing Contact: Accounts Payable
Sampler(s) Signature: Alex Culpepper	Site Location / Time Zone: Spring Hope, NC (Eastern)

Requested Turnaround Times
Note: Rush requests subject to acceptance by the facility
✓ Standard
___ Expedited
Due __/__/__
Lab Workorder: C313029 ~~C312834~~

Requested Analyses / Preservation (See Codes) (Combine as necessary)

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Comp / Grab	Matrix (see codes)	Total # of Containers	8260B TCL SOM01.2	8260B TCL SOM01.2 8260B TICs	8260B TICs	Ammonia 350.1	Sample Comments
	SB-3(1-2)	10/4/13	0900	Grab	SO	5	X	X	X	X	
	SB-3(5-6)	↓	0905	↓	SO	5	X	X	X	X	
	SB-3(9-10)	↓	0907	↓	SO	5	X	X	X	X	
	SB-5(1-2)	10/4/13	1045	Grab	SO	5	X	X	X	X	
	SB-5(6-7)	↓	1047	↓	SO	5	X	X	X	X	
	SB-5(9-10)	↓	1050	↓	SO	5	X	X	X	X	
	SB-4 (1-2)	10/4/13	1130	Grab	SO	5	X	X	X	X	
	SB-2 (1-2)	10/4/13	1300	Grab	SO	5	X	X	X	X	
	Dup 2	10/4/13	0900	Grab	SO	5	X	X	X	X	
	Trip Blank	10/4/13	NA	NA	NA	2	X	X	X	X	

<-- Total # of Containers

Sample Kit Prepared By: CS	Date/Time: 10/2/13	Relinquished By: Alex Culpepper	Date/Time: 10/4/13 1500
Comments/Special Reporting Requirements:		Received By: [illegible]	Date/Time: 10/4/13 1830
		Relinquished By:	Date/Time:
		Received By:	Date/Time:
		Relinquished By:	Date/Time:
		Received By:	Date/Time:
		Cooler #'s & Temps on Receipt: 1.3°C	Condition Upon Receipt: X Acceptable ___ Unacceptable

Matrix: GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water WW-Wastewater A-Air O-Other (detail in comments)

Preservation: I-Ice H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist