November 8, 2013

Mr. Bruce Parris
Western Unit Regional Supervisor
Inactive Hazardous Sites Branch, NCDENR
610 East Center Avenue
Mooresville, NC 28115
704-663-1699

RE: ***Soil and Groundwater Assessment Report***
Former Singer Furniture Plant
904 Virginia Street, Lenoir, North Carolina
NCD000604322

Dear Mr. Parris:

For your files, URS Corporation - North Carolina on behalf of Google Inc. (parent of Tapaha Dynamics, LLC that owns the subject property) ("Google") is submitting the enclosed *Soil and Groundwater Assessment Report* for the former Singer Furniture Plant located at 904 Virginia Street, Lenoir, North Carolina (the "Site"). Google (through its subsidiary Tapaha Dynamics) purchased the Site several years ago from a third party but has not conducted any operations at the Site, nor caused any releases at the Site. Google has also limited access to the site, as appropriate. There is a large RCRA file associated with Singer's prior operations at the site and Google recently conducted this additional soil and groundwater investigation to further evaluate the conditions at the Site. The investigation indicated that there are no significant environmental issues at the Site.

There is a land use restriction associated with the Site due to Singer's past operations and Google conducted its investigation in accordance with the land use restriction. I have copied Bud McCarty with the Hazardous Waste Section to apprise him of these additional results as Google has worked with him regarding keeping this Site secure and in compliance with the land use restriction.

Please contact me at 919-461-1290 if you have any questions regarding this submittal. We anticipate contacting NCDENR in the future to discuss this site further.

Sincerely,

URS Corporation – North Carolina

A. Brett Berra, PE, RSM
Senior Project Manager

cc: Bud McCarty, NCDENR, Hazardous Waste Section
Mr. Mario Kuhar, Google

Enclosure

URS Corporation – North Carolina
1600 Perimeter Park Drive, Suite 400
Morrisville, NC 27560
Tel: 919-461-1100
Fax: 919-46-1415

SOIL AND GROUNDWATER ASSESSMENT REPORT

LNR PARCEL 25
904 VIRGINIA STREET
LENOIR, CATAWBA COUNTY, NC

STATEMENT OF WORK: NO. 30

REPORT DATE – NOVEMBER 8, 2013

Prepared for:

Google Inc (parent company of Tapaha Dynamics, LLC).
1600 Amphitheatre Parkway
Mountain View, California 94043

Prepared by:

URS Corporation – North Carolina
1600 Perimeter Park Drive, Suite 400
Morrisville, NC 27560
Tel. (919) 461-1100
Fax. (919) 461-1415
URS Project No. 31829188

Certification
I certify that, to the best of my knowledge, after thorough investigation, the information contained in or accompanied this certification is true, accurate, and complete.

Brandy Costner	Peter Thibodeau, PhD, PG
Report Author	Report Reviewer

TABLE OF CONTENTS

1.0 INTRODUCTION 1

1.1 Site Location 1
1.2 Scope of Work 1
1.3 Deviations from Original Scope of Work 2

2.0 SOIL AND GROUNDWATER ASSESSMENT 4

2.1 Geology/Hydrogeology 4
2.2 Soil Assessment 4
2.2.1 Area of Concern 1: Flammable Liquid Drum Storage/Satellite Storage Area 5
2.2.2 Area of Concern 2: Former Underground Storage Tanks 5
2.2.3 Area of Concern 3: Compressor Room 6
2.2.4 Area of Concern 4: Former Transformer Pad 6
2.2.5 Area of Concern 5: Former Fuel Underground Storage Tank 7
2.2.6 Area of Concern 6: Oil Pump House 7
2.2.7 Area of Concern 7: Boiler Room 7
2.2.8 Area of Concern 8: Wash Water Aboveground Storage Tank 8
2.2.9 Area of Concern 9: Hazardous Waste Incinerator 8
2.2.10 Area of Concern 12: Glue Aboveground Storage Tanks 8
2.2.11 Area of Concern 13: Former Glue Evaporation Pond 9
2.2.12 Background Soil Concentration Characterization: Chromium and Manganese 9
2.3 Groundwater Assessment 9
2.3.1 Area of Concern 2: Former Underground Storage Tanks 11
2.3.2 Area of Concern 5: Former Fuel Underground Storage Tanks 11
2.3.3 Area of Concern 8: Wash Water Aboveground Storage Tank 11
2.3.4 Area of Concern 9: Hazardous Waste Incinerator 11
2.3.5 Area of Concern 13: Former Glue Evaporation Pond 11
2.4 Investigative Derived Waste 12
2.5 Site Survey 12

3.0 QUALITY ASSURANCE/QUALITY CONTROL 13

3.1 Field Documentation 13
3.2 Sample Identification 13
3.3 Analytical Completeness 13

4.0 CONCLUSIONS AND RECOMMENDATIONS 14

TABLES

Table 1	Sampling Matrix for Site Investigation
Table 2	Summary of Soil Results, Compared to IHSB PSRGs – Former Singer Plant AOC 1: Flammable Liquid Drum Storage/Satellite Storage Area
Table 3	Summary of Soil Results, Compared to NC Maximum Soil Concentration Levels- Former Singer Plant AOC 2: Former USTs
Table 4	Summary of Soil Results, Compared to NC Maximum Soil Concentration Levels- Former Singer Plant AOC 3: Compressor Room
Table 5	Summary of Soil Results, Compared to IHSB PSRGs - Former Singer Plant AOC 4: Former Transformer Pad
Table 6	Summary of Soil Results, Compared to NC Maximum Soil Concentration Levels- Former Singer Plant AOC 5: Former Fuel Oil UST
Table 7	Summary of Soil Results, Compared to NC Maximum Soil Concentration Levels- Former Singer Plant AOC 6: Oil Pump House
Table 8	Summary of Soil Results, Compared to NC Maximum Soil Concentration Levels- Former Singer Plant AOC 7: Boiler Room
Table 9	Summary of Soil Results, Compared to NC Maximum Soil Concentration Levels- Former Singer Plant AOC 8: Wash Water AST
Table 10	Summary of Soil Results, Compared to IHSB PSRGs - Former Singer Plant AOC 9: Hazardous Waste Incinerator
Table 11	Summary of Soil Results, Compared to NC Maximum Soil Concentration Levels- Former Singer Plant AOC 12: Glue ASTs
Table 12	Summary of Soil Results, Compared to NC Maximum Soil Concentration Levels- Former Singer Plant AOC 13: Former Glue Evaporation Pond
Table 13	Summary of Soil Results, Compared to IHSB PSRGs – Former Singer Plant- Background Samples
Table 14	Monitoring Well Construction Details, Former Singer Plant- Parcel 25
Table 15	Groundwater Quality and Elevation Data, Former Singer Plant- Parcel 25
Table 16	Summary of Groundwater Results, Compared to NC 2L Groundwater Quality Standards, Former Singer Plant- AOC 2: Former USTs
Table 17	Summary of Groundwater Results, Compared to NC 2L Groundwater Quality Standards, Former Singer Plant- AOC 5: Former Fuel Oil UST

TABLES (Continued)

Table 18 Summary of Groundwater Results, Compared to NC 2L Groundwater Quality Standards, Former Singer Plant- AOC 8: Wash Water AST

Table 19 Summary of Groundwater Results, Compared to NC 2L Groundwater Quality Standards, Former Singer Plant- AOC 9: Hazardous Waste Incinerator

Table 20 Summary of Groundwater Results, Compared to NC 2L Groundwater Quality Standards, Former Singer Plant- AOC 13: Former Glue Evaporation Pond

FIGURES

Figure 1 Aerial Map

Figure 2 Site Map

Figure 3 Soil Concentration Map compared to IHSB PSRGs

Figure 4 Soil Concentration Map compared to UST MSCCs

Figure 5 Groundwater Elevation Map

Figure 6 Groundwater Concentration Map

APPENDICES

Appendix A Soil Boring and Monitoring Well Logs

Appendix B Field Documentation

Appendix C Laboratory Reports and Chains of Custody

Appendix D State Well Construction Forms

Appendix E Site Survey Map

1.0 INTRODUCTION

1.1 Site Location

The subject site for this investigation is located at 914 Virginia Street SW, Lenoir, North Carolina (the Site), shown on Figure 1. The Site is within the city limits of Lenoir in a commercial/industrial area. It is bordered by Virginia Street to the south and east, Fairview Road and private residential properties to the west, and City of Lenoir and Lower Creek to the north.

The Site historically operated as the Former Singer Furniture Plant and is currently a vacant lot. Google (through its subsidiary Tapaha Dynamics, LLC) purchased the Site several years ago from a third party but has not conducted any operations at the Site, nor caused any releases at the Site. There is a large RCRA file associated with Singer's operations at the site and Google recently conducted this additional soil and groundwater investigation to further evaluate the conditions at the Site. There is a land use restriction associated with the Site due to Singer's past operations and the investigation was conducted in accordance with the land use restriction. Prior to mobilization to the Site, Site buildings were demolished, however building foundations remain in place. The Site is situated on approximately 56.6 acres of land.

1.2 Scope of Work

A Site-based soil and groundwater assessment investigation was conducted to further characterize and evaluate conditions at eleven (11) identified Areas of Concern (AOCs) (the original SOW identified 13 AOCs, but two of the AOCs were determined to be offsite, as explained in Section 1.3 below). The AOCs originated from Singer's historic activities at the site and were identified from a review of historical NCDENR regulatory documents provided by Google. The AOCs are identified on Figure 2. URS performed work in accordance with the Google's request to further evaluate the soil and groundwater at the Former Singer Furniture Plant (the Site).

The identified AOCs include:

1. Former Singer Furniture Plant Flammable Liquid Drum Storage/Satellite Storage Area
2. Three Former Singer Furniture Plant Underground Storage Tanks (USTs)
3. Former Singer Furniture Plant Compressor Room
4. Former Singer Furniture Plant Transformer Pad
5. Former Singer Furniture Plant Fuel Oil UST
6. Former Singer Furniture Plant Oil Pump House
7. Former Singer Furniture Plant Boiler Room
8. Former Singer Furniture Plant Wash Water Aboveground Storage Tank (AST)
9. Former Singer Furniture Plant Hazardous Waste Incinerator (Closed in 1994)

10. Former Singer Furniture Plant Drum Storage Area [not located at the Site]
11. Former City of Lenoir Municipal Landfill [not located at the Site]
12. Two Former Singer Furniture Plant Glue Storage ASTs
13. Former Singer Furniture Plant Glue Evaporation Pond

The Scope of Work (SOW) included completion of 52 soil borings and 5 monitoring wells at the 13 AOCs listed above. Soil borings were advanced using Direct Push Technology (DPT) up to 15 feet (ft) below ground surface (bgs), the top of the water table or top of bedrock, whichever was first encountered. Soil samples were collected in 4 ft intervals and soils were logged and screened using an organic vapor analysis (OVA) device. Monitoring wells were installed as Type II shallow monitoring wells, well construction details, lithology and OVA measurements were recorded in the field. Surface water samples were to be collected along an unnamed creek that runs across the eastern portion of the Site. However, due to site conditions the surface water samples were not collected as detailed in Section 1.3.

For soil sample evaluations, North Carolina Department of Environmental and Natural Resources (NC DENR) Division of Waste Management's UST regulations were used to assess exceedances of measured concentrations above Maximum Soil Concentration Cleanup goals for AOCs pertaining to USTs or former UST locations. For the other AOCs, measured soil concentrations were compared against NC DENR's Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals. Groundwater samples were evaluated and compared against North Carolina 2L Groundwater Quality Standards.

1.3 Deviations from Original Scope of Work

Based upon new information provided by Google, two of the originally identified AOCs were not located on the Site and therefore were not evaluated as part of this investigation. These two AOCs include the Drum Storage Area (AOC 10) and the Former City of Lenoir Municipal Landfill (AOC 11).

Site conditions encountered during the field investigation necessitated some changes in the approved SOW described above. The following additional changes were thus implemented during the field investigation:

- AOC 1. A monitoring well proposed in this area was not installed due to encountering bedrock at five (5) ft bgs and shallow groundwater was not encountered.
- AOC 2. During the pre-drilling utility location efforts at this AOC, an anomaly was identified with the ground penetrating radar (GPR) that indicated the possibility of a UST north of the known former UST location. To address this potential concern, four additional borings (UNK UST 2-1 through UNK UST 2-4) were advanced around the location to characterize conditions near the identified anomaly.

- AOC 5. During the utility location efforts at this AOC, there was an anomaly identified with the GPR that indicated the possibility of a UST immediately southwest of the known former UST location. Two additional borings (UNK UST-1 and UNK UST-2) were advanced to the south and east to assess the conditions in the area of this anomaly.
- Surface water sampling activities were not completed as originally anticipated due to the unnamed tributary that runs along the eastern portion of the Site being fully culverted and inaccessible for sample collection on the Former Singer Furniture Plant property.

2.0 SOIL AND GROUNDWATER ASSESSMENT

Field activities commenced on July 1, 2013, and ended on July 12, 2013. This section describes investigative activities and results for each AOC. A private utility locate company, Taylor Wiseman and Taylor (TWT), was subcontracted to locate utilities on the property and to utilize GPR to locate USTs and/or steel product piping on the property.

2.1 Geology/Hydrogeology

The Site is located in the Piedmont physiographic province that is characterized by moderately level interstream areas separated by broad valleys. Bedrock in the Lenoir, North Carolina area is mapped within the Inner Piedmont Region of the Piedmont. According to the *Geologic Map of North Carolina* (North Carolina Geological Survey, 1985), the bedrock consists of metamorphic rock consisting of gneiss, schist and biotite gneiss. These rock types are associated with the Inner Piedmont Region including the Brushy Mountain Range.

Competent bedrock in the Piedmont province in North Carolina is typically overlain by variable thicknesses of saprolite and soil, collectively referred to as "overburden." Groundwater in the Piedmont province occurs in the overburden under unconfined (i.e., water table) conditions, and in the underlying bedrock under both unconfined and confined conditions. Groundwater in the overburden occurs within pore spaces of the unconsolidated medium, including relict bedrock structures (i.e., fractures and foliations). Due to the typical fine-grained nature of saprolite, the formation normally possesses a relatively low permeability and is not generally used for groundwater production. Bedrock has been encountered across the Site from 1 foot bgs to greater than 25 ft bgs. All Site monitoring wells are completed within the saprolite overburden that consist mostly of sandy silts.

2.2 Soil Assessment

A total of 52 soil borings were advanced among 11 AOCs distributed across the Site (Figure 2). Soil borings were advanced by Geologic Exploration of Statesville, North Carolina (GEX) utilizing a DPT Geoprobe rig in July 2013.

Soil samples were collected continuously using a hand auger or disposable acetate liners and screened in the field for any visual or olfactory indications of impacts. A calibrated Mini Rae Plus photoionization detector (PID) was used to screen for organic vapors prior to sample collection. Depth intervals for soil sample collection were determined based on PID readings and visual/olfactory observations. Sampling and boring equipment that was in contact with Site media was decontaminated prior to, between boring and sampling locations, and at the completion of work to minimize the potential for cross-contamination of samples. Sample locations are provided on Figure 2. Screening results are provided in Appendix B. Boring logs are provided in Appendix A.

Soil samples were collected in laboratory supplied glassware and were placed on ice in an insulated cooler for delivery to the Con-Test Analytical Laboratory in East Longmeadow, MA (Con-Test). The range of laboratory analysis for the soil samples is summarized for each of the AOCs in Table 1. The laboratory analytical reports are included in Appendix C.

Soil borings were properly abandoned in July 2013 using a grout slurry and the surface was returned to its natural cover to the extent practicable. The following sections detail soil borings collected at each AOC.

2.2.1 Area of Concern 1: Former Singer Furniture Plant Flammable Liquid Drum Storage/Satellite Storage Area

Eight borings (FS-1 through FS-8) were advanced and sampled in AOC 1 (Figure 2). Boring depths ranged from 1 to 5 ft bgs in this area, at which bedrock was encountered (Appendix A). No visual or olfactory observations were noted during advancement of borings in AOC 1.

Soil samples collected for AOC 1 were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), formaldehyde, metals, and mercury (Table 1). A duplicate sample (Dup-2) for quality assurance/quality control (QA/QC) was collected from FS-5.

Chromium and manganese were reported in excess of North Carolina Department of Environment and Natural Resources (NCDENR) Residential, Industrial and Protection of Groundwater Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals (IHSB PSRGs). Analytical results for FS-6 indicated soil concentrations of benzo(a)anthracene and benzo(a)pyrene were in excess of the Residential and Protection of Groundwater IHSB PRSGs. For FS-7, bis(2-ethylhexyl)phthalate was indicated as an exceedance of Protection of Groundwater ISHB PSRGs. Soil analytical results are summarized on Table 2 and exceedances are shown on Figure 3.

2.2.2 Area of Concern 2: Former Singer Furniture Plant Underground Storage Tanks

Five borings (NVM UST-1 through NVM UST-5) were advanced and sampled in AOC 2 (Figure 2). Borings were terminated at 15 ft bgs (Appendix A). The water table was not encountered during advancement of borings at AOC 2. Field personnel noted visual and olfactory observations in NVM UST-3 and NVM UST-4. During the utility locate at this AOC, there was an anomaly identified with the GPR that indicated the possibility of a UST north of the known former UST location. A total of 4 borings (UNK UST 2-1 through UNK UST 2-4) were advanced around the subsurface anomaly to assess the possibility of an unknown UST in this area. Boring logs are included as Appendix A.

Soil samples collected for AOC 2 and the additional soil samples associated with the subsurface anomaly were analyzed for VOCs, SVOCs, volatile aliphatic and aromatic hydrocarbons (VPH), and extractable aliphatic and aromatic hydrocarbons (EPH) (Table 1).

The only recorded exceedance was indicated in NVM UST-2, where results indicated benzo(a)pyrene in exceedance of the NCDENR UST Section Soil to Water Maximum Soil Contaminant Concentration (MSCC) and the Residential Soil Cleanup Level (Figure 4). Laboratory analysis of the soil samples associated with the subsurface anomaly did not report exceedances of action levels. Soil analytical results are summarized in Table 3.

2.2.3 Area of Concern 3: Former Singer Furniture Plant Compressor Room

Two borings (CR-1 and CR-2) were advanced and sampled for AOC 3 (Figure 2). Depths of borings for AOC 3 ranged from 3 to 6 ft bgs, at which depth bedrock was encountered (Appendix A). No visual or olfactory observations were noted for borings in these locations. Soil samples collected for AOC 3 were analyzed for VOCs, SVOCs, VPH, EPH, and metals chromium and lead (Table 1).

Chromium was reported in excess of the Soil to Water MSCC in both borings at AOC 3 (Figure 4). Soil concentrations in CR-1 also exceeded Soil to Water MSCC for Aromatics C9-C22 (Figure 4). Soil analytical results for AOC 3 are summarized on Table 4.

2.2.4 Area of Concern 4: Former Singer Furniture Plant Transformer Pad

Three borings (TP-1 through TP-3) were advanced and sampled in AOC 4 (Figure 2). Boring depths ranged from 3 to 7 ft bgs, at which depth bedrock was encountered (Appendix A). Due to the demolition of the main plant building and transformer pad, borings for this location were noted to contain gravel/asphalt throughout. A second borehole was advanced next to the original borings to obtain required sample volume and a composite soil sample was collected for each sample location.

Soil samples for AOC 4 were analyzed for polychlorinated biphenyls (PCBs). A duplicate sample (Dup-1) was collected from TP-1. Primary soil samples taken in AOC 4 did not exceed Residential, Industrial, or Protection of Groundwater IHSB PSRGs; however, the duplicate collected (Dup-1) exceeded the IHSB PSRGs (Figure 3). Soil analytical results are summarized on Table 5.

2.2.5 Area of Concern 5: Former Singer Furniture Plant Fuel Underground Storage Tank

Five borings (FUST-1 through FUST-5) were advanced and sampled in AOC 5 (Figure 2). Boring termination depths ranged from 5 to 15 ft bgs (Appendix A). Groundwater was encountered between 5 and 11 ft bgs. During the utility location efforts at this AOC, there was an anomaly identified with the GPR that indicated the possibility of a subsurface anomaly immediately southwest of the known former UST location. Two additional borings (UNK UST-1 and UNK UST-2) were advanced to the south and east to assess the conditions in the area of the subsurface anomaly.

Soil samples for AOC 5 were analyzed for VOCs, SVOCs, VPH, and EPH (Table 1). There were no recorded exceedances in the samples collected in this AOC with one exception (Table 6). For UNK UST-2, soil analysis results indicated 1-Methylnaphthalene in exceedance of the Soil to Water MSCC (Figure 4).

2.2.6 Area of Concern 6: Former Singer Furniture Plant Oil Pump House

One boring (OPH-1) was advanced and sampled in AOC 6 (Figure 2). The boring was advanced to 10 ft bgs, at which depth water was encountered (Appendix A). Field personnel noted a visual impacts and odors from 7.5 to 8.5 ft bgs, therefore the interval was selected for sampling. The soil sample for OPH-1 was analyzed for VOCs, SVOCs, VPH, EPH, and metals chromium and lead.

For OPH-1, exceedances were indicated for both Soil to Water MSCC and Residential Clean up Levels for four constituents: 1-Methylnapthalene, aromatics C9-22, and aliphatics C9-C18 (Table 7 and Figure 4). The following constituents were indicated as exceedances only for Soil to Water MSCC: benzene, p-Isopropyltoluene, naphthalene, tetrachloroethylene, trichloroethylene, 2-Methylnapthalene, and chromium (Table 7 and Figure 4).

2.2.7 Area of Concern 7: Former Singer Furniture Plant Boiler Room

Two borings (BR-1 and BR-2) were advanced and sampled for AOC 7 (Figure 2). Depths of borings for this AOC ranged from 3 to 6 ft bgs, at which depth bedrock was encountered (Appendix A). No visual or olfactory observations were noted for borings in these locations.

Soil samples for AOC 7 were analyzed for VOCs, SVOCs, VPH, EPH, and metals chromium and lead (Table 1). Chromium was reported in excess of the Soil to Water MSCC in both borings for AOC 7 (Table 8 and Figure 4).

2.2.8 Area of Concern 8: Former Singer Furniture Plant Wash Water Aboveground Storage Tank

Five borings (WWA-1 through WWA-5) were advanced and sampled for AOC 8 (Figure 2). Borings in this area were advanced to 15 ft bgs and did not encounter groundwater (Appendix A). No visual or olfactory observations made during advancement of the borings in this area.

Soil samples collected for AOC 8 were analyzed for VOCs, SVOCs, VPH, and EPH. WWA-2 was also analyzed for metals and mercury to assess the potential that AOC 10 impacted the Site (Table 1). For the WWA-2 sample, chromium was reported in excess of the Soil to Water MSCC (Table 9 and Figure 3). WWA-4 reported aromatics C9-C22 in excess of the Soil to Water MSCC (Table 9 and Figure 4).

2.2.9 Area of Concern 9: Former Singer Furniture Plant Hazardous Waste Incinerator

Five borings (HWI-1 through HWI-5) were advanced and sampled in AOC 9 (Figure 2). Borings in this area were advanced to 15 ft bgs and groundwater was not encountered (Appendix A). A slight odor was noted in HWI-2 and HWI-4 and no visual impacts were observed. Soil samples collected for AOC 9 were analyzed for VOCs, SVOCs, formaldehyde, metals, and mercury (Table 1). HWI-3 was also analyzed for sulfate/nitrate, and ammonia to assess the potential that AOC 11 impacted the Site (Table 1). A duplicate sample (Dup-4) was collected from HWI-3.

Laboratory results for samples collected from HWI-1 through HWI-5 indicated manganese in excess of the Protection of Groundwater IHSB PSRGs, and HWI-4 reported manganese in excess of both Residential and Protection of Groundwater IHSB PSRGs (Table 10 and Figure 3). For soil samples collected from HWI-2 and HWI-5, results indicated chromium in excess of both Residential and Protection of Groundwater IHSB PSRGs (Table 10 and Figure 3). HWI-1, HWI-3, and HWI-4 reported chromium in excess of Industrial, Residential, and Protection of Groundwater IHSB PSRGs (Table 10 and Figure 3).

2.2.10 Area of Concern 12: Former Singer Furniture Plant Glue Aboveground Storage Tanks

Two borings (GAST-1 and GAST-2) were advanced and sampled in AOC 12 (Figure 2). Each boring was advanced to 15 ft bgs and groundwater was encountered at approximately 11 ft bgs (Appendix A).

Each boring in AOC 12 was analyzed for VOCs, SVOCs, VPH, and EPH (Table 1). A duplicate sample (Dup-3) was collected at GAST-2. No constituents of concern (COCs) in AOC 12 were reported in excess of any IHSB PSRGs (Table 11).

2.2.11 Area of Concern 13: Former Singer Furniture Plant Glue Evaporation Pond

Five borings were advanced and sampled in AOC 13 (Figure 2). Boring depths ranged from 1.5 to 15 ft bgs; groundwater was encountered at approximately 12 ft in borings that were advanced to 15 ft bgs (Appendix A). Bedrock was encountered at 1.5 ft bgs in one boring. No visual or olfactory observations made during advancement of borings in this area.

Each boring in AOC 13 was analyzed for VOCs, SVOCs, and formaldehyde. No COCs were reported in excess of IHSB PSRGs (Table 12).

2.2.12 Background Soil Concentration Characterization: Chromium and Manganese

Review of the soil concentration data for samples collected across the Site indicated consistent and similar results for chromium and manganese. Given the similarity of results and the possibility of innately higher concentrations for these metals, given the geologic setting, a further review of background concentrations for chromium and manganese was conducted. Three additional soil samples (BG-1, BG-2, and BG-3) were collected at the Site on August 23, 2013. The three samples were collected at areas outside of the identified AOCs in locations unlikely to have been affected by historical operations (Figure 2). The samples were analyzed for chromium and manganese, to evaluate more site-based background concentrations for these constituents.

The concentrations for manganese and chromium exceeded IHSB PSRGs in each of the background soil samples (Figure 13). Given these concentrations in the background samples, representative background concentrations were computed as 2x the mean of those concentration data, presumed to be representative of actual background conditions. For chromium, this is 35 mg/kg and for manganese this is 1,327 mg/kg.

For manganese, all reported exceedances from the AOC samples were below the calculated 1,327 mg/kg background value. Manganese in the AOC samples ranged from 200 to 840 mg/kg.

For chromium, many of the reported exceedances from the AOC samples were below the calculated 35 mg/kg background value. While there are some results that remain above the background value, those values may be considered as outliers from the mean and not representative of soil impacts. Possible future investigation of chromium and manganese soil concentrations is described below in Section 4.0.

2.3 <u>Groundwater Assessment</u>

Permanent Type II monitoring wells MW-1 through MW-5 were constructed in compliance with NCDENR regulations. Monitoring wells were installed in the vicinities of AOC 2, 5, 8, 9 and 13. MW-1, MW-4, and MW-5 were installed with a Geoprobe 6620 DT, and MW-2 and MW-3 were installed with a B-58 truck mount rig using 4 ¼-inch inner diameter hollow stem augers

advanced to a completion depth of up to 25 ft bgs. All monitoring wells were constructed of schedule 40, 2-inch diameter polyvinyl chloride (PVC) casing and screen. A 10-foot long section of 0.010-inch machine-slotted well screen was placed at the bottom of each monitoring well. The annular space between the well screen and the borehole was packed with a No. 2 fine filter sand from the termination depth to approximately two feet above the screened interval. A minimum 1-foot thick bentonite seal was placed above the sand pack with the remaining annular space grouted to the surface with a portland cement/bentonite slurry. All monitoring wells were completed above grade with a locking steel protective casing, locking cap, and well identification tag. All monitoring wells were subsequently developed until free and clear of suspended sediment. Monitoring well construction details for all existing and newly installed monitoring wells are summarized on Table 14. Monitoring well construction logs are included in Appendix A. Field notes and related documentation are included in Appendix B. Laboratory reports are included in Appendix C. NCDENR well completion forms are included in Appendix D.

Groundwater gauging and sampling activities were conducted at the Site on July 10-11, 2013. Depths to groundwater were measured at all Site monitoring wells using an electronic oil/water interface meter prior to initiating the groundwater sampling event. Depth to groundwater and groundwater elevation data for the sampling event is provided in Table 15. The results of those measurements and an interpretation of the potentiometric surfaces are indicated on Figure 5.

In accordance with NCDENR groundwater sampling protocols, monitoring wells were purged of three volumes of groundwater or until dry. If a monitoring well was purged dry it was allowed adequate time to recover before collecting a sample. Monitoring wells were purged and sampled using new bottom-loading disposable polyethylene bailers and nylon twine. Site personnel wore new nitrile gloves, changed between each well, for sample collection.

Groundwater pH, temperature, specific conductance, and dissolved oxygen were measured using a calibrated water quality meter subsequent to sample collection. Turbidity was measured using a MicroTPI portable turbidity meter. The oil/water interface meter, water quality meter, and the turbidity meter were cleaned in accordance with appropriate decontamination guidelines prior to use in each well. A summary of field measurements for the sampling event are provided in Table 15.

Groundwater samples were collected for laboratory analysis from Site monitoring wells on July 10-11, 2013. Each groundwater sample was transferred to pre-labeled, laboratory-prepared containers, promptly placed in an iced cooler containing a trip blank, and shipped under chain-of-custody via overnight courier to Con-Test. Specific sample analyte list for each AOC is provided on Table 1. The laboratory analytical reports are included in Appendix C.

2.3.1 Area of Concern 2: Former Singer Furniture Plant Underground Storage Tanks

One monitoring well (MW-5) was installed at AOC 2, to a depth of 23 ft bgs. One groundwater sample (MW-5) was collected from MW-5, which was analyzed for VPH, EPH, VOCs, SVOCs, and metals chromium and lead (Table 1). No COCs were reported above the NC 15A NCAC 2L.0200 Groundwater Quality Standards (NC 2Ls) (Table 16).

2.3.2 Area of Concern 5: Former Singer Furniture Plant Fuel Underground Storage Tanks

One monitoring well (MW-1) was installed at AOC 5, to a depth of 12 ft bgs (Figure 2). Field personnel observed visual impacts on augers when they were being removed from borehole for well install.

One groundwater sample (MW-1) was collected from MW-1. A duplicate sample (Dup-1) was collected from MW-1 for QA/QC purposes. The groundwater samples were analyzed for VPH, EPH, VOCs, SVOCs, and metals chromium and lead (Table 1). Aromatics C9-C22 and aliphatics C9-C18 (EPH/VPH) were reported above NC 2L standards for the groundwater sample collected at this AOC. Groundwater results are summarized on Table 17 and Figure 6.

2.3.3 Area of Concern 8: Former Singer Furniture Plant Wash Water Aboveground Storage Tank

One monitoring well (MW-3) was installed at AOC 8, to a depth of 24 ft bgs (Figure 2). One groundwater sample (MW-3) was collected from MW-3, and was analyzed for VPH, EPH, VOCs, SVOCs, and metals chromium and lead. No COCs were reported above NC 2L standards (Table 18).

2.3.4 Area of Concern 9: Former Singer Furniture Plant Hazardous Waste Incinerator

One monitoring well (MW-2) was installed at AOC 9, to a depth of 25 ft bgs (Figure 2). One groundwater sample (MW-2) was collected from MW-2, and was analyzed for VOCs, SVOCs, formaldehyde, metals and mercury (Table 1). Manganese was the only COC reported above NC 2L standards (Table 19 and Figure 6).

2.3.5 Area of Concern 13: Former Singer Furniture Plant Glue Evaporation Pond

One monitoring well (MW-4) was installed at AOC 13, to a depth of 14 ft bgs (Figure 2). One groundwater sample (MW-4) was collected from MW-4, and was analyzed for VOCs and formaldehyde (Table 1). No COCs were reported above NC 2L standards (Table 20).

2.4 Investigative Derived Waste

Investigation derived waste includes soil cuttings, development water from monitoring well installation activities and purge water generated from the groundwater sampling event. Waste was containerized in 55 gallon steel drums and stored onsite. The drums were transported by A&D Environmental to their facility in Archdale, North Carolina for storage pending analytical results on July 11, 2013. A&D picked up a total of 11 drums (8-soil, 2-water, 1-PPE) for offsite disposal.

2.5 Site Survey

On July 11, 2013, TWT conducted a survey of the Site. Soil boring and monitoring well locations, building foot prints, utilities in the vicinity of drilling activities, fence lines, property boundaries, and the unnamed stream were surveyed in by a North Carolina licensed surveyor. These locations are reflected in the figures presented in this report. The site survey map is provided in Appendix E.

3.0 QUALITY ASSURANCE/QUALITY CONTROL

3.1 Field Documentation

While operating in the field, URS prepared and maintained appropriate documentation of the field work performed, as reflected in the field book, boring logs, calibration sheets and Chains of Custody related to this work. These sheets were used to record field data collection activities and/or observations made. Boring logs are included as Appendix A. Field data sheets/notes are included as Appendix B. Chains of custody and analytical reports are included in Appendix C.

3.2 Sample Identification

Each sample collected was assigned a unique sample identification name/number and placed in the appropriate laboratory supplied sample containers. Each sample container had a sample label affixed to the outside with the date, time of sample collection, Site name, and type of sample. In addition, the labels contained the sample identification number and analysis required.

3.3 Analytical Completeness

URS Corporation validated analytical results from the July and August 2013 sampling events at the Site. The data review was modeled after the *USEPA Contract Laboratory Program (CLP) National Functional Guideline (NFG) for Superfund Organic Methods Data Review* (EPA, June 2008) and *USEPA CLP NFG Inorganic Superfund Data Review* (USEPA, January 2010). Qualitative and quantitative limitations associated with the analytical results were determined based on the results of specific quality control (QC) criteria. Accuracy was determined from the review of spike recoveries. Precision was based on the evaluation of laboratory and field duplicate results. Representativeness was evaluated from the review of holding times and blank data. Sample results have been qualified based on the results of the data review process. Data were determined to be valid and usable for their intended purpose. A copy of the data validation reports is available upon request.

4.0 CONCLUSIONS

Based on historical Site information and the analytical results from the soil and groundwater assessment completed as part of this investigation, URS concludes the following:

- Residential MSCC soil exceedances were reported in some samples for VOCs.
- Residential PSRG soil exceedances were reported in some samples for SVOCs.
- Industrial PSRG soil exceedances were reported in a duplicate sample for AOC 4.
- NC DENR 2L groundwater exceedances were reported for aliphatics C9-C18 and aromatics C9-C22.
- In response to several exceedances in chromium and manganese across the Site, background samples were collected in areas where the historical record indicated former Site activities have not occurred. In comparison to the background data, it is likely that elevated chromium and manganese concentrations are not a result of former activities but naturally occurring levels in the area.
- Google, through its subsidiary Tapaha Dynamcis, LLC, purchased the Site several years ago from a third party but has not conducted any operations at the Site, nor caused any releases at the Site.
- There is a land use restriction associated with the Site due to Singer's past operations and Google conducted its investigation in accordance with the land use restriction. Google has limited access to the site, as appropriate.
- The investigation indicated that there are no significant environmental issues at the Site.

TABLES

Table 1.
Soil and Groundwater Sampling Matrix: Sample Sets and Methods
Zeus - Lenoir, NC

		AOC 1		AOC 2		AOCs 3, 6, 7		AOC 4		AOC 5		AOC 8		AOC 9		AOC 12		AOC 13		Site-wide
		HW Storage / Satellite Storage		Naphtha, Varsol, Methanol USTs		Compressor, Boiler, and Oil Pump Rooms		Transformer pad		Former Fuel Oil UST		Wash Water AST		HWI		Glue ASTs		Glue Evap Pond		Background
Parameter	**Method**	S	G	S	G	S	G	S	G	S	G	S	G	S	G	S	G	S	G	S[3]
IHSB Guidance																				
TCL VOC	SW-846 8260B	8												5	1			5	1	
TCL VOC 10 largest non-target peaks (TIC)	SW-846 8260B	8												5	1			5	1	
TCL SVOC	SW-846 82670D	8												5	1			5		
TCL SVOC 10 largest non-target peaks (TIC)	SW-846 82670D	8												5	1			5		
Formaldehyde	SW-846 8315A	8												5	1			5	1	
PCBs	SW-846 8082A							3												
Metals (1, 2)	SW-846 6010C	8												5	1					3
Mercury	SW-846 7470A/7471A	8												5	1					
Ammonia	EPA 350.1/SM 4500C																			
Sulfate	ASTM D516																			
Nitrate	SM4500 NO3 F																			
Dissolved Methane	RSK-175																			
UST Section Guidance																				
UST Section Guidance, Appendix B VOC	SW-846 8260B			5		5				5		5				2				
UST Section Guidance, Appendix B SVOC	SW-846 8270D			5		5				5		5				2				
Volatile Aliphatic and Aromatic Hydrocarbons	MADEP VPH			5	1	5				5	1	5	1			2				
Extractable Aliphatic and Aromatic Hydrocarbons	MADEP EPH			5	1	5				5	1	5	1			2				
UST Section Guidance, Appendix B VOC	EPA 602				1						1		1							
UST Section Guidance, Appendix B SVOC	EPA 625				1						1		1							
UST Section Guidance, Appendix B SVOC 10 largest non-target peaks (TIC)	EPA 625				1						1		1							
Chromium and Lead	SW-846 6010C				1	5					1		1							

Notes:

(1) Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, nickel, selenium, silver, thallium, and zinc

(2) Groundwater samples to be prepared by SM 3030C within 72 hours of collection for the metals analysis.

(3) Samples analyzed for chromium and manganese, only.

G - Groundwater

PCBs - Polychlorinated biphenyls

S - Soil

SVOC - Semivolatile organic compounds

SW - Surface water

TB - Trip blank

TCL - Target Compound List

TIC - Tentatively identified compound

UST - Underground Storage Tank

VOC - Volatile organic compounds

Table 2
Summary of Soil Results
Compared to IHSB PSRGs
Former Singer Plant - AOC 1: Flammable Liquid Drum Storage/Satellite Storage Area
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Preliminary Industrial Health- Based Soil Remediation Goal**	**Preliminary Residential Health- Based Soil Remediation Goal**	**Protection of Groundwater PSRG**	**FS-1**	**FS-2**	**FS-3**	**FS-4**
Lab ID:					**13G0267-02**	**13G0267-03**	**13G0267-4**	**13G0266-01**
Sample Depth (ft bgs):					**0.25-1.5**	**0.5-1.0**	**0.25-1.0**	**0.25-3.0**
Matrix:					**Soil**	**Soil**	**Soil**	**Soil**
Sampled Date:					**8-Jul-13**	**8-Jul-13**	**8-Jul-13**	**8-Jul-13**
VOC (SW-846 8260B)								
Methylene Chloride	NA	620	56	0.023	ND (0.0083)	0.0088 J	0.017 J	ND (0.0083)
SVOC (SW-846 8270D)								
Benzo(a)anthracene	NA	2.1	0.15	0.18	ND (0.092)	ND (0.095)	ND (0.092)	ND (0.092)
Benzo(a)pyrene	NA	0.21	0.015	0.059	ND (0.072)	ND (0.074)	ND (0.072)	ND (0.072)
Bis(2-ethylhexyl)phthalate	NA	120	35	7.2	ND (0.091)	4.3	ND (0.091)	0.20 J
Chrysene	NA	210	15	18	ND (0.13)	ND (0.14)	ND (0.13)	ND (0.13)
Phenanthrene	NA	NE	NE	68	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)
Pyrene	NA	3400	340	220	ND (0.14)	ND (0.15)	ND (0.14)	ND (0.14)
Metals (SW-846 6010C/ 7471B)								
Cadmium	NA	160	14	3.0	0.69 U	0.83 U	0.69 U	0.59
Chromium	35	5.6[3]	0.29[3]	3.8[3]	20	22 J	**47**	21
Copper	NA	8200	620	700	25	30	39	25
Lead	NA	800	400	270	15	8.7	14	9.8
Manganese	1327	4600	360	65	840	590	520	630
Mercury	NA	3.1	2.0	1.0	0.020 J	0.013 U	0.016 J	0.0084 J
Nickel	NA	4000	300	130	7.4	8.7 J	13	7.3
Zinc	NA	62000	4600	1200	47	55	44	46
Formaldehyde (SW-846 8315)								
Formaldehyde	NA	24000	2400	2.4	ND (0.67)	ND (0.67)	ND (0.66)	ND (0.67)
Percent Solids (SM 2540G)								
% Solids	NA	NA	NA	NA	83.2	81.3	83.5	83.0

Table 2
Summary of Soil Results
Compared to IHSB PSRGs
Former Singer Plant - AOC 1: Flammable Liquid Drum Storage/Satellite Storage Area
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Preliminary Industrial Health- Based Soil Remediation Goal**	**Preliminary Residential Health- Based Soil Remediation Goal**	**Protection of Groundwater PSRG**	**FS-5**	**Dup-2[2]**	**FS-6**	**FS-7**
Lab ID:					**13G0267-5**	**13G0267-09**	**13G0267-6**	**13G0267-7**
Sample Depth (ft bgs):					**0.25-5.0**	**0.25-5.0**	**0.25-4.0**	**0.25-1.5**
Matrix:					**Soil**	**Soil**	**Soil**	**Soil**
Sampled Date:					**8-Jul-13**	**8-Jul-13**	**8-Jul-13**	**8-Jul-13**
VOC (SW-846 8260B)								
Methylene Chloride	NA	620	56	0.023	ND (0.0082)	ND (0.0090)	ND (0.0073)	ND (0.0079)
SVOC (SW-846 8270D)								
Benzo(a)anthracene	NA	2.1	0.15	0.18	ND (0.093)	ND (0.093)	**0.22**	ND (0.095)
Benzo(a)pyrene	NA	0.21	0.015	0.059	ND (0.073)	ND (0.072)	**0.18 J**	ND (0.074)
Bis(2-ethylhexyl)phthalate	NA	120	35	7.2	1.7 J	ND UJ (0.091)	0.14 J	**18**
Chrysene	NA	210	15	18	ND (0.13)	ND (0.13)	0.21	ND (0.14)
Phenanthrene	NA	NE	NE	68	ND (0.11)	ND (0.11)	0.18 J	ND (0.11)
Pyrene	NA	3400	340	220	ND (0.14)	ND (0.14)	0.31	ND (0.15)
Metals (SW-846 6010C/ 7471B)								
Cadmium	NA	160	14	3.0	0.68 U	0.63 U	0.68 U	0.93 U
Chromium	35	5.6[3]	0.29[3]	3.8[3]	21	15	**45**	21
Copper	NA	8200	620	700	24	27	37	120
Lead	NA	800	400	270	15	14	14	34
Manganese	1327	4600	360	65	630	770	610	480
Mercury	NA	3.1	2.0	1.0	0.0085 U	0.0072 U	0.019 J	0.022 J
Nickel	NA	4000	300	130	7.9	6	18	9.3
Zinc	NA	62000	4600	1200	48	49	46	110
Formaldehyde (SW-846 8315)								
Formaldehyde	NA	24000	2400	2.4	ND (0.69)	ND (0.68)	ND (0.65)	0.87 J
Percent Solids (SM 2540G)								
% Solids	NA	NA	NA	NA	82.7	82.8	84	80.9

Table 2
Summary of Soil Results
Compared to IHSB PSRGs
Former Singer Plant - AOC 1: Flammable Liquid Drum Storage/Satellite Storage Area
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Preliminary Industrial Health- Based Soil Remediation Goal**	**Preliminary Residential Health- Based Soil Remediation Goal**	**Protection of Groundwater PSRG**	**FS-8**
Lab ID:					**13G0267-8**
Sample Depth (ft bgs):					**0.50-2.0**
Matrix:					**Soil**
Sampled Date:					**8-Jul-13**
VOC (SW-846 8260B)					
Methylene Chloride	NA	620	56	0.023	ND (0.0073)
SVOC (SW-846 8270D)					
Benzo(a)anthracene	NA	2.1	0.15	0.18	ND (0.090)
Benzo(a)pyrene	NA	0.21	0.015	0.059	ND (0.070)
Bis(2-ethylhexyl)phthalate	NA	120	35	7.2	0.44
Chrysene	NA	210	15	18	ND (0.13)
Phenanthrene	NA	NE	NE	68	ND (0.11)
Pyrene	NA	3400	340	220	ND (0.14)
Metals (SW-846 6010C/ 7471B)					
Cadmium	NA	160	14	3.0	0.68 U
Chromium	35	5.6[3]	0.29[3]	3.8[3]	32
Copper	NA	8200	620	700	47
Lead	NA	800	400	270	24
Manganese	1327	4600	360	65	440
Mercury	NA	3.1	2.0	1.0	0.012 U
Nickel	NA	4000	300	130	13
Zinc	NA	62000	4600	1200	57
Formaldehyde (SW-846 8315)					
Formaldehyde	NA	24000	2400	2.4	ND (0.66)
Percent Solids (SM 2540G)					
% Solids	NA	NA	NA	NA	85.3

Table 2
Summary of Soil Results
Compared to IHSB PSRGs
Former Singer Plant - AOC 1: Flammable Liquid Drum Storage/Satellite Storage Area
Lenoir, NC

Notes:

[1] Background concentrations were developed from 2 times the mean of the sample concentrations collected August 2013.

[2] DUP-2 is a field duplicate of FS-5

[3] PSRG not established for total chromium. Result compared to hexavalent chromium PSRGs.

% - Percent

ft bgs - Feet below ground surface

J - Estimated value

NA - Not applicable

NC DENR IHSB PSRG - North Carolina Department of Environment and Natural Resources Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals, as of February 2013

ND - Not detected above the limit shown in parentheses

NE - Not established

SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF

SVOC - Semivolatile Organic Compounds

SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm

U - Not present above the associated level; blank contamination exists

UJ - Not detected and the limit is estimated

VOC - Volatile Organic Compounds

This table presents results for detected analytes only. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

NC DENR IHSB Preliminary Soil Remediation Goals, as of February 2013. A shaded cell with a bold border indicates that the sample concentration is greater than the PSRG.

Table 3
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 2: Former USTs
Lenoir, NC

Sample ID:	**Soil-to-Water MSCC**	**Residential Soil Cleanup Level**	**Industrial / Commercial Soil Cleanup Level**	**NVM UST-1**	**NVM UST-2**	**NVM UST-3**	**NVM UST-4**	**NVM UST-5**	**UNK-UST-2-1**	**UNK-UST-2-2**	**UNK-UST-2-3**	**UNK-UST-2-4**
Lab ID:				**13G0486-01**	**13G0486-02**	**13G0486-03**	**13G0486-04**	**13G0486-05**	**13G0399-01**	**13G0399-02**	**13G0399-03**	**13G0399-04**
Sample Depth (ft bgs):				**4.0-8.0**	**0-4.0**	**8.0-12.0**	**8.0-12.0**	**4.0-7.0**	**1.5-4.0**	**2.0-4.0**	**2.0-4.0**	**0.5-4.0**
Matrix:				**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Sampled Date:				**11-Jul-13**	**11-Jul-13**	**11-Jul-13**	**11-Jul-13**	**11-Jul-13**	**10-Jul-13**	**10-Jul-13**	**10-Jul-13**	**10-Jul-13**
VOC (SW-846 8260B)												
Acetone	24	14,000	360,000	0.087 J	ND (0.027)	ND (0.023)	ND (0.027)	ND (0.026)	ND (0.028)	ND (0.025)	0.052 J	ND (0.024)
Methylene Chloride	0.02	85	763	ND (0.0083)	ND (0.0081)	ND (0.0071)	ND (0.0082)	0.012 J	ND (0.0085)	ND (0.0076)	ND (0.0075)	ND (0.0072)
SVOC (SW-846 8270D)												
Benzo(a)anthracene	0.35	0.88	8	ND (0.086)	0.30	ND (0.086)	ND (0.089)	ND (0.092)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Benzo(a)pyrene	0.096	0.088	0.78	ND (0.067)	**0.30**	ND (0.067)	ND (0.069)	ND (0.072)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Benzo(b)fluoranthene	1.2	0.88	8	ND (0.17)	0.41	ND (0.17)	ND (0.17)	ND (0.18)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Benzo(g,h,i)perylene	6,400	469	12,264	ND (0.15)	0.16 J	ND (0.15)	ND (0.16)	ND (0.16)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Bis(2-Ethylhexyl)phthalate	6.6	46	410	ND (0.085)	0.11 J	0.11 J	ND (0.088)	ND (0.091)	ND (0.088)	ND (0.089)	ND (0.090)	2.1
Chrysene	39	88	780	ND (0.12)	0.30	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Fluoranthene	290	620	16,400	ND (0.17)	0.21	ND (0.17)	ND (0.18)	ND (0.18)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Indeno(1,2,3-cd)pyrene	3.4	0.88	8	ND (0.12)	0.20	ND (0.12)	ND (0.13)	ND (0.13)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Pyrene	270	469	12,264	ND (0.13)	0.20	ND (0.13)	ND (0.14)	ND (0.14)	ND (0.12)	ND (0.12)	ND (0.12)	ND (0.12)
Petroleum Hydrocarbons (MADEP VPH and EPH)												
Aromatics, C9-C22[1]	31	469	12264	ND (26)	ND (25)	ND (24)	ND (24)	ND (27)	ND (26)	ND (25)	ND (26)	14
Percent Solids (SM 2540G)												
% Solids	NA	NA	NA	88.7	85.2	89.2	85.7	82.6	85.9	84.7	84.3	80.3

Notes:
[1] Based on the sum of C9-C10 and C11-C22 Aromatics petroleum hydrocarbon results
% - Percent
EPH - Extractable petroleum hydrocarbons
ft bgs - Feet below ground surface
J - Estimated value
MADEP - Massachusetts Department of Environmental Protection
NA - Not applicable
ND - Not detected above the limit shown in parentheses
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SVOC - Semivolatile Organic Compounds
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
VOC - Volatile Organic Compounds
VPH - Volatile petroleum hydrocarbons

This table presents results for detected analytes only. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

Maximum Soil Contaminant Concentration (MSCC) Levels, effective April 16, 2012, obtained from the NCDENR, Division of Waste Management, UST Section.
A bold border indicates the concentration is greater than the Action Level.

Table 4
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 3: Compressor Room
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Soil-to-Water MSCC**	**Residential Soil Cleanup Level**	**Industrial / Commercial Soil Cleanup Level**	**CR-1**	**CR-2**
Lab ID:					**13G0268-02**	**13G0268-03**
Sample Depth (ft bgs):					**0.5-3.5**	**0.5-3.0**
Matrix:					**Soil**	**Soil**
Sampled Date:					**8-Jul-13**	**8-Jul-13**
VOC (SW-846 8260B)						
Acetone	NA	24	14000	360000	0.085 J	ND (0.023)
Benzene	NA	0.0056	18	164	ND (0.00077)	ND (0.00069)
n-Butylbenzene	NA	4.3	626	16350	ND (0.00077)	ND (0.00069)
sec-Butylbenzene	NA	3.3	626	16350	ND (0.0011)	ND (0.00098)
tert-Butylbenzene	NA	3.4	626	16350	ND (0.00098)	ND (0.00089)
1,2-Dichlorobenzene	NA	0.23	1400	36000	ND (0.00077)	ND (0.00069)
1,4-Dichlorobenzene	NA	0.099	110	1000	ND (0.00088)	ND (0.00079)
cis-1,2-Dichloroethylene	NA	0.35	156	4000	ND (0.00088)	ND (0.00079)
Ethylbenzene	NA	4.9	1560	40000	ND (0.00088)	ND (0.00079)
Cumene	NA	1.7	1564	40880	ND (0.00077)	ND (0.00069)
p-Isopropyltoluene	NA	0.12	100	4000	ND (0.00088)	ND (0.00079)
Naphthalene	NA	0.16	313	8176	ND (0.00077)	ND (0.00069)
n-Propylbenzene	NA	1.7	626	16350	ND (0.00077)	ND (0.00069)
Tetrachloroethylene	NA	0.0074	1.1	10	ND (0.0014)	ND (0.0013)
Toluene	NA	4.3	1200	32000	ND (0.00088)	ND (0.00079)
Trichloroethylene	NA	0.019	4.6	120	ND (0.00098)	ND (0.00089)
1,2,4-Trimethylbenzene	NA	8.5	782	20440	0.0019 J	ND (0.00079)
1,3,5-Trimethylbenzene	NA	8.3	782	20440	ND (0.00066)	ND (0.00059)
Xylene, m&p	NA	4.6	3129	81760	ND (0.0019)	ND (0.0017)
Xylene, o-	NA	4.6	3129	81760	ND (0.00077)	ND (0.00069)
SVOC (SW-846 8270D)						
Bis(2-ethylhexyl)phthalate	NA	6.6	46	410	ND (0.86)	ND (0.087)
Chrysene	NA	39	88	780	ND (1.2)	ND (0.13)
Fluorene	NA	47	620	16400	ND (1.5)	ND (0.15)
1-Methylnaphthalene	NA	0.004	20	100	ND (0.73)	ND (0.074)
2-Methylnaphthalene	NA	3.6	63	1635	ND (1.0)	ND (0.10)
Naphthalene	NA	0.16	313	8176	ND (0.85)	ND (0.085)
Phenanthrene	NA	56	469	12264	ND (1.0)	ND (0.10)
Pyrene	NA	270	469	12264	ND (1.3)	ND (0.13)
Petroleum Hydrocarbons (MADEP VPH and EPH)						
Aliphatics, C19-C36	NA	#	31000	810000	4700	17
Aliphatics, C9-C18	NA	540	1500	40000	39	ND (11)
Aromatics, C9-C22[2]	NA	31	469	12264	**300**	ND (11)
Metals (SW-846 6010C)						
Chromium	35	5.4	47	1226	11	**42**
Lead	NA	270	400	400	5.6	5.3
Percent Solids (SM 2540G)						
% Solids	NA	NA	NA	NA	88.2	87.2

Table 4
Summary of Soil Results
Compared to North Carolina UST MSCCs
Former Singer Plant - AOC 3: Compressor Room
Lenoir, NC

Notes:

[1] Background concentrations were developed from 2 times the mean of the sample concentrations collected August 2013.

[2] Based on the sum of C9-C10 and C11-C22 Aromatics petroleum hydrocarbon results

- Health based level > 100%
% - Percent
EPH - Extractable petroleum hydrocarbons
ft bgs - Feet below ground surface
J - Estimated value
MADEP - Massachusetts Department of Environmental Protection
NA - Not applicable
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
VOC - Volatile Organic Compounds
VPH - Volatile petroleum hydrocarbons

This table presents results for detected analytes only. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

Maximum Soil Contaminant Concentration (MSCC) Levels, effective April 16, 2012, obtained from the NCDENR, Division of Waste Management, UST Section. A bold border indicates the concentration is greater than the Action Level.

Table 5
Summary of Soil Results
Compared to IHSB PSRGs
Former Singer Plant - AOC 4: Former Transformer Pad
Lenoir, NC

Sample ID:	Preliminary Residential Health Based Soil Remediation Goal	Preliminary Industrial Health- Based Soil Remediation Goal	Protection of Groundwater PSRG	TP-1	TP-2	TP-3	Dup-1[1]
Lab ID:				13G0116-01	13G0116-02	13G0116-03	13G0116-04
Sample Depth (ft bgs):				1.5-3.0	1.0-4.0	1.0-3.0	1.5-3.0
Matrix:				Soil	Soil	Soil	Soil
Sampled Date:				02-Jul-13	02-Jul-13	02-Jul-13	02-Jul-13
PCBs (SW-846 8082A)							
Aroclor-1254	NE	NE	NE	ND UJ (0.052)	ND (0.052)	ND (0.052)	1.2 J
Total PCBs	1.0	1.0	0.14	ND UJ (0.6)	ND (0.598)	ND (0.597)	**1.2 J**
Percent Solids (SM 2540G)							
% Solids	NA	NA	NA	82.1	82.5	82.7	84.3

Notes:

[1] DUP-1 is a field duplicate of TP-1

% - Percent

ft bgs - Feet below ground surface

J - Estimated value

NA - Not applicable

NC DENR IHSB PSRG - North Carolina Department of Environment and Natural Resources Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals, as of February 2013

ND - Not detected above the limit shown in parentheses

NE - Not established

PCB - Polychlorinated Biphenyl

SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF

SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm

UJ - Not detected and the limit is estimated

This table presents results for detected analytes only. Sample results have been qualified by URS based on the results of the data review process, which is modeled after the *USEPA Contract Laboratory Program National Functional Guidelines (NFG) for Superfund Organic Methods Data Review* (EPA, June 2008). Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

NC DENR IHSB Preliminary Soil Remediation Goals, as of February 2013. A shaded cell with a bold border indicates that the sample concentration is greater than the PSRG.

Table 6
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 5: Former Fuel UST
Lenoir, NC

Sample ID:	**Soil-to-Water MSCC**	**Residential Soil Cleanup Level**	**Industrial / Commercial Soil Cleanup Level**	**FUST-1**	**FUST-2**	**FUST-3**	**FUST-4**	**FUST-5**	**UNK-UST-1**	**UNK-UST-2**
Lab ID:				**13G0349-02**	**13G0349-03**	**13G0349-04**	**13G0349-05**	**13G0349-06**	**13G0349-07**	**13G0349-08**
Sample Depth (ft bgs):				**8.0-12.0**	**8.0-10.0**	**4.0-6.0**	**0.5-5.0**	**0.5-4.0**	**8.0-9.5**	**3.0-4.0**
Matrix:				**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Sampled Date:				**09-Jul-13**	**09-Jul-13**	**09-Jul-13**	**09-Jul-13**	**09-Jul-13**	**09-Jul-13**	**09-Jul-13**
VOC (SW-846 8260B)										
Acetone	24	14000	360000	ND (0.031)	ND (0.030)	ND (0.028)	ND (0.026)	ND (0.028)	0.070 J	0.10
n-Butylbenzene	4.3	626	16350	ND (0.00093)	ND (0.00091)	ND (0.00083)	ND (0.00079)	ND (0.00084)	ND (0.00074)	0.0017 J
sec-Butylbenzene	3.3	626	16350	ND (0.0013)	ND (0.0013)	ND (0.0012)	ND (0.0011)	ND (0.0012)	ND (0.0011)	0.0024
Naphthalene	0.16	313	8176	ND (0.00093)	ND (0.00091)	ND (0.00083)	ND (0.00079)	ND (0.00084)	ND (0.00074)	0.023
1,2,4-Trimethylbenzene	8.5	782	20440	ND (0.0011)	ND (0.0010)	ND (0.00095)	ND (0.00090)	ND (0.00096)	ND (0.00085)	0.0017 J
SVOC (SW-846 8270D)										
1-Methylnaphthalene	0.004	20	100	ND (0.078)	ND (0.075)	ND (0.080)	ND (0.080)	ND (0.080)	ND (0.077)	**0.095 J**
2-Methylnaphthalene	3.6	63	1635	ND (0.11)	ND (0.10)	ND (0.11)	ND (0.11)	ND (0.11)	ND (0.11)	0.11 J
Percent Solids (SM 2540G)										
% Solids	NA	NA	NA	82.8	84.7	81.7	81.1	80.8	83.5	81.9

Notes:
% - Percent
ft bgs - Feet below ground surface
J - Estimated value
NA - Not applicable
ND - Not detected above the limit shown in parentheses
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SVOC - Semi-Volatile Organic Compounds
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
VOC - Volatile Organic Compounds

This table presents results for detected analytes only. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

Maximum Soil Contaminant Concentration (MSCC) Levels, effective April 16, 2012, obtained from the NCDENR, Division of Waste Management, UST Section. A bold border indicates the concentration is greater than the Action Level.

Table 7
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 6: Oil Pump House
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Soil-to-Water MSCC**	**Residential Soil Cleanup Level**	**Industrial / Commercial Soil Cleanup Level**	**OPH-1**
Lab ID:					**13G0398-01**
Sample Depth (ft bgs):					**7.5-8.5**
Matrix:					**Soil**
Sampled Date:					**10-Jul-13**
VOC (SW-846 8260B)					
Acetone	NA	24	14000	360000	0.41 J
Benzene	NA	0.0056	18	164	**0.027 J**
n-Butylbenzene	NA	4.3	626	16350	2.2
sec-Butylbenzene	NA	3.3	626	16350	0.87
tert-Butylbenzene	NA	3.4	626	16350	0.072 J
1,2-Dichlorobenzene	NA	0.23	1400	36000	0.082 J
1,4-Dichlorobenzene	NA	0.099	110	1000	0.032 J
cis-1,2-Dichloroethylene	NA	0.35	156	4000	0.020 J
Ethylbenzene	NA	4.9	1560	40000	0.13 J
Cumene	NA	1.7	1564	40880	0.27
p-Isopropyltoluene	NA	0.12	100	4000	**0.81**
Naphthalene	NA	0.16	313	8176	**12**
n-Propylbenzene	NA	1.7	626	16350	0.48
Tetrachloroethylene	NA	0.0074	1.1	10	**0.30**
Toluene	NA	4.3	1200	32000	0.099 J
Trichloroethylene	NA	0.019	4.6	120	**0.058 J**
1,2,4-Trimethylbenzene	NA	8.5	782	20440	3.8
1,3,5-Trimethylbenzene	NA	8.3	782	20440	1.7
Xylene, m&p	NA	4.6	3129	81760	0.54
Xylene, o-	NA	4.6	3129	81760	0.11 J
SVOC (SW-846 8270D)					
Bis(2-ethylhexyl)phthalate	NA	6.6	46	410	1.0 J
Chrysene	NA	39	88	780	0.65 J
Fluorene	NA	47	620	16400	5.1
1-Methylnaphthalene	NA	0.004	20	100	**25**
2-Methylnaphthalene	NA	3.6	63	1635	**38 J**
Naphthalene	NA	0.16	313	8176	**8.9**
Phenanthrene	NA	56	469	12264	12
Pyrene	NA	270	469	12264	1.6
Petroleum Hydrocarbons (MADEP VPH and EPH)					
Aliphatics, C19-C36	NA	#	31000	810000	1100
Aliphatics, C9-C18	NA	540	1500	40000	**2000**
Aromatics, C9-C22[2]	NA	31	469	12264	**1650**
Metals (SW-846 6010C)					
Chromium	35	5.4	47	1226	18
Lead	NA	270	400	400	2.4
Percent Solids (SM 2540G)					
% Solids	NA	NA	NA	NA	89.6

Table 7
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 6: Oil Pump House
Lenoir, NC

Notes:

[1] Background concentrations were developed from 2 times the mean of the sample concentrations collected August 2013.

[2] Based on the sum of C9-C10 and C11-C22 Aromatics petroleum hydrocarbon results

- Health based level > 100%
% - Percent
EPH - Extractable petroleum hydrocarbons
ft bgs - Feet below ground surface
J - Estimated value
MADEP - Massachusetts Department of Environmental Protection
NA - Not applicable
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
VOC - Volatile Organic Compounds
VPH - Volatile petroleum hydrocarbons

This table presents results for detected analytes only. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

Maximum Soil Contaminant Concentration (MSCC) Levels, effective April 16, 2012, obtained from the NCDENR, Division of Waste Management, UST Section. A bold border indicates the concentration is greater than the Action Level.

Table 8
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 7: Boiler Room
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Soil-to-Water MSCC**	**Residential Soil Cleanup Level**	**Industrial / Commercial Soil Cleanup Level**	**BR-1**	**BR-2**
Lab ID:					**13G0268-04**	**13G0268-05**
Sample Depth (ft bgs):					**0.5-3.0**	**0.5-4.0**
Matrix:					**Soil**	**Soil**
Sampled Date:					**8-Jul-13**	**8-Jul-13**
VOC (SW-846 8260B)						
Acetone	NA	24	14000	360000	ND (0.026)	ND (0.032)
Benzene	NA	0.0056	18	164	ND (0.00076)	ND (0.00094)
n-Butylbenzene	NA	4.3	626	16350	ND (0.00076)	ND (0.00094)
sec-Butylbenzene	NA	3.3	626	16350	ND (0.0011)	ND (0.0013)
tert-Butylbenzene	NA	3.4	626	16350	ND (0.00098)	ND (0.0012)
1,2-Dichlorobenzene	NA	0.23	1400	36000	ND (0.00076)	ND (0.00094)
1,4-Dichlorobenzene	NA	0.099	110	1000	ND (0.00087)	ND (0.0011)
cis-1,2-Dichloroethylene	NA	0.35	156	4000	ND (0.00087)	ND (0.0011)
Ethylbenzene	NA	4.9	1560	40000	ND (0.00087)	ND (0.0011)
Cumene	NA	1.7	1564	40880	ND (0.00076)	ND (0.00094)
p-Isopropyltoluene	NA	0.12	100	4000	ND (0.00087)	ND (0.0011)
Naphthalene	NA	0.16	313	8176	ND (0.00076)	ND (0.00094)
n-Propylbenzene	NA	1.7	626	16350	ND (0.00076)	ND (0.00094)
Tetrachloroethylene	NA	0.0074	1.1	10	ND (0.0014)	ND (0.0018)
Toluene	NA	4.3	1200	32000	ND (0.00087)	ND (0.0011)
Trichloroethylene	NA	0.019	4.6	120	ND (0.00098)	ND (0.0012)
1,2,4-Trimethylbenzene	NA	8.5	782	20440	ND (0.00087)	ND (0.0011)
1,3,5-Trimethylbenzene	NA	8.3	782	20440	ND (0.00066)	ND (0.00081)
Xylene, m&p	NA	4.6	3129	81760	ND (0.0019)	ND (0.0023)
Xylene, o-	NA	4.6	3129	81760	ND (0.00076)	ND (0.00094)
SVOC (SW-846 8270D)						
Bis(2-ethylhexyl)phthalate	NA	6.6	46	410	ND (0.079)	ND (0.090)
Chrysene	NA	39	88	780	ND (0.11)	ND (0.13)
Fluorene	NA	47	620	16400	ND (0.14)	ND (0.15)
1-Methylnaphthalene	NA	0.004	20	100	ND (0.068)	ND (0.077)
2-Methylnaphthalene	NA	3.6	63	1635	ND (0.094)	ND (0.11)
Naphthalene	NA	0.16	313	8176	ND (0.078)	ND (0.089)
Phenanthrene	NA	56	469	12264	ND (0.095)	ND (0.11)
Pyrene	NA	270	469	12264	ND (0.12)	ND (0.14)
Petroleum Hydrocarbons (MADEP VPH and EPH)						
Aliphatics, C19-C36	NA	#	31000	810000	ND (10)	ND (12)
Aliphatics, C9-C18	NA	540	1500	40000	ND (10)	ND (12)
Aromatics, C9-C22[2]	NA	31	469	12264	ND (10)	ND (12)
Metals (SW-846 6010C)						
Chromium	35	5.4	47	1226	29	14
Lead	NA	270	400	400	1.8 U	4.8
Percent Solids (SM 2540G)						
% Solids	NA	NA	NA	NA	96.2	84.1

Table 8
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 7: Boiler Room
Lenoir, NC

Notes:

[1] Background concentrations were developed from 2 times the mean of the sample concentrations collected August 2013.

[2] Based on the sum of C9-C10 and C11-C22 Aromatics petroleum hydrocarbon results

- Health based level > 100%
% - Percent
EPH - Extractable petroleum hydrocarbons
ft bgs - Feet below ground surface
J - Estimated value
MADEP - Massachusetts Department of Environmental Protection
NA - Not applicable
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
U - Not present above the associated level; blank contamination exists
VOC - Volatile Organic Compounds
VPH - Volatile petroleum hydrocarbons

This table presents results for detected analytes only. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

Maximum Soil Contaminant Concentration (MSCC) Levels, effective April 16, 2012, obtained from the NCDENR, Division of Waste Management, UST Section. A bold border indicates the concentration is greater than the Action Level.

Table 9
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 8: Wash Water AST
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Soil-to-Water MSCC**	**Residential Soil Cleanup Level**	**Industrial / Commercial Soil Cleanup Level**	**WWA-1**	**WWA-2**	**WWA-3**	**WWA-4**	**WWA-5**
Lab ID:					**13G0331-02**	**13G0997-01**	**13G0397-03**	**13G0397-04**	**13G0397-05**
Sample Depth (ft bgs):					**8.0-12.0**	**1.5-4.0**	**1.0-4.0**	**1.0-4.0**	**1.5-4.0**
Matrix:					**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Sampled Date:					**9-Jul-13**	**10-Jul-13**	**10-Jul-13**	**10-Jul-13**	**10-Jul-13**
VOC (SW-846 8260B)									
Acetone	NA	24	14000	360000	0.063 J	0.034 J	ND (0.030)	ND (0.027)	ND (0.028)
Naphthalene	NA	0.16	313	8176	ND (0.00090)	ND (0.00084)	ND (0.00090)	0.0058	ND (0.00083)
SVOC (SW-846 8270D)									
Bis(2-ethylhexyl)phthalate	NA	6.6	46	410	ND (0.086)	ND (0.088)	ND (0.091)	0.17 J	0.20 J
Petroleum Hydrocarbons (MADEP VPH and EPH)									
Aliphatics, C9-C12	NA	NE	NE	NE	ND (14)	ND (15)	ND (15)	21	ND (15)
Aliphatics, C9-C18	NA	NE	NE	NE	ND (11)	ND (12)	ND UJ (12)	110 J	ND UJ (12)
Aliphatics, C9-C18[2]	NA	540	1500	40000	ND (25)	ND (27)	ND UJ (27)	131 J	ND UJ (27)
Aliphatics, C19-C36	NA	#	31000	810000	13	ND (12)	ND (12)	42	ND (12)
Aromatics, C9-C22[3]	NA	31	469	12264	11	ND (27)	ND (27)	**41**	ND (27)
Metals (SW-846 6010C/7471B)									
Cadmium	NA	NE	NE	NE	NR	0.41	NR	NR	NR
Chromium	35	5.4	47	1226	NR	5.9	NR	NR	NR
Copper	NA	NE	NE	NE	NR	11	NR	NR	NR
Lead	NA	270	400	400	NR	5.7	NR	NR	NR
Manganese	1326	NE	NE	NE	NR	460	NR	NR	NR
Mercury	NA	NE	NE	NE	NR	0.0058	NR	NR	NR
Nickel	NA	NE	NE	NE	NR	3.4	NR	NR	NR
Zinc	NA	NE	NE	NE	NR	33	NR	NR	NR
Percent Solids (SM 2540G)									
% Solids	NA	NA	NA	NA	88.2	86.8/89.1	83.0	87.2	84.0

Notes:
[1] Background concentrations were developed from 2 times the mean of the sample concentrations collected August 2013.
[2] Sum of C9-C12 and C9-C18 Aliphatic hydrocarbon results
[3] Sum of C9-C10 and C11-22 Aromatics hydrocarbon results
- Health based level > 100%
% - Percent
EPH - Extractable petroleum hydrocarbons
ft bgs - Feet below ground surface
J - Estimated value
MADEP - Massachusetts Department of Environmental Protection
NA - Not applicable
ND - Not detected above the limit shown in parentheses
NE - Not established
NR -Not requested
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SVOC - Semi-Volatile Organic Compounds
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
UJ - Not detected and the limit is estimated.
VOC - Volatile Organic Compounds
VPH - Volatile petroleum hydrocarbons

This table presents results for detected analytes only in all soil samples collected at the AOC, Wash Water AST, in July 2013. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

Maximum Soil Contaminant Concentration (MSCC) Levels, effective April 16, 2012, obtained from the NCDENR, Division of Waste Management, UST Section. A bold border indicates the concentration is greater than the Action Level.

Table 10
Summary of Soil Results
Compared to IHSB PSRGs
Former Singer Plant - AOC 9: Hazardous Waste Incinerator
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Preliminary Industrial Health- Based Soil Remediation Goal**	**Preliminary Residential Health- Based Soil Remediation Goal**	**Protection of Groundwater PSRG**	**HWI-1**	**HWI-2**	**HWI-3**	**Dup-4[2]**
Lab ID:					**13G0347-01**	**13G0400-2**	**13G0400-3**	**13G040-06**
Sample Depth (ft bgs):					**4.0-8.0**	**1.0-4.0**	**0.75-4.0**	**0.75-4.0**
Matrix:					**Soil**	**Soil**	**Soil**	**Soil**
Sampled Date:					**9-Jul-13**	**10-Jul-13**	**10-Jul-13**	**10-Jul-13**
VOC (SW-846 8260B)								
Acetone	NA	100,000	12,000	24	ND (0.031)	ND (0.030)	0.067 J	0.045 J
SVOC (SW-846 8270D)								
Bis(2-Ethylhexyl)phthalate	NA	35	120	7.2	0.18 J	ND (0.084)	0.19 J	ND (0.090)
Formaldehyde (SW-846 8315)		24,000	2,400	2.4	ND (0.68)	0.83 J	ND (0.67)	0.75 J
Metals (SW-846 6010C/7471B)								
Cadmium	NA	160	14	3	0.50	0.46	0.68	0.55
Chromium	35	5.6[3]	0.29[3]	3.8[3]	10	3.6	12	11
Copper	NA	8,200	620	700	16	3.0	13	17
Lead	NA	800	400	270	5.2	5.4	8.4 J	4.7 J
Manganese	1327	4600	360	65	220	350	210	200
Mercury	NA	3.1	2	1	0.030	0.013 J	0.030	0.034
Nickel	NA	4,000	300	130	2.4	1.9	4.8	5.0
Zinc	NA	62,000	4,600	1,200	28	35	31	32
General Chemistry								
Ammonia as N (SM18 4500 NH3 C)	NA	NE	NE	NE	NA	NA	42	NA
Nitrate (as N) (SM 18-20 4500 NO3 F)	NA	100,000	26,000	NE	NA	NA	20 J	NA
% Solids (SM 2540G)	NA	NA	NA	NA	84.3	90.0	82.7	82.8

Table 10
Summary of Soil Results
Compared to IHSB PSRGs
Former Singer Plant - AOC 9: Hazardous Waste Incinerator
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Preliminary Industrial Health- Based Soil Remediation Goal**	**Preliminary Residential Health- Based Soil Remediation Goal**	**Protection of Groundwater PSRG**	**HWI-4**	**HWI-5**
Lab ID:					**13G0400-4**	**13G0400-5**
Sample Depth (ft bgs):					**0.5-4.0**	**4.0-8.0**
Matrix:					**Soil**	**Soil**
Sampled Date:					**10-Jul-13**	**10-Jul-13**
VOC (SW-846 8260B)						
Acetone	NA	100,000	12,000	24	0.038 J	ND (0.030)
SVOC (SW-846 8270D)						
Bis(2-Ethylhexyl)phthalate	NA	35	120	7.2	ND (0.089)	ND UJ (0.086)
Formaldehyde (SW-846 8315)		24,000	2,400	2.4	0.80 J	0.71 J
Metals (SW-846 6010C/7471B)						
Cadmium	NA	160	14	3	0.64	0.36
Chromium	35	5.6[3]	0.29[3]	3.8[3]	18	2.2
Copper	NA	8,200	620	700	26	5.9
Lead	NA	800	400	270	8.9	4.4
Manganese	1327	4600	360	65	480	310
Mercury	NA	3.1	2	1	ND (0.0019)	0.0037 J
Nickel	NA	4,000	300	130	8.8	1.7
Zinc	NA	62,000	4,600	1,200	54	27
General Chemistry						
Ammonia as N (SM18 4500 NH3 C)	NA	NE	NE	NE	NA	NA
Nitrate (as N) (SM 18-20 4500 NO3 F)	NA	100,000	26,000	NE	NA	NA
% Solids (SM 2540G)	NA	NA	NA	NA	84.7	87.3

Table 11
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 12: Glue ASTs
Lenoir, NC

Sample ID:	**Soil-to-Water MSCC**	**Residential Soil Cleanup Level**	**Industrial / Commercial Soil Cleanup Level**	**GAST-1**	**GAST-2**	**Dup-3[1]**
Lab ID:				**13G0334-02**	**13G0334-03**	**13G0334-01**
Sample Depth (ft bgs):				**8.0-11.0**	**8.0-12.0**	**8.0-12.0**
Matrix:				**Soil**	**Soil**	**Soil**
Sampled Date:				**9-Jul-13**	**9-Jul-13**	**9-Jul-13**
VOC (SW-846 8260B)						
Naphthalene	0.16	313	8176	0.0029 J	ND (0.00075)	ND (0.00075)
Toluene	4.3	1200	32000	ND (0.00064)	0.0011 J	ND (0.00086)
Xylene, o-	NE	NE	NE	ND (0.00056)	0.0018 J	ND (0.00075)
Xylenes (Total)	4.6	3129	81760	ND (0.00196)	0.0018 J	ND (0.00255)
Petroleum Hydrocarbons (MADEP EPH and VPH)						
Aliphatics, C19-C36	#	31000	810000	ND (12)	21	ND (12)
Percent Solids (SM 2540G)						
% Solids	NA	NA	NA	80.9	83.5	82.8

Notes:

[1] DUP-3 is a field duplicate of GAST-2

- Health based level > 100%
% - Percent
EPH - Extractable petroleum hydrocarbons
ft bgs - Feet below ground surface
J - Estimated value
MADEP - Massachusetts Department of Environmental Protection
NA - Not applicable
ND - Not detected above the limit shown in parentheses
NE - Not established
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
UJ - Not detected and the limit is estimated
VOC - Volatile Organic Compounds
VPH - Volatile petroleum hydrocarbons

This table presents results for detected analytes only. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

Maximum Soil Contaminant Concentration (MSCC) Levels, effective April 16, 2012, obtained from the NCDENR, Division of Waste Management, UST Section. A bold border indicates the concentration is greater than the Action Level.

Table 12
Summary of Soil Results
Compared to NC Maximum Soil Contaminant Concentration Levels
Former Singer Plant - AOC 13: Former Glue Evaporation Pond
Lenoir, NC

Sample ID:	**Background Concentrations[1]**	**Preliminary Industrial Health- Based Soil Remediation Goal**	**Preliminary Residential Health- Based Soil Remediation Goal**	**Protection of Groundwater PSRG**	**GEP-1**	**GEP-2**	**GEP-3**	**GEP-4**	**GEP-5**
Lab ID:					**13G0261-01**	**13G0261-02**	**13G0366-01**	**13G0366-02**	**13G0366-03**
Sample Depth (ft bgs):					**4.0-8.0**	**4.0-8.0**	**0.25-1.5**	**4.0-8.0**	**4.0-8.0**
Matrix:					**Soil**	**Soil**	**Soil**	**Soil**	**Soil**
Sampled Date:					**08-Jul-13**	**08-Jul-13**	**9-Jul-13**	**9-Jul-13**	**9-Jul-13**
SVOC (SW-846 8270D)									
Bis(2-ethylhexyl)phthalate	NA	35	120	7.2	NR	NR	0.22 J	ND (0.087)	ND (0.092)
Butyl benzyl phthalate	NA	910	260	150	NR	NR	0.32 J	ND (0.16)	ND (0.16)
Percent Solids (SM 2540G)									
% Solids	NA	NA	NA	NA	84.5	89.9	81.7	85.8	82.6

Notes:
[1] Background concentrations were developed from 2 times the mean of the sample concentrations collected August 2013.
% - Percent
ft bgs - Feet below ground surface
J - Estimated value
NA - Not applicable
ND - Not detected above the limit shown in parentheses
NE - Not established
NR - Not requested
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SVOC - Semi-Volatile Organic Compounds
SW-846 - Test Methods for
Evaluating Solid Waste,
Physical/Chemical Methods

detected analytes only. Except
percent solids, all results are

Maximum Soil Contaminant
Concentration (MSCC)
Levels, effective April 16

Table 13
Summary of Soil Results
Compared to IHSB PSRGs
Former Singer Plant - Background Samples
Lenoir, NC

Sample ID:	**Preliminary Industrial Health-Based Soil Remediation Goal**	**Preliminary Residential Health-Based Soil Remediation Goal**	**Protection of Groundwater PSRG**	**BG-1**	**BG-2**	**BG-3**
Lab ID:				**13H0959-01**	**13H0959-02**	**13H0959-03**
Sample Depth (ft bgs):				**TBD**	**TBD**	**TBD**
Matrix:				**Soil**	**Soil**	**Soil**
Sampled Date:				**23-Aug-13**	**23-Aug-13**	**23-Aug-13**
Metals (SW-846 6010C)						
Chromium	5.6[1]	0.29[1]	3.8[1]	**14**	**12**	**27**
Manganese	4600	360	65	**270**	**990**	**730**
Percent Solids (SM 2540G)						
% Solids	NA	NA	NA	87.3	74.4	71.5

Notes:
[1] PSRG not established for total chromium. Result compared to hexavalent chromium PSRGs.

% - Percent
ft bgs - Feet below ground surface
NA - Not applicable
NC DENR IHSB PSRG - North Carolina Department of Environment and Natural Resources Inactive Hazardous Sites Branch Preliminary Soil Remediation Goals, as of February 2013
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm

This table presents results for detected analytes only. Except percent solids, all results are reported in milligrams per kilogram (mg/Kg). All results are reported on a dry weight basis.

NC DENR IHSB Preliminary Soil Remediation Goals, as of February 2013. A shaded cell with a bold border indicates that the sample concentration is greater than the PSRG.

Table 14
Monitoring Well Construction Details
Former Singer Plant - Parcel 25
Lenoir, North Carolina

Well ID	Date Installed	Well Diameter (inches)	Screened Interval (feet bgs)	Total Depth (feet bgs)	Approximate Groundwater Depth Encountered in Boring (feet bgs)	Top of Surface Elevation (feet msl)	Top-of-Casing Elevation (feet msl)	Date Developed	Date Purged	Date Sampled
MW-1	07/02/13	2	4-12	12	8.0	1,094.9	1,092.3	07/10/13	07/10/13	07/10/13
MW-2	07/09/13	2	15-25	25	18.0	1,091.1	1,093.9	07/10/13	07/10/13	07/10/13
MW-3	07/09/13	2	14-24	24	17.5	1,091.3	1,094.2	07/10/13	07/10/13	07/10/13
MW-4	07/09/13	2	4-14	14	12.0	1,093.5	1,096.2	07/10/13	07/10/13	07/10/13
MW-5	07/11/13	2	13-23	23	17.0	1,091.0	1,093.5	07/11/13	07/11/13	07/11/13

Notes:
bgs = below ground surface
msl = above mean sea level

Table 15
Groundwater Quality and Elevation Data
Former Singer Plant-Parcel 25
Lenoir, North Carolina

Well ID	Top-of-Casing Elevation (feet msl)	Top of Surface Elevation (feet msl)	Date Sampled	Depth-to-Groundwater (feet btoc)	Total Depth of Well at Top of Casing (feet)	Groundwater Elevation (feet msl)	pH	Temperature (^{o}C)	Specific Conductance (mS/cm)	Dissolved Oxygen (mg/L)	Turbidity (ntu)
MW-1	1,094.9	1,092.3	07/10/13	7.98	14.63	1,086.92	7.00	22.11	0.273	3.82	22.5
MW-2	1,091.1	1,093.9	07/10/13	20.29	27.76	1,070.81	6.47	18.57	0.138	2.25	20.4
MW-3	1,091.3	1,094.2	07/10/13	20.54	26.89	1,070.76	6.67	18.74	0.498	2.25	55.2
MW-4	1,093.5	1,096.2	07/10/13	7.57	16.71	1,085.93	5.70	19.31	0.124	3.69	NM
MW-5	1,091.0	1,093.5	07/11/13	17.75	25.49	1,073.25	8.82	21.14	0.257	1.75	17.7

Notes:
msl = mean sea level
btoc = below top of casing
pH measured in standard units
^{o}C = degrees Celsius
mS/cm =milliSiemens per centimeter
nTu = nephelometric turbidity unit
NM = not measured
GW elevation measured on 07/10/13.

Table 16
Summary of Groundwater Results
Compared to NC 2L Groundwater Quality Standards
Former Singer Plant - AOC 2: Former USTs
Lenoir, NC

Sample ID:		**MW-5**
Lab ID:		**13G0493-01**
Matrix:		**Water**
Sampled Date:	**NC 2L**	**11-Jul-13**
VOC (EPA 602)		
Chlorobenzene	50	0.91 J
Metals (SW-846 6010C)		
Chromium	10	4.9 J
Lead	15	8.3 U
Petroleum Hydrocarbons (MADEP EPH and VPH)		
Aliphatics, C19-C36	10,000	290
Aliphatics, C5-C8	400	220
Aliphatics, C9-C18 [1]	700	120

Notes:
[1] Based on the sum of C9-C12 and C9-C18 Aliphatic petroleum hydrocarbon results

EPA - Environmental Protection Agency, Methods of Chemical Analysis of Water and Waste
EPH - Extractable petroleum hydrocarbon
J - Estimated value
MADEP - Massachusetts Department of Environmental Protection
NC 2L - NC 2L Groundwater Quality Standards
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
U - Not present above the associated level; blank contamination exists
VOC - Volatile organic compounds
VPH - Volatile petroleum hydrocarbon

This table presents results for detected analytes only. All results are reported in micrograms per Liter (µg/L).

NC Groundwater quality standards for the protection of the groundwater are specified in 15A NCAC 2L .0200. A shaded cell with a bold border indicates the concentration is greater than the standard.

Table 17
Summary of Groundwater Results
Compared to NC 2L Groundwater Quality Standards
Former Singer Plant - AOC 5: Former Fuel Oil UST
Lenoir, NC

Sample ID:		**MW-1**	**Dup-1[1]**
Lab ID:		**13G0401-02**	**13G0401-03**
Matrix:		**Water**	**Water**
Sampled Date:	**NC 2L**	**10-Jul-13**	**10-Jul-13**
VOC (EPA 602)			
Benzene	1	0.44 J	ND (0.040)
Chlorobenzene	50	0.44 J	ND (0.080)
Metals (SW-846 6010C)			
Chromium (Total)	10	7.4 J	7.7 J
Lead	15	5.5 J	7.9 J
Petroleum Hydrocarbons (MADEP EPH and VPH)			
Aliphatics, C9-C18[2]	700	340 J	**910 J**
Aliphatics, C19-C36	10,000	1,700 J	4,500 J
Aromatics, C9-C10	NE	110	110
Aromatics, C11-C22	NE	780 J	1,800 J
Aromatics, C9-C22[3]	200	**780 J**	**1,910 J**

Notes:
[1] Dup-1 is a field duplicate of MW-1
[2] Based on the sum of C9-C12 and C9-C18 aliphatic results
[3] Based on the sum of C9-C10 and C11-C22 aromatic results

EPA - Environmental Protection Agency, Methods of Chemical Analysis of Water and Waste
EPH - Extractable petroleum hydrocarbon
J - Estimated value
MADEP - Massachusetts Department of Environmental Protection
NC 2L - NC 2L Groundwater Quality Standards
ND - Not detected above the limit shown in parentheses
NE - Not established
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, http://www.epa.gov/epawaste/hazard/testmethods/index.htm
VOC - Volatile organic compounds
VPH - Volatile petroleum hydrocarbon

This table presents results for detected analytes only. All results are reported in microgram per Liter (µg/L).

NCAC 2L .0200. A shaded cell with a bold border indicates the concentration is greater than the standard.

Table 18
Summary of Groundwater Results
Compared to NC 2L Groundwater Quality Standards
Former Singer Plant - AOC 8: Wash Water AST
Lenoir, NC

Sample ID:		**MW-3**
Lab ID:		**13G0402-1**
Matrix:		**Water**
Sampled Date:	**NC 2L**	**10-Jul-13**
Metals (SW-846 6010C)		
Lead	15	4.3 J

Notes:
J - Estimated value
NC 2L - NC 2L Groundwater Quality Standards
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,
http://www.epa.gov/epawaste/hazard/testmethods/index.htm

This table presents results for detected analytes only. All results are reported in microgram per Liter (µg/L).

NC Groundwater quality standards for the protection of the groundwater are specified in 15A NCAC 2L .0200. A shaded cell with a bold border indicates the concentration is greater than the standard.

Table 19
Summary of Groundwater Results
Compared to NC 2L Groundwater Quality Standards
Former Singer Plant - AOC 9: Hazardous Waste Incinerator
Lenoir, NC

Sample ID:		**MW-2**
Lab ID:		**13G0404-02**
Matrix:		**Water**
Sampled Date:	**NC 2L**	**10-Jul-13**
VOC (SW-846 8260B)		
Acetone	6000	9.2 J
Chloromethane	3	0.82 J
Methyl ethyl ketone	4000	2.4 J
Metals (SW-846 6010C/7470A)		
Manganese	50	**3300**
Zinc	1000	13 J
General Chemistry		
Methane (SW-846 3810/RSK175)	NE	8100
Nitrate (SM 18-20 4500 NO3 F)	10,000	210
Sulfate (ASTM D516-90, 02)	250,000	13000

Notes:
ASTM - American Society for Testing and Materials Standards, http://www.astm.org
J - Estimated value
NC 2L - NC 2L Groundwater Quality Standards
NE - Not established
SM - Standard Methods for the Examination of Water and Wastewater, APHA-AWWA-WEF
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,
http://www.epa.gov/epawaste/hazard/testmethods/index.htm
VOC - Volatile Organic Compounds

This table presents results for detected analytes only. All results are reported in microgram per Liter (µg/L).

NC Groundwater quality standards for the protection of the groundwater are specified in 15A NCAC 2L .0200. A shaded cell with a bold border indicates the concentration is greater than the standard.

Table 20
Summary of Groundwater Results
Compared to NC 2L Groundwater Quality Standards
Former Singer Plant - AOC 13: Former Glue Evaporation Pond
Lenoir, NC

Sample ID:		**MW-4**
Lab ID:		**13G0403-01**
Matrix:		**Water**
Sampled Date:	**NC 2L**	**10-Jul-13**
VOC (SW-846 8260B)		
Chloromethane	3	1.2 J

Notes:
J - Estimated value
NC 2L - NC 2L Groundwater Quality Standards
SW-846 - Test Methods for Evaluating Solid Waste, Physical/Chemical Methods,
http://www.epa.gov/epawaste/hazard/testmethods/index.htm
VOC - Volatile Organic Compounds

This table presents results for detected analytes only. All results are reported in microgram per Liter (µg/L).

NC Groundwater quality standards for the protection of the groundwater are specified in 15A NCAC 2L .0200. A shaded cell with a bold border indicates the concentration is greater than the standard.

FIGURES

LINE LEGEND

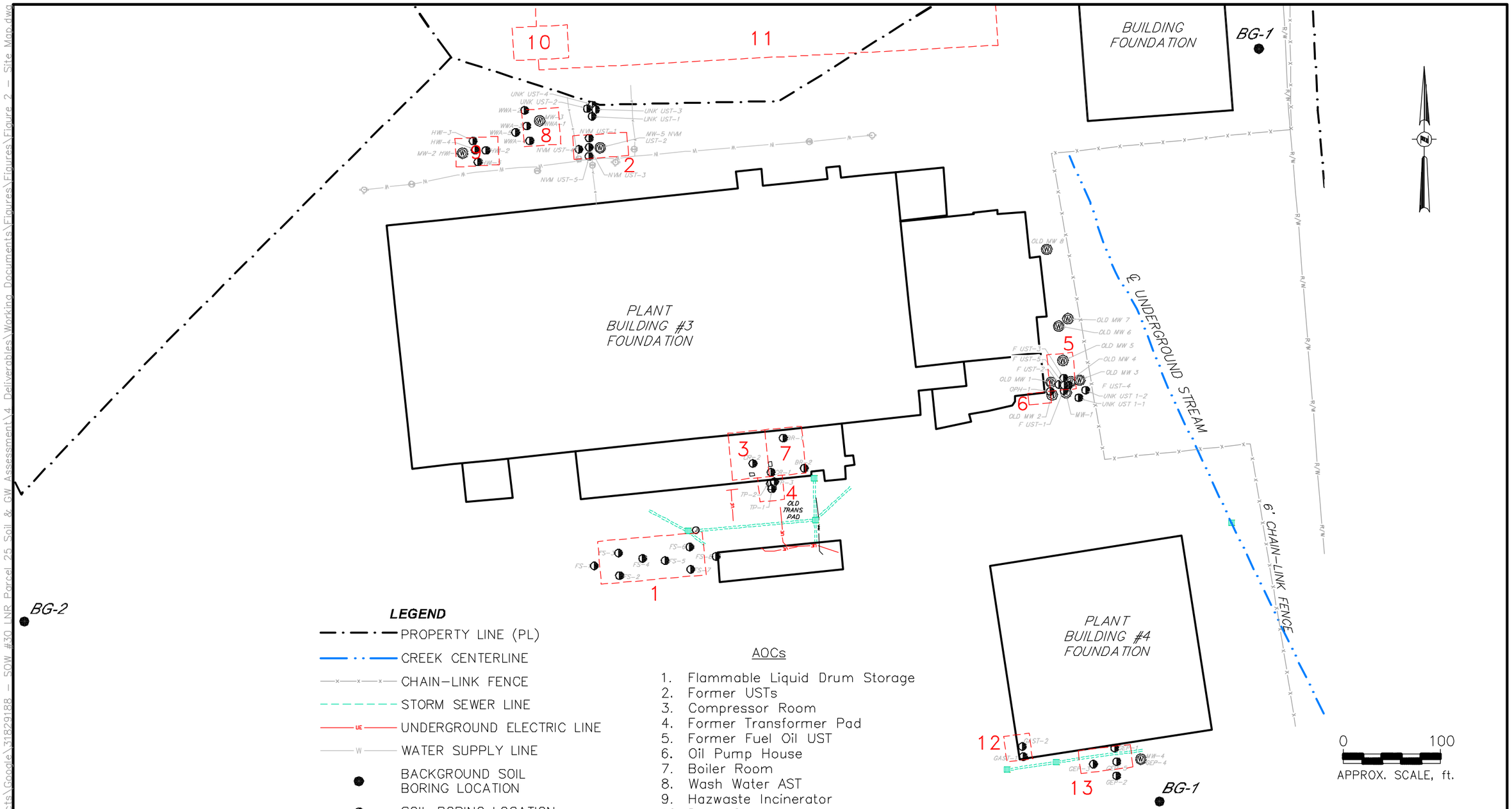
- PROPERTY LINE (PL)
- CREEK CENTERLINE
- CHAIN-LINK FENCE

0 300
APPROX. SCALE, ft.

SOURCE: TAYLOR WISEMAN & TAYLOR LAND SURVEYING DIVISION, DATED: 7-22-13.

SCALE: AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE: Figure 1. Aerial Map Former Singer Plant Lenoir, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS, RDU, NORTH CAROLINA 27560	DRAWN BY TSH	DATE 23AUG13	
	CHECKED BY CB	DATE 23AUG13	CONTRACT NO. 31829188.00001 / DRAWING NO. FIGURE-1 / REV. 0
	APPROVED BY BM	DATE 23AUG13	

P:\Common Projects\Google\31829188 - SOW #30 LNR Parcel 25 Soil & GW Assessment\4 Deliverables\Working Documents\Figures\Figure 1 - Aerial Map.dwg



LEGEND

- PROPERTY LINE (PL)
- CREEK CENTERLINE
- CHAIN-LINK FENCE
- STORM SEWER LINE
- UNDERGROUND ELECTRIC LINE
- WATER SUPPLY LINE
- BACKGROUND SOIL BORING LOCATION
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- AOC Location

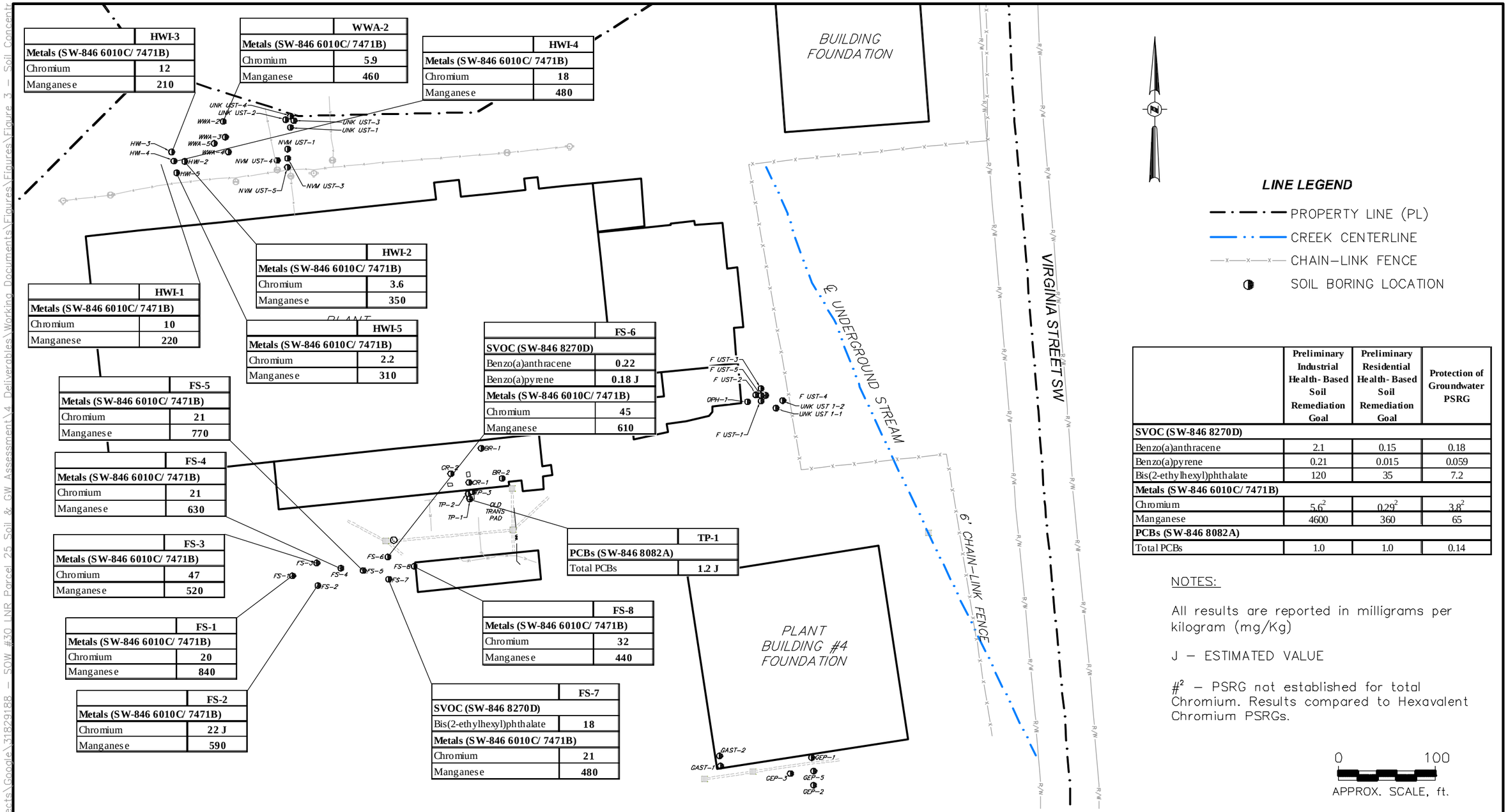
AOCs

1. Flammable Liquid Drum Storage
2. Former USTs
3. Compressor Room
4. Former Transformer Pad
5. Former Fuel Oil UST
6. Oil Pump House
7. Boiler Room
8. Wash Water AST
9. Hazwaste Incinerator
10. Drum Storage Area
11. Former Landfill
12. Glue ASTs
13. Former Glue Evaporation Pond

SOURCE: TAYLOR WISEMAN & TAYLOR LAND SURVEYING DIVISION, DATED: 7-22-13.

SCALE	DESIGNED BY	DATE	DRAWING TITLE
AS SHOWN			Figure 2. Site Map Former Singer Plant Lenoir, North Carolina
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RDU, NORTH CAROLINA 27560	DRAWN BY TSH	DATE 23AUG13	
	CHECKED BY CB	DATE 23AUG13	CONTRACT NO. 31829188.00001 / DRAWING NO. FIGURE-2 / REV. 0
	APPROVED BY BM	DATE 23AUG13	

P:\Common Projects\Google\31829188 - SOW #30 LNR Parcel 25 Soil & GW Assessment\4 Deliverables\Working Documents\Figures\Figure 2 - Site Map.dwg



	HWI-3
Metals (SW-846 6010C/ 7471B)	
Chromium	12
Manganese	210

	WWA-2
Metals (SW-846 6010C/ 7471B)	
Chromium	5.9
Manganese	460

	HWI-4
Metals (SW-846 6010C/ 7471B)	
Chromium	18
Manganese	480

	HWI-2
Metals (SW-846 6010C/ 7471B)	
Chromium	3.6
Manganese	350

	HWI-1
Metals (SW-846 6010C/ 7471B)	
Chromium	10
Manganese	220

	HWI-5
Metals (SW-846 6010C/ 7471B)	
Chromium	2.2
Manganese	310

	FS-6
SVOC (SW-846 8270D)	
Benzo(a)anthracene	0.22
Benzo(a)pyrene	0.18 J
Metals (SW-846 6010C/ 7471B)	
Chromium	45
Manganese	610

	FS-5
Metals (SW-846 6010C/ 7471B)	
Chromium	21
Manganese	770

	FS-4
Metals (SW-846 6010C/ 7471B)	
Chromium	21
Manganese	630

	TP-1
PCBs (SW-846 8082A)	
Total PCBs	1.2 J

	FS-3
Metals (SW-846 6010C/ 7471B)	
Chromium	47
Manganese	520

	FS-8
Metals (SW-846 6010C/ 7471B)	
Chromium	32
Manganese	440

	FS-1
Metals (SW-846 6010C/ 7471B)	
Chromium	20
Manganese	840

	FS-2
Metals (SW-846 6010C/ 7471B)	
Chromium	22 J
Manganese	590

	FS-7
SVOC (SW-846 8270D)	
Bis(2-ethylhexyl)phthalate	18
Metals (SW-846 6010C/ 7471B)	
Chromium	21
Manganese	480

	Preliminary Industrial Health-Based Soil Remediation Goal	Preliminary Residential Health-Based Soil Remediation Goal	Protection of Groundwater PSRG
SVOC (SW-846 8270D)			
Benzo(a)anthracene	2.1	0.15	0.18
Benzo(a)pyrene	0.21	0.015	0.059
Bis(2-ethylhexyl)phthalate	120	35	7.2
Metals (SW-846 6010C/ 7471B)			
Chromium	5.6[2]	0.29[2]	3.8[2]
Manganese	4600	360	65
PCBs (SW-846 8082A)			
Total PCBs	1.0	1.0	0.14

NOTES:

All results are reported in milligrams per kilogram (mg/Kg)

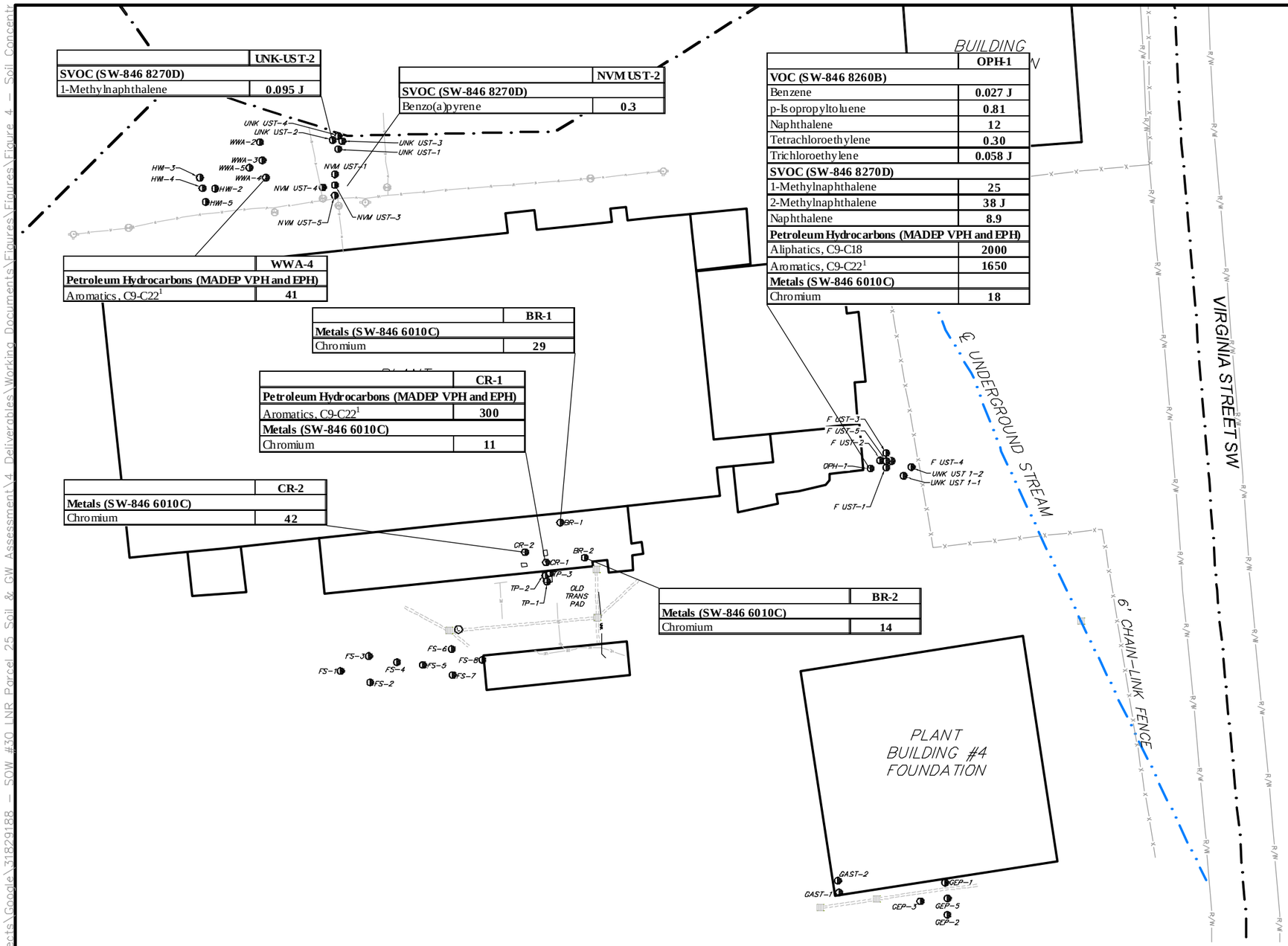
J – ESTIMATED VALUE

#[2] – PSRG not established for total Chromium. Results compared to Hexavalent Chromium PSRGs.

SOURCE: TAYLOR WISEMAN & TAYLOR LAND SURVEYING DIVISION, DATED: 7-22-13.

SCALE	DESIGNED BY	DATE	Figure 3. Soil Concentration Map, Compared to IHSB PSRGs Former Singer Plant Lenoir, North Carolina
AS SHOWN			
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RDU, NORTH CAROLINA 27560	DRAWN BY TSH	DATE 23AUG13	
	CHECKED BY CB	DATE 23AUG13	CONTRACT NO. 31829188.00001 / DRAWING NO. FIGURE-3 / REV. 0
	APPROVED BY BM	DATE 23AUG13	

P:\Common Projects\Google\31829188 – SOW #30 INR Parcel 25 Soil & GW Assessment\4 Deliverables\Working Documents\Figures\Figures\Figure 3 – Soil Concentr



	UNK-UST-2
SVOC (SW-846 8270D)	
1-Methylnaphthalene	**0.095 J**

	NVM UST-2
SVOC (SW-846 8270D)	
Benzo(a)pyrene	**0.3**

	OPH-1
VOC (SW-846 8260B)	
Benzene	**0.027 J**
p-Isopropyltoluene	**0.81**
Naphthalene	**12**
Tetrachloroethylene	**0.30**
Trichloroethylene	**0.058 J**
SVOC (SW-846 8270D)	
1-Methylnaphthalene	**25**
2-Methylnaphthalene	**38 J**
Naphthalene	**8.9**
Petroleum Hydrocarbons (MADEP VPH and EPH)	
Aliphatics, C9-C18	**2000**
Aromatics, C9-C22[1]	**1650**
Metals (SW-846 6010C)	
Chromium	**18**

	WWA-4
Petroleum Hydrocarbons (MADEP VPH and EPH)	
Aromatics, C9-C22[1]	**41**

	BR-1
Metals (SW-846 6010C)	
Chromium	**29**

	CR-1
Petroleum Hydrocarbons (MADEP VPH and EPH)	
Aromatics, C9-C22[1]	**300**
Metals (SW-846 6010C)	
Chromium	**11**

	CR-2
Metals (SW-846 6010C)	
Chromium	**42**

	BR-2
Metals (SW-846 6010C)	
Chromium	**14**

LINE LEGEND

- PROPERTY LINE (PL)
- CREEK CENTERLINE
- CHAIN-LINK FENCE
- SOIL BORING LOCATION

	Soil-to-Water MSCC	Residential Soil Cleanup Level	Industrial / Commercial Soil Cleanup Level
VOC (SW-846 8260B)			
Benzene	0.0056	18	164
p-Isopropyltoluene	0.12	100	4000
Naphthalene	0.16	313	8176
Tetrachloroethylene	0.0074	1.1	10
Trichloroethylene	0.019	4.6	120
SVOC (SW-846 8270D)			
1-Methylnaphthalene	0.004	20	100
2-Methylnaphthalene	3.6	63	1635
Benzo(a)pyrene	0.096	0.088	0.78
Naphthalene	0.16	313	8176
Petroleum Hydrocarbons (MADEP VPH and EPH)			
Aliphatics, C9-C18	540	1500	40000
Aromatics, C9-C22[1]	31	469	12264
Metals (SW-846 6010C)			
Chromium	5.4	47	1226

NOTES:

All results are reported in milligrams per kilogram (mg/Kg)

J – ESTIMATED VALUE

#[1] – Based on the sum of C9–C10 and C11–C12 Aromatics petroleum hydrocarbon results..

0 100

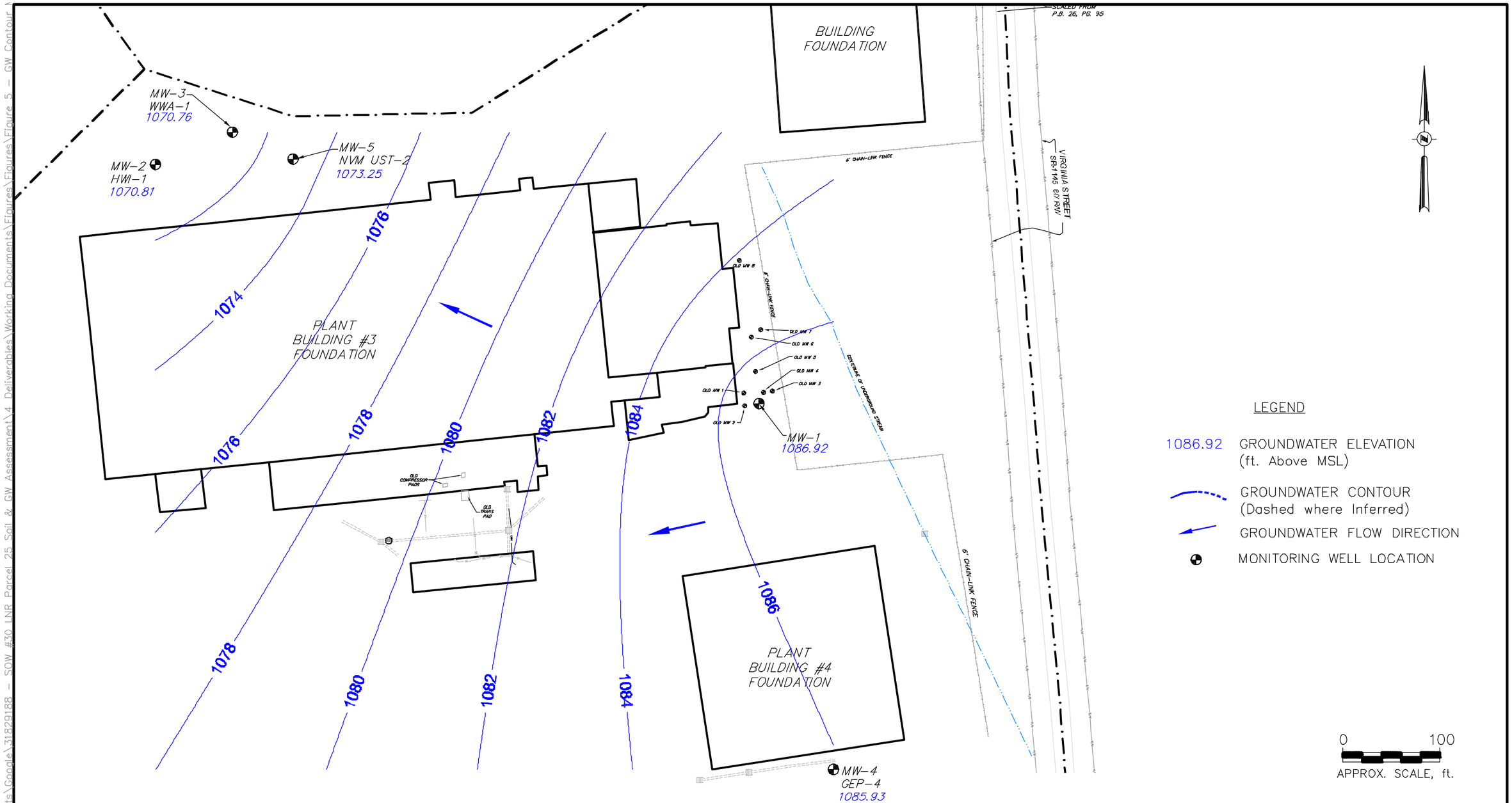
APPROX. SCALE, ft.

SOURCE: TAYLOR WISEMAN & TAYLOR LAND SURVEYING DIVISION, DATED: 7–22–13.

SCALE	DESIGNED BY	DATE	Figure 4. Soil Concentration Map, Compared to UST MSCCs Former Singer Plant Lenoir, North Carolina
AS SHOWN			
CONFIDENTIAL–ALL RIGHTS RESERVED–PROPERTY OF URS RDU, NORTH CAROLINA 27560	DRAWN BY TSH	DATE 23AUG13	
	CHECKED BY CB	DATE 23AUG13	
	APPROVED BY BM	DATE 23AUG13	

CONTRACT NO.	DRAWING NO.	REV.
31829188.00001	FIGURE–4	0

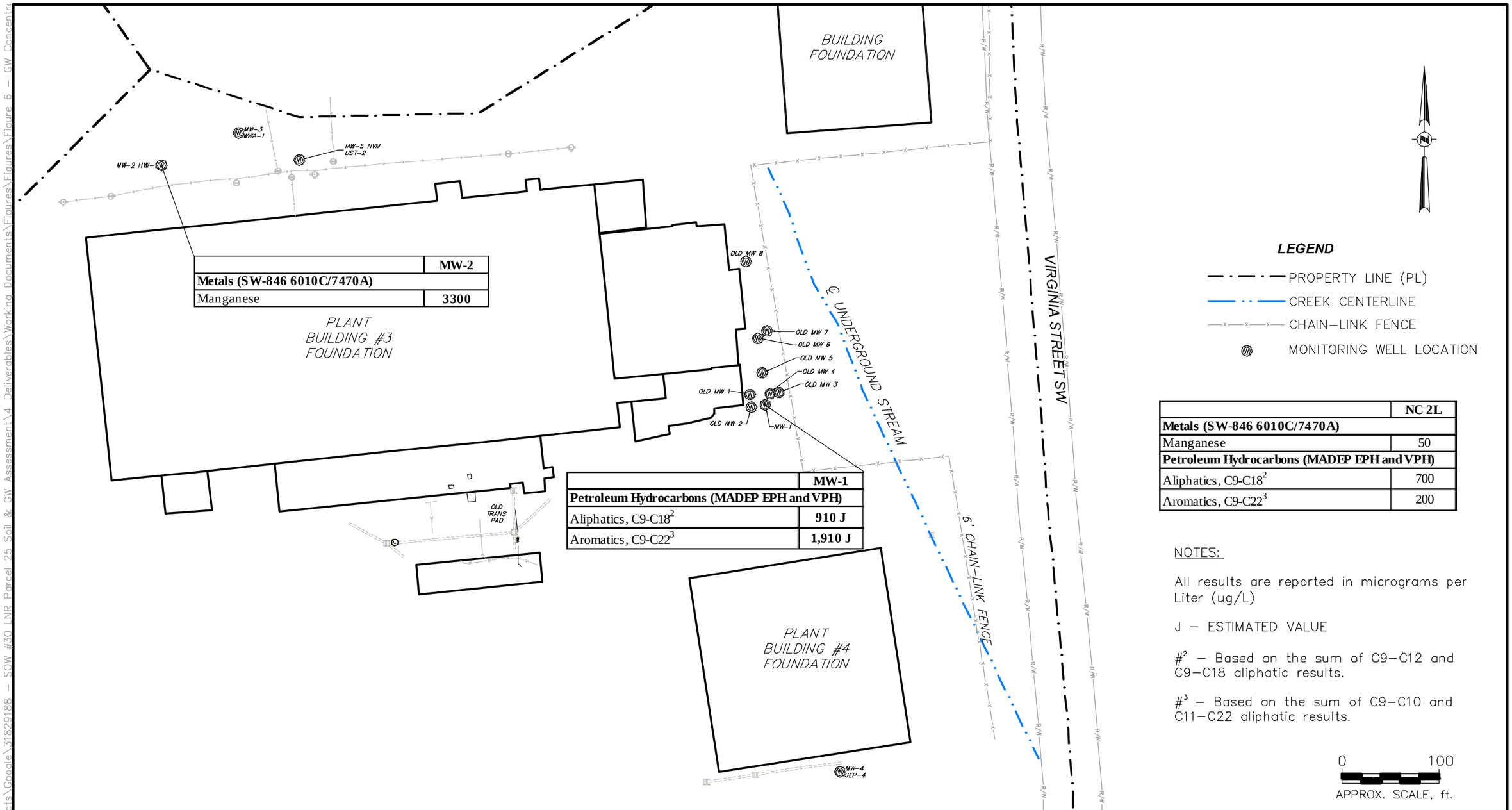
P:\Common Projects\Google\31829188 – SOW #30 LNR Parcel 25 Soil & GW Assessment\4 Deliverables\Working Documents\Figures\Figures\Figure 4 – Soil Concentr



SOURCE: TAYLOR WISEMAN & TAYLOR LAND SURVEYING DIVISION, DATED: 7-22-13.

SCALE AS SHOWN	DESIGNED BY	DATE	DRAWING TITLE Figure 5. Groundwater Contour Map Former Singer Plant Lenoir, North Carolina	
CONFIDENTIAL-ALL RIGHTS RESERVED-PROPERTY OF URS RDU, NORTH CAROLINA 27580	DRAWN BY TSH	DATE 23AUG13		
	CHECKED BY CB	DATE 23AUG13	CONTRACT NO. 31829188.00001	DRAWING NO. FIGURE-5 / REV. 0
	APPROVED BY BM	DATE 23AUG13		

P:\Common_Projects\Google\31829188 - SOW #30 LNR Parcel 25 Soil & GW Assessment\4_Deliverables\Working Documents\Figures\Figure 5 - GW Contour



	MW-2
Metals (SW-846 6010C/7470A)	
Manganese	**3300**

	MW-1
Petroleum Hydrocarbons (MADEP EPH and VPH)	
Aliphatics, C9-C18[2]	**910 J**
Aromatics, C9-C22[3]	**1,910 J**

	NC 2L
Metals (SW-846 6010C/7470A)	
Manganese	50
Petroleum Hydrocarbons (MADEP EPH and VPH)	
Aliphatics, C9-C18[2]	700
Aromatics, C9-C22[3]	200

NOTES:

All results are reported in micrograms per Liter (ug/L)

J – ESTIMATED VALUE

#[2] – Based on the sum of C9–C12 and C9–C18 aliphatic results.

#[3] – Based on the sum of C9–C10 and C11–C22 aliphatic results.

SOURCE: TAYLOR WISEMAN & TAYLOR LAND SURVEYING DIVISION, DATED: 7–22–13.

SCALE	DESIGNED BY	DATE	Figure 6. Groundwater Concentration Map Former Singer Plant Lenoir, North Carolina
AS SHOWN			
CONFIDENTIAL–ALL RIGHTS RESERVED–PROPERTY OF URS RDU, NORTH CAROLINA 27560	DRAWN BY TSH	DATE 23AUG13	
	CHECKED BY CB	DATE 23AUG13	CONTRACT NO. 31829188.00001 / DRAWING NO. FIGURE–6 / REV. 0
	APPROVED BY BM	DATE 23AUG13	

P:\Common Projects\Google\31829188 – SOW #30 LNR Parcel 25 Soil & GW Assessment\4 Deliverables\Working Documents\Figures\Figures\Figure 6 – GW Concentr

APPENDIX A

SOIL BORING AND MONITORING WELL LOGS

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: BR-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789656.620
EAST: 1243462.158
GROUND SURFACE ELEVATION: 1096.5
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Fill: Gravel / dedris				
						ML: Brown-red clayey SILT, slightly moist, micaceous	ML			
1095.0		HA / DPT						1.5		
						Blackish white and grey powder, dry				
						HA / DPT refusal @ 3.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: BR-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789625.536
EAST: 1243483.756
GROUND SURFACE ELEVATION: 1096.5
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Fill: Gravel / dedris				
1095.0		HA / DPT				ML: Red-brown sandy SILT, slightly moist, fine grained, micaceous	ML	0.8		
	-5					Blackish white and grey powder, wet @ 5.5 ft bgs		0.3		
						HA / DPT refusal @ 6.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: CR-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789621.326
EAST: 1243449.512
GROUND SURFACE ELEVATION: 1096.6
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Concrete: Concrete	Concrete			
1095.0		HA / DPT				ML: Light brown-orange sandy SILT, slightly moist, fine grained, micaceous HA / DPT refusal @ 3.5 ft bgs, advanced 2nd boring next to CR-1 for sample volume; lithology is the same	ML	6.2		

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: CR-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789630.473
EAST: 1243430.793
GROUND SURFACE ELEVATION: 1096.5
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Concrete: Concrete				
1095.0		HA / DPT				ML: Red-orange sandy SILT, slightly moist, fine grained, micaceous	ML	1.8		
						PWR: Blackish white and grey partially weathered rock HA / DPT refusal @ 3.0 ft bgs	PWR			

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FS-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789525.035
EAST: 1243267.436
GROUND SURFACE ELEVATION: 1096.1
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA / DPT				Asphalt: Asphalt				
						ML: Light brown-orange sandy SILT, dry, fine grained, micaceous	ML	1.1		
1095.0						HA / DPT refusal @ 1.5 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FS-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789514.953
EAST: 1243293.585
GROUND SURFACE ELEVATION: 1095.5
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: Topsoil / organics, some asphalt and gravel				
1095.0		HA / DPT				ML: Light brown-orange sandy SILT, dry, fine grained, micaceous	ML	1.0		
						HA / DPT refusal @ 1.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FS-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789538.248
EAST: 1243292.430
GROUND SURFACE ELEVATION: 1095.9
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA / DPT				Asphalt: Asphalt				
						ML: Light brown-orange sandy SILT, dry, fine grained, micaceous	ML	1.2		
1095.0						HA / DPT refusal @ 1.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FS-4
PROJECT NAME: Forme Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789532.753
EAST: 1243317.299
GROUND SURFACE ELEVATION: 1095.9
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Asphalt: Asphalt				
1095.0		HA / DPT				ML: Light brown-orange sandy SILT, dry, fine grained, micaceous	ML	3.0		
						PWR: Partially weathered rock HA / DPT refusal @ 3.0 ft bgs, advanced 2nd boring beside FS-4 for sample volume; lithology is the same	PWR			

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FS-5
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789530.384
EAST: 1243340.418
GROUND SURFACE ELEVATION: 1095.8
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0									
		HA / DPT				Asphalt: Asphalt				
1095.0						ML: Light brown-orange sandy SILT, dry, fine grained, micaceous	ML			
						PWR: Blackish white and grey partially weathered rock (diorite), moist, wet @ 5.0 ft bgs	PWR	0.7		
						HA / DPT refusal @ 5.0 ft bgs				
	-5									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FS-6
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789544.465
EAST: 1243365.827
GROUND SURFACE ELEVATION: 1095.7
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Asphalt: Asphalt				
1095.0						ML: Light brown-orange sandy SILT, dry, fine grained, micaceous	ML	1.0		
		HA / DPT				PWR: Blackish white and grey partially weathered rock (diorite), moist, wet @ 4.0 ft bgs	PWR			
						HA / DPT refusal @ 4.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FS-7
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789521.474
EAST: 1243366.730
GROUND SURFACE ELEVATION: 1095.4
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Asphalt: Asphalt				
1095.0		HA / DPT				ML: Light brown-orange sandy SILT, slightly moist, fine grained, micaceous	ML	1.0		
						HA / DPT refusal @ 1.5 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FS-8
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789534.808
EAST: 1243392.917
GROUND SURFACE ELEVATION: 1095.6
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Asphalt: Asphalt				
1095.0		HA / DPT				ML: Light brown-orange sandy SILT, slightly moist, fine grained, micaceous	ML	1.2		
						HA / DPT refusal @ 2.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FUST-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789705.496
EAST: 1243751.147
GROUND SURFACE ELEVATION: 1092.2
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel: Gravel (crush and run)				
1090.0		HA				Sandy Silt: Light brown, fine sandy SILT, sightly moist, micaceous		0.8		
	-5					Sandy Silt: Same as 3 ft bgs to red-brown	ML	12.1		
1085.0										
	-10	DPT	FUST-1					72.3		
1080.0						Silty Sand: Gray/black, silty fine-medium SAND, wet, odor	SM	NA		
						Boring terminated at 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FUST-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789711.764
EAST: 1243745.861
GROUND SURFACE ELEVATION: 1092.1
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel: Gravel (crush and run)				
1090.0		HA				SM: Reddish orange-brown, silty fine-medium SAND, slightly moist	SM	2.8		
		DPT				HA refusal at 3 ft; No recovery				
	-5					SM: Reddish orange, silty clayey fine-medium SAND; asphalt frag from 9-10 ft	SM	2.5		
1085.0			FUST-2					6.3		
	-10					Boring terminated at 10.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FUST-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789718.367
EAST: 1243751.052
GROUND SURFACE ELEVATION: 1092.2
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel: Gravel (crush and run)				
1090.0		HA				ML: Reddish brown, fine-medium sandy SILT, slightly moist, micaceous, some PWR frag; wet at 6.0 ft	ML	1.3		
	-5		FUST-3					3.2		
								NA		
1085.0		DPT				SM: Dark brown, medium-coarse SAND, wet, odor	SM			
	-10					Boring terminated at 10.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FUST-4
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789711.162
EAST: 1243751.377
GROUND SURFACE ELEVATION: 1092.0
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA				Gravel: Gravel (crush and run): switch to DPT at 1.0 ft due to gravel				
1090.0		DPT	FUST-4			ML: red-brown, fine-medium sandy SILT, slightly moist, micaceous, pieces of cloth encountered at ~4.0 ft bgs	ML	0.5		
	-5					CL: Red, sandy silty CLAY, wet; asphalt frag from 8.5-9.0 ft bgs	CL	NA		
1085.0						SM: Light brown, medium-coarse SAND, wet	SM			
	-10					Boring terminated at 10.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: FUST-5
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789711.162
EAST: 1243751.377
GROUND SURFACE ELEVATION: 1092.0
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel: Gravel (crush and run)				
1090.0		HA	FUST-5			ML: Light brown-red, fine sandy SILT, slightly moist, micaceous	ML	1.0		
						ML: Same as 4 ft bgs, moist; wet at 5.0 ft		1.8		
	-5					Boring terminated at 5.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: GAST-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789328.637
EAST: 1243709.204
GROUND SURFACE ELEVATION: 1094.2
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Concrete: Concrete				
		HA				ML: Light brown-orange sandy SILT, dry, fine to medium grained, micaceous, saprolitic	ML	0.9		
1090.0										
	-5	DPT						1.0		
						ML: Light brown-orange sandy SILT, slightly moist, fine to medium grained, micaceous, saprolitic		0.8		
1085.0										
	-10					PWR: Brownish black and white partially weathered rock	PWR			
1080.0										
	-15					Refusal @ 15.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: GAST-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789339.054
EAST: 1243708.280
GROUND SURFACE ELEVATION: 1094.2
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Concrete: Concrete				
		HA				ML: Light brown-orange sandy SILT, dry, fine to medium grained, micaceous, saprolitic		1.1		
1090.0										
	-5							1.7		
						ML: Light brown-orange sandy SILT, slighty moist, fine to medium grained, micaceous, saprolitic, wet @12.0 ft bgs	ML			
1085.0								1.8		
	-10	DPT								
1080.0						Refusal @ 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: GEP-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789337.312
EAST: 1243803.411
GROUND SURFACE ELEVATION: 1093.6
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: topsoil / organics	Topsoil			
		HA				ML: Light brown-orange / beige sandy SILT, dry, micaceous	ML	2.6		
1090.0						ML: Light brown-orange / beige sandy SILT, slightly moist, micaceous, some powder				
	-5									
		DPT				ML: Light brown-orange / beige sandy SILT, moist, micaceous		1.5		
1085.0						Refusal @ 9.5 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: GEP-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/08/13
DATE FINISHED: 07/08/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789308.833
EAST: 1243805.384
GROUND SURFACE ELEVATION: 1093.3
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: Grass / organics				
		HA				ML: Light brown-orange / beige sandy SILT, dry, fine to medium grained, micaceous, saprolitic		2.8		
1090.0										
	-5					ML: Light brown-orange / beige sandy SILT, slightly moist, fine to medium grained, micaceous, saprolitic	ML	1.6		
						ML: Light brown-orange / beige sandy SILT, moist, fine to medium grained, micaceous, saprolitic				
1085.0						ML: Light brown / beige sandy SILT, moist, fine to medium grained, micaceous				
	-10	DPT						1.3		
						No recovery, wet @12.5 ft bgs	NR			
1080.0										
	-15					Refusal @ 15.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: GEP-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789320.840
EAST: 1243781.402
GROUND SURFACE ELEVATION: 1093.3
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA / DPT				Topsoil: Topsoil / organic				
						ML: Light brown to brown sandy SILT, dry, fine grained, micaceous	ML	7.7		
						HA / DPT refusal @ 1.5 ft bgs, advanced 2nd boring next to GEP-3 for sample volume: lithology is the same				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: GEP-5
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789323.331
EAST: 1243805.550
GROUND SURFACE ELEVATION: 1093.3
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA				Topsoil: Topsoil / organics				
						ML: Light brown-orange sandy SILT, dry, fine to medium grained, micaceous, saprolitic	ML	1.5		
1090.0										
	-5	DPT						7.7		
						ML: Light brown-orange sandy SILT, slighty moist, fine to medium grained, micaceous, saprolitic, some partially weathered rock @ 9 ft bgs				
1085.0								2.8		
	-10					PWR: Brownish black and whitepartially weathered rock, wet @ 12.0 ft bgs	PWR			
1080.0										
	-15					Boring terminated @ 15.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: HWI-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789952.860
EAST: 1243156.021
GROUND SURFACE ELEVATION: 1091.1
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: Organics				
						Gravel				
1090.0		HA	HWI-2			ML: Light gray/brown, fine sandy SILT, dry, slight odor		3.7		
	-5					ML: Light brown/beige, fine sandy SILT, slightly moist, micaceous				
1085.0		DPT					ML	2.0		
	-10							1.7		
1080.0						ML: Light brown-orange/beige, clayey SILT, moist				
								1.9		
	-15					ML: Light brown-orange/beige, fine sandy SILT, moist				
						Boring terminated at 15.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: HWI-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789962.574
EAST: 1243142.597
GROUND SURFACE ELEVATION: 1091.0
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: Organics				
						Gravel				
1090.0						ML: Light orange-brown, fine sand SILT, dry, micaceous				
		HA	HWI-3					7.1		
	-5									
1085.0								4.6		
							ML			
	-10	DPT						4.1		
1080.0										
						ML: Light brown/beige, PWR, slightly moist				
								3.8		
						Boring terminated at 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: HWI-4
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789953.135
EAST: 1243144.847
GROUND SURFACE ELEVATION: 1091.1
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: Organics				
						Gravel				
1090.0						ML: Brown to dark brown, clayey SILT, slight odor				
		HA	HWI-4			ML: Light brown-orange, fine sandy SILT, slightly moist, micaceous		3.5		
	-5									
1085.0							ML	2.4		
	-10	DPT				ML: Light brown, fine sandy SILT, moist		2.7		
1080.0										
						PWR: Light brown/beige, PWR, moist	PWR	3.4		
						Boring terminated at 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: HWI-5
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789941.048
EAST: 1243147.779
GROUND SURFACE ELEVATION: 1091.2
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: Organics				
						Gravel				
1090.0						ML: Light brown, fine sandy SILT, slightly moist, micaceous				
		HA						5.1		
	-5									
1085.0			HWI-5					5.4		
							ML			
	-10	DPT						5.2		
1080.0						ML: Light brown-orange, fine sandy SILT, slightly moist				
						ML: Same to light brown, moist				
						PWR: Light gray/white, PWR, moist	PWR	4.0		
						Boring terminated at 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: NVM UST-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789965.529
EAST: 1243262.296
GROUND SURFACE ELEVATION: 1091.2
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA				Topsoil: Organics				
1090.0						ML: Light brown-red, fine sandy SILT, dry, micaceous, sap		5.1		
	-5	DPT	NVM UST-1			ML: Light brown/beige, fine-medium sandy SILT, slightly moist, micaceous	ML			
1085.0								11.2		
	-10					ML: Same to light brown/gray/beige		10.4		
1080.0						ML: Light gray/white/light brown, fine-medium sandy SILT, slightly moist to moist, sap		3.1		
	-15					Boring terminated at 15.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: NVM UST-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789965.529
EAST: 1243262.296
GROUND SURFACE ELEVATION: 1091.2
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA				Topsoil: Organics ML: Light brown-red, fine sandy SILT, dry, micaceous, sap	ML	5.1		
1090.0	-5	DPT	NVM UST-1			ML: Light brown/beige, fine-medium sandy SILT, slightly moist, micaceous		11.2		
1085.0	-10					ML: Same to light brown/gray/beige		10.4		
1080.0	-15					ML: Light gray/white/light brown, fine-medium sandy SILT, slightly moist to moist, sap Boring terminated at 15.0 ft bgs		3.1		

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: NVM UST-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/11/13
DATE FINISHED: 07/11/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789955.994
EAST: 1243262.281
GROUND SURFACE ELEVATION: 1091.0
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: Organics				
1090.0						ML: Light brown-orange, fine sandy SILT with trace clay, dry, micaceous				
		HA				ML: Light brown-orange/beige, fine sandy SILT, slightly moist, micaceous		8.3		
	-5									
1085.0								7.3		
							ML			
						ML: Same to light brown/beige				
	-10	DPT	NVM UST-3					9.2		
1080.0										
						ML: Light gray/white/black, fine-medium sandy SILT, slightly moist, slight odor, some staining, sap		2.3		
						ML: Light gray/white/black, fine-medium sandy SILT, moist, sap		1.7		
						Boring terminated at 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: NVM UST-4
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/11/13
DATE FINISHED: 07/11/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789953.961
EAST: 1243251.592
GROUND SURFACE ELEVATION: 1091.1
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Topsoil: Organics				
1090.0		HA				ML: Light brown-orange, fine sandy SILT, dry, micaceous		2.7		
	-5					ML: Same to light brown/beige				
1085.0		DPT						3.52		
			NVM UST-4			ML: Same to light brown-orange/beige	ML			
	-10							5.1		
1080.0						ML: Light gray/light brown/beige, fine sandy SILT, slightly moist to moist, sap				
						ML: Light gray to gray/beige, fine sandy SILT, slightly moist to moist, sap, slight odor		3.8		
	-15					Boring terminated at 15.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: NVM UST-5
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/11/13
DATE FINISHED: 07/11/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789946.719
EAST: 1243262.203
GROUND SURFACE ELEVATION: 1090.9
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA				Topsoil: Organics				
1090.0		DPT				ML: Light brown-orange, fine sandy SILT, slgihtly moist, micaceous; switched to DPT due to rock at 1.0 ft	ML			
						ML: Rock				
						ML: Light brown-orange, fine sandy SILT, slightly moist, micaceous, some rock fragments		0.8		
	-5		NVM UST-5			ML: Light brown/beige, fine-medium sandy SILT, slightly moist to moist, sap				
1085.0						ML: Brown, fine sandy SILT, moist, micaceous		0.9		
						ML: Same to orange-red, wet at 7.0 ft				
						ML: Light brown/orange/beige, fine sandy SILT, wet, sap				
	-10									
1080.0										
						ML: Light gray to gray/white, fine-medium sandy SILT, wet, sap				
						Boring terminated at 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: OPH-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789704.746
EAST: 1243737.124
GROUND SURFACE ELEVATION: 1092.5
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel				
1090.0		HA				CL: Brown, silty CLAY, slightly moist, visible staining, petro odor	CL	289.0		
	-5					ML: Light brown-red, fine sandy SILT, moist, micaceous (native), odor	ML	185.8		
1085.0		DPT	OPH-1			CL: Brown to dark brown, silty CLAY, stiff, slightly moist, some gravel, visible sheen, petro odor	CL	502.2		
						ML: Red, fine sandy SILT, moist, micaceous, odor	ML	75.1		
	-10					ML: Same to wet Boring terminated at 10.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: TP-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/02/13
DATE FINISHED: 07/02/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789604.386
EAST: 1243450.316
GROUND SURFACE ELEVATION: 1096.2
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA / DPT				Fill: Gravel / asphalt with dark brown silt matrix, slightly moist	Fill			
1095.0						ML: Brown orange clayey SILT, slightly moist, micaceous with gravel / asphalt	ML			
						ML: Brown orange SILT, with trace sand, micaceous				
						HA / DPT refusal @ 3.0 ft bgs, advanced 2nd boring next to TP-1 for sample volume; same lithology				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: TP-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/02/13
DATE FINISHED: 07/02/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789609.603
EAST: 1243448.946
GROUND SURFACE ELEVATION: 1096.3
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA / DPT				Fill: Gravel / asphalt with dark brown silt matrix, slightly moist	Fill			
1095.0						ML: Light brown orange clayey SILT, slightly moist, micaceous with gravel / asphalt fragments, slight odor	ML			
						Gravel: Gravel	Gravel			
						ML: Light brown orange clayey SILT, slightly moist, micaceous HA / DPT refusal @ 4.0 ft bgs, advanced 2nd boring next to TP-2 for sample volume; same lithology	ML			

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: TP-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/02/13
DATE FINISHED: 07/02/13
FIELD ENGINEER: BC
DRILLER: Danny Summers
NORTH: 789611.701
EAST: 1243453.008
GROUND SURFACE ELEVATION: 1096.5
GWL DATE: N/A
GWL DEPTH: N/A
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BC
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA / DPT				Fill: Gravel / asphalt with brown gray silt matrix, slightly moist, odor	Fill			
1095.0						ML: Light brown orange clayey SILT, slightly moist, micaceous some with gravel / asphalt fragments	ML			
						PWR: Grey-black partially weathered rock	PWR			
						No recovery	NR			
	-5									
1090.0						HA / DPT refusal @ 7.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: UNK UST 1-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789698.157
EAST: 1243766.525
GROUND SURFACE ELEVATION: 1092.1
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel: Gravel (crush and run)				
1090.0		HA				ML: Light brown-orange, fine sandy SILT, slightly moist, micaceous; ~2in layer of rock frag at 5.5 ft and ~3 in layer of rock frag at 7.0 ft	ML	0.7		
	-5									
		DPT						0.6		
1085.0										
			UNK UST 1-1			CL: Dark brown, silty CLAY, moist, slight odor; wet at 9.5 ft	CL	2.7		
	-10					Boring terminated at 10.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: UNK UST 1-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/09/13
DATE FINISHED: 07/09/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789698.933
EAST: 1243773.533
GROUND SURFACE ELEVATION: 1092.1
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Asphalt				
						ML: Light brown-orange, fine sandy SILT, slightly moist, micaceous	ML	0.7		
1090.0		HA								
						CL: Dark brown, CLAY, sight odor				
			UNK UST 1-2			CL: Red, CLAY, slightly moist	CL			
						ML: Light brown-orange, fine sandy SILT, slightly moist, micaceous				
	-5									
						ML: Same to moist	ML	0.6		
1085.0		DPT								
						PWR: Gray/brown, PWR, wet	PWR	2.7		
						CL: Brown, CLAY, stiff, wet	CL			
	-10					Boring terminated at 10.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: UNK UST 2-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789987.934
EAST: 1243265.267
GROUND SURFACE ELEVATION: 1091.2
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel				
1090.0		HA	UNK UST 2-1			ML: Red-brown, fine sandy SILT, dry, micaceous	ML	9.4		
	-5									
1085.0		DPT						7.7		
						DPT refusal at 8.5 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: UNK UST 2-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789995.895
EAST: 1243260.298
GROUND SURFACE ELEVATION: 1091.4
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel				
1090.0		HA								
			UNK UST 2-2			ML: Red-brown, fine sandy clayey SILT, dry, micaceous	ML	18.8		
						ML: Light brown/white/orange, fine-medium sandy SILT, slightly moist				
	-5	DPT				DPT refusal at 6.0 ft bgs		3.6		

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: UNK UST 2-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789994.957
EAST: 1243268.906
GROUND SURFACE ELEVATION: 1091.3
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel				
1090.0		HA				ML: Brown-red, fine sandy clayey SILT, dry, micaceous				
			UNK UST 2-3					12.2		
						ML: Light brown-orange, fine sandy SILT, slightly moist	ML			
	-5							4.1		
		DPT								
1085.0						DPT refusal at 7.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: UNK UST 2-4
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789999.509
EAST: 1243265.393
GROUND SURFACE ELEVATION: 1091.4
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel				
1090.0		HA/DPT	UNK UST 2-4			ML: Brown-red, clayey SILT, slightly moist	ML	1.7		
						ML: Same to moist; visually observed and heard water coming into boring post drilling activities				
						DPT refusal at 4.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: WWA-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789994.050
EAST: 1243195.818
GROUND SURFACE ELEVATION: 1091.2
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel				
1090.0		HA	WWA-2			ML: Light brown-red, fine sandy SILT, dry, micaceous	ML	5.7		
						ML: Same to light brown/gray				
	-5					ML: Light brown-orange/beige, fine sandy SILT, slightly moist, micaceous				
1085.0								3.1		
						ML: Same to light brown				
	-10	DPT						3.3		
1080.0						ML: Light brown-orange/beige, fine-medium sandy SILT, moist, micaceous				
								2.9		
						Boring terminated at 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: WWA-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789977.955
EAST: 1243198.011
GROUND SURFACE ELEVATION: 1091.2
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel				
1090.0		HA	WWA-3			ML: Light brown-orange, fine sandy SILT, dry, micaceous	ML	3.5		
	-5									
1085.0								1.8		
						ML: Same to light gray/beige, sap				
	-10	DPT				ML: Light brown/beige, fine sandy SILT, slightly moist, micaceous, sap		3.1		
1080.0										
						ML: Same to moist		1.8		
						Boring terminated at 15.0 ft bgs				
	-15									

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: WWA-4
PROJECT NAME: Former Singer Plant
DATE BEGAN: 07/10/13
DATE FINISHED: 07/10/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789962.638
EAST: 1243201.053
GROUND SURFACE ELEVATION: 1091.1
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: DPT
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0					Gravel				
1090.0		HA	WWA-4			ML: Light brown-gray, fine sandy SILT, dry, micaceous	ML	87.2		
	-5	DPT				ML: Same to slightly moist		5.3		
1085.0						ML: Light brown/beige, fine sandy SILT, slgihtly moist, micaceous		5.1		
	-10									
1080.0						ML: Light gray to greenish gray/white, fine-medium sandy SILT, moist, sap		3.7		
	-15					Boring terminated at 15.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: MW-1
PROJECT NAME: Former Singer Plant
DATE BEGAN: 7/02/13
DATE FINISHED: 7/02/13
FIELD ENGINEER: B. Costner
DRILLER: Danny Summers
NORTH: 789703.348
EAST: 1243753.542
GROUND SURFACE ELEVATION: 1092.3
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: 4 1/4 ID HSA
DRILL EQUIP: Geoprobe 6620 DT
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA				Gravel: Gravel (crush and run)				
1090.0						ML: Light brown-orange, fine sandy SILT, slightly moist	ML			
	-5	HSA								
1085.0						SM: Same to light brown, moist, some PWR fragments	SM			
						ML: Same to wet	ML			
	-10					Note: while pulling augers out for well install field personnel observed sheen on lead auger and strong petro odor				
						HSA refusal at 12.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: MW-2
PROJECT NAME: Former Singer Plant
DATE BEGAN: 7/09/13
DATE FINISHED: 7/09/13
FIELD ENGINEER: B. Morrow
DRILLER: Nicholas Hayes
NORTH: 789949.878
EAST: 1243131.776
GROUND SURFACE ELEVATION: 1093.86
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: 4 1/4 ID HSA
DRILL EQUIP: B-58
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
1095.0	0	HA				Topsoil: Grass/organics				
						CL: Reddish brown, CLAY	CL	1.7		
1090.0	-5		HWI-1			ML: Reddish brown, SILT, very micaceous	ML	2.5		
1085.0	-10	HSA				ML: Light brown, SILT, very micaceous		2.2		
1080.0	-15					ML: Same to saprolitic features observed		1.6		
						ML: Alternating layers of quartz and dark minerals (relict foliation from 0.25 to 0.5 in), moist				
1075.0	-20					ML: Same to wet				
1070.0	-25					Boring terminated at 25.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: MW-3
PROJECT NAME: Former Singer Plant
DATE BEGAN: 7/09/13
DATE FINISHED: 7/09/13
FIELD ENGINEER: B. Morrow
DRILLER: Nicholas Hayes
NORTH: 789983.309
EAST: 1243211.204
GROUND SURFACE ELEVATION: 1094.19
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: 4 1/4 ID HSA
DRILL EQUIP: B-58
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
1095.0										
	0	HA				Topsoil: Grass/organics Gravel: Gray		2.1		
1090.0						ML: Gray, SILT, saprolitic	ML			
	-5	HSA				ML: Alternating layers of quartz and dark minerals (majority quartz ~1in layers and dark mineral layers ~1/8in thick), iron staining, micaceous		1.9		
1085.0										
	-10		WWA-1			ML: Foliation at 45 degrees		2.6		
1080.0						ML: Alternating layers of quartz and dark minerals at ~1/8 in thick		1.9		
	-15					ML: Same to moist				
						ML: Same to wet				
1075.0										
	-20					Boring terminated at 24.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: MW-4
PROJECT NAME: Former Singer Plant
DATE BEGAN: 7/09/13
DATE FINISHED: 7/09/13
FIELD ENGINEER: B. Morrow
DRILLER: Nicholas Hayes
NORTH: 789325.853
EAST: 1243830.411
GROUND SURFACE ELEVATION: 1096.21
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: 4 1/4 ID HSA
DRILL EQUIP: B-58
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
	0	HA				Topsoil: Grass/organics				
1095.0						ML: Light brown/beige, fine sandy SILT, slightly moist, micaceous	ML	2.0		
	-5	HSA	WWA-1							
1090.0						ML: Same to moist		3.4		
						ML: Same to some PWR				
	-10					ML: Light brown/brown/white, PWR		1.7		
1085.0						ML: Same to wet				
	-15									
1080.0						Boring terminated at 18.0 ft bgs				

LITHOLOGIC LOG / SOIL BORING LOG

PROJECT NO: 31829188
BORING NO: MW-5
PROJECT NAME: Former Singer Plant
DATE BEGAN: 7/11/13
DATE FINISHED: 7/11/13
FIELD ENGINEER: B. Costner
DRILLER: Nicholas Hayes
NORTH: 789955.483
EAST: 1243273.591
GROUND SURFACE ELEVATION: 1096.21
GWL DATE: NA
GWL DEPTH: NA
DRILLING METHOD: 4 1/4 ID HSA
DRILL EQUIP: B-58
CHECKED BY: BM
CONTRACTOR: Geologic Exploration, Inc.

ELEV (FT.)	DEPTH (FT.)	DRILLING METHOD	SAMPLE TYPE / SAMPLE NUMBER	REC (IN.)	PROFILE	DESCRIPTION	USCS	PID (ppm)	Appx. Water Level	.
1095.0										
	0	HA	NVM UST-2			Topsoil: Grass/organics, some gravel	ML			
						ML: Light brown-orange, fine sandy SILT, dry, micaceous		36.4		
1090.0						ML: Same to light brown/beige, saprolitic				
	-5					ML: Light gray/light brown/white, fine sandy SILT, saprolitic		11.0		
1085.0										
	-10	HSA/DPT						17.9		
1080.0						ML: Same to moist		13.5		
	-15					ML: Same to wet				
1075.0		HSA								
	-20					Boring terminated at 23.0 ft bgs				

APPENDIX B

FIELD DOCUMENTATION

DRILLING LOG

DISTRICT		HOLE NUMBER: TP-1
1. COMPANY NAME: URS	2. DRILLING SUBCONTRACTOR: Gtx	SHEET ___ OF ___ SHEETS
3. PROJECT: Parcel 29 - Lenoir	4. LOCATION: Lenoir, NC	
5. NAME OF DRILLER: Danny Summers	6. MANUFACTURE'S DESIGNATION OF DRILL: 6620 DT Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: Hg to 5 ft GP (macrocore)	8. HOLE LOCATION: See map	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 7/2/13	11. DATE COMPLETED: 7/2/13
12. OVERBURDEN THICKNESS:	15. DEPTH GROUNDWATER ENCOUNTERED:	
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING:	
14. TOTAL DEPTH OF HOLE:	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED ✓	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	1:3		PCB			

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
				Brandy Costner

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE

DRILLING LOG

HOLE TP-1 /

PROJECT Parcel 25 - Lenoir

INSPECTOR Brandy Costner

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		0-1.5: gravel/asphalt w/ some dark brown silt matrix					
	1.0						
		1.5- Brown-orange, slightly moist clayey SILT, micaceous; gravel / asphalt					
	2.0						
		2.5- Brown-orange, SILT w/ trace fine sand, micaceous, No visual or olfactory obs some gravel					
	3.0	Refusal @ 3.0 ft					
	4.0	* advanced 2nd boring next to TP-1 for sample volume, same lithology.					
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE 7/2/13 PROJECT HOLE NO. /

DRILLING LOG

DISTRICT		HOLE NUMBER: TP-2
1. COMPANY NAME: URS	2. DRILLING SUBCONTRACTOR: GEx	SHEET 1 OF SHEETS
3. PROJECT: Parcel 25-Lenoir	4. LOCATION: Lenoir, NC	
5. NAME OF DRILLER: Danny	6. MANUFACTURE'S DESIGNATION OF DRILL: U620 DT Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HA: 1-5; GP: 5-10	8. HOLE LOCATION: see map	
	9. SURFACE ELEVATION: —	
	10. DATE STARTED: 7/2/13	11. DATE COMPLETED: 7/2/13
12. OVERBURDEN THICKNESS: 4.0 ft	15. DEPTH GROUNDWATER ENCOUNTERED: —	
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING: —	
14. TOTAL DEPTH OF HOLE: 4.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY): —	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
	—	✓	

20. SAMPLES FOR CHEMICAL	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY
	1.2		PCB			%

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	grouted			Brandy Costner

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE

DRILLING LOG

HOLE: TP-21

PROJECT: Parcel 25 Lenoir

INSPECTOR: Brandy Costner

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel/asphalt w/ dark brown-gray silt matrix, slightly moist					
	1.0	Light brown orange, slightly moist, clayey SILT, micaceous, gravel/asphalt frag.; Slight odor					
	2.0						
	3.0	Gravel 3-3.25 ft Light brown orange, slightly moist, clayey silt, micaceous					
	4.0	Refusal @ 4.0 ft					
	5.0	* Advanced boring next to TP-2 for sample volume					
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/2/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

DISTRICT		HOLE NUMBER: TP-3
1. COMPANY NAME: URS	2. DRILLING SUBCONTRACTOR: GEx	SHEET 1 OF SHEETS
3. PROJECT: Parcel 25-Lenoir	4. LOCATION: Lenoir, NC	
5. NAME OF DRILLER: Danny	6. MANUFACTURE'S DESIGNATION OF DRILL: Ide20 DT Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HA: 1-5; GP (macrocore):	8. HOLE LOCATION: see map	
	9. SURFACE ELEVATION: —	
	10. DATE STARTED	11. DATE COMPLETED
12. OVERBURDEN THICKNESS: 7.0 ft	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK: —	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	
14. TOTAL DEPTH OF HOLE: 7.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES
	—	✓	

20. SAMPLES FOR CHEMICAL	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %
	0.9		PCB			

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
	Grouted			Mirandy Costner

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE

DRILLING LOG

HOLE TP-31

PROJECT Parcel 25-Lenoir

INSPECTOR Brandy Costner

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel/asphalt w/ brown-gray silt matrix, slightly moist, odor					
	1.0	Lt brown orange, slightly moist, micaceous, some gravel/asphalt frag					
	2.0						40% recovery
		Gray/black PWR					
	3.0						
		No recovery					
	4.0						
	5.0						
		No recovery					
	6.0						
	7.0	Refusal @ 7.0 ft (Rock)					
	8.0						
	9.0						

DATE 7/2/13 PROJECT HOLE NO. 1

DRILLING LOG

DISTRICT		HOLE NUMBER: MW-1
1. COMPANY NAME: URS	2. DRILLING SUBCONTRACTOR: GTX	SHEET 1 OF SHEETS 3
3. PROJECT: Parcel 25- Lenoir	4. LOCATION: Lenoir, NC	
5. NAME OF DRILLER: Danny Summers	6. MANUFACTURE'S DESIGNATION OF DRILL: 6620 DT Geoprobe	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: HSA- 4¼ ID	8. HOLE LOCATION: See map	
	9. SURFACE ELEVATION:	
	10. DATE STARTED: 7/2/13	11. DATE COMPLETED: 7/2/13
12. OVERBURDEN THICKNESS: 12 ft	15. DEPTH GROUNDWATER ENCOUNTERED: ~8.0	
13. DEPTH DRILLED INTO ROCK:	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING:	
14. TOTAL DEPTH OF HOLE: 12.0 ft	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY):	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		✓		Brandy Costner

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE

DRILLING LOG

HOLE MW-11

PROJECT Parcel 25 - Lenoir

INSPECTOR

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		0-0.25: gravel					No visual or olfactory observations during well install.
	1.0	Light brown-orange, slightly moist, fine sandy SILT, micaceous. No odor					
	2.0						
	3.0						
	4.0						
	5.0						
	6.0						
	7.0	same to light brown, moist, rock frag (PWR)					
	8.0	wet @ ~8.0 ft					When pulling augers WRS noticed sheen on lead auger + petro odor
	9.0						

DATE 7/2/13 PROJECT HOLE NO. 1

DRILLING LOG

HOLE NO. MW-1

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0						
	12.0	Encounter rock @ 12.0 ft Refusal @ 12.0 ft					
	13.0	Well set @ 12.0 ft Screen = 12-4 Sand = 3.5-4 bent = 3.0 - 3.5 grout = 0 - 3.0					
	14.						
	15.0						
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: GEP-11

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Grass; topsoil/organics					
		light brown-orange/beige; F-m sandy silt; dry, micaceous					
	1.0						
			2.6			HA	
	2.0						
	3.0	same to some PWR, slightly moist					
	4.0						
	5.0					Macro	
	6.0		1.5				
	7.0	same to moist					
	8.0						
	9.0						
		Refusal @ 9.5 ft					

DATE: 7/8/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: GEP-21

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Grass/topsoil (organics)					
		Light brown-orange/beige, ~~firm~~ sandy SILT, dry, micaceous, sap					
	1.0						
	2.0		2.8			HA	
	3.0						
	4.0	same to slightly moist					
	5.0						
	6.0		1.6			Macro	
	7.0	same to moist					
	8.0	light brown/beige, F-m trace coarse sandy SILT, moist, micaceous					
	9.0		1.3				

DATE: 7/8/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. GEP-2

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0						
	12.0						
		Wet @ ~ 12.5 ft					No soils collected beyond this depth
	13.0						
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: CR-11

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		concrete					
		light brown-orange; fine sandy SILT; slightly moist, micaceous	6.2				
	1.0						
	2.0						
	3.0						
		Refusal @ 3.5 ft					
	4.0	*Advanced 2nd boring next to this boring for sample volume - lithology same.					
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: CR-2 1

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete					
		Red-orange, fine sandy SILT, slightly moist, micaceous					
	1.0		1.8				
	2.0						
		Black/white/gray, PUR					
	3.0	Refusal @ 3.0 ft					
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: BR-11

PROJECT: PBC Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel/debris					
		Brown-Red, clayey SILT, slightly moist, micaceous					
	1.0		1.5				
	2.0	Black/white/gray, PWR Dry					
	3.0	Refusal @ 3.0 ft					
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: BR-21

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete					
	1.0	Red-brown; Fine sandy SILT, slightly moist, micaceous	0.8				
	2.0						
	3.0						
	4.0						
	5.0	Gray/black/white; pwR	0.3				
		Wet @ ~55 ft					
	6.0	Refusal @ 60 ft					
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: FS-8 1

PROJECT: Google - Lenior

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt					
		Lt. brown-orange, Fine sandy SILT, dry, micaceous	1.1				
	1.0						
		Refusal @ 1.5 ft					
	2.0						
	3.0						
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT: Google - Lenior

HOLE NO.: FS-8 1

DRILLING LOG

HOLE: BS-21

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Top soil/organics; some asphalt/gravel					
		Light brown-orange, fine sandy SILT, dry, micaceous	1.0				
	1.0	Refusal @ 1.0 ft					
	2.0						
	3.0						
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: FS-31

PROJECT: Google - Lenior

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt					
		Light brown-orange, fine sandy SILT, dry, micaceous	1.2				
	1.0	Refusal @ 1.0 ft					
	2.0						
	3.0						
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT: Google - Lenior

HOLE NO.: FS-31

DRILLING LOG

HOLE: FS-4 1

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt					
		Light brown-orange, Fine sandy SILT slightly moist, micaceous					
	1.0		3.0				
	2.0						
		PWR					
	3.0	Refusal @ 3.0 ft					
	4.0	* Advanced 2nd boring beside original for sample volume - lithology same					
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: ES-5 1

PROJECT: Google - Lenior

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS ppm	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt					
		Light brown-orange, fine sandy SILT, dry, micaceous	0.7				
	1.0	Black/white/gray, PWR (diorite) moist					
	2.0						
	3.0						
	4.0						
		wet @ 5.0 ft					
	5.0	Refusal @ 5.0 ft					
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT: Google - Lenior

HOLE NO.: ES-5 1

DRILLING LOG

HOLE: FS-6 1

PROJECT: Google - Lenior

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt					
		Light brown-orange, fine sandy SILT, dry, micaceous					
	1.0		1.0				
		Black/white/gray: PWR (diorite) moist					
	2.0						
	3.0						
		wet @ 4.0 ft					
	4.0	Refusal @ 4.0 ft					
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT: Google - Lenior

HOLE NO.: FS-6 1

DRILLING LOG

HOLE: FS-7 /

PROJECT: Google - Lenior

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt					
		Lt brown-orange, fine sandy SILT, slightly moist, micaceous	1.0				
	1.0						
		Refusal @ 1.5 ft					
	2.0						
	3.0						
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/8/13

PROJECT: Google - Lenior

HOLE NO.: FS-7 /

DRILLING LOG

HOLE FS-B1

PROJECT Parcel 25

INSPECTOR Pbc

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel w/ dark brown. silt matrix, slightly moist					
	1.0	Light brown-orange, fine sandy SILT, slightly moist, micaceous	1.2				
	2.0	Auger refusal @ 20 ft + DPT					
	3.0						
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE | PROJECT | HOLE NO. 1

DRILLING LOG

HOLE GPST-1 1

PROJECT Parcel 25

INSPECTOR BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete/gravel sub-base					
	1.0	Light brown-orange, F-m sandy SILT, slightly moist, micaceous, soft					
	2.0		0.9				
	3.0						
	4.0						
	5.0		1.0				
	6.0						
	7.0						
	8.0	same to moist					
	9.0		0.8				

DATE 7/9/13

PROJECT

HOLE NO. 1

DRILLING LOG

HOLE NO. GAST-1

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Brown/black/white, PWR					
		wet @ 11.0 ft					
	11.0						
	12.0						
	13.0						
	14.						
	15.0	Boring terminated @					
		sampled @ 1210					
	16.0	(8-12)					
	17.0						
	18.0						
	19.0						

PROJECT HOLE NO.

DRILLING LOG

HOLE GAGF21

PROJECT

INSPECTOR

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Concrete w/ gravel sub-base					
	1.0	Light brown-orange, F-m Sandy SILT, slightly moist, micaceous, sap					
	2.0		1.1				
	3.0						
	4.0						
	5.0						
	6.0		1.7				
	7.0	same to moist					
	8.0		*				
	9.0		1.8				

DATE 7/9/13

PROJECT

HOLE NO. 1

DRILLING LOG

HOLE NO. GAST-2

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		~~bf~~					
	11.0						
	12.0	wet @ 12.0 ft					
	13.0						
	14.						
	15.0	Boring terminated @ 15.0 ft					
		sampled @ 1220					
	16.0	S-12					
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE GEP-3 1

PROJECT Parcel 25

INSPECTOR BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil/organics					
		Light brown to brown, fine sandy SILT dry, micaceous					
	1.0		7.7				
		Refusal @ 1.5 ft					
	2.0						
		* Advanced 2nd boring for volume					
	3.0						
		sampled @ 1140					
	4.0						
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE 7/9/13

PROJECT

HOLE NO. 1

DRILLING LOG

HOLE: GEP-51

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil/organics					
		Light brown orange, F-m sandy SILT, slightly moist, micaceous					
	1.0		1.5				
	2.0						
	3.0						
	4.0						
	5.0						
	6.0		1.7				
	7.0	same to slightly moist to moist					
	8.0						
	9.0	same to some PWR	2.8				

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. GEP-5

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Brown/black/white, PWR					
	11.0						
		wet @ 12.0 ft					
	12.0						
	13.0		NA				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0	Sampled @ 1200					
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: FUST-11

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel (crush + run)					
	1.0	light brown, Fine sandy SILT, slightly moist, micaceous					
	2.0		0.8				
	3.0	same to red-brown				HA	
	4.0						
	5.0						
	6.0		12.1			Macro	
	7.0	Gravel layer					
	8.0		*				
	9.0		12.3				

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. FUST-1

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0	Gray/black, silty F-m sand, odor, wet					
	12.0		NA				
	13.0						
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: FUST21

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel (crush + run)					
	1.0	Reddish orange-brown, silty F-m sand, slightly moist (Fill)	2.8			HA	
	2.0						
	3.0	HA refusal					
	4.0	No recovery				Macro	
	5.0	Reddish orange silty clayey F-m sand	2.5				
	6.0						
	7.0						
	8.0		*				
	9.0	Asphalt	6.3				
		Refusal @ 10.0 Ft					

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: FLST-31

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel (crush + run)					
	1.0	Reddish brown, f-m sandy SILT, slightly moist, micaceous; some RW R frag.	1.3			HA	
	2.0						
	3.0						
	4.0		*				
	5.0		3.2				
	6.0	Wet @ ~6.0 ft					
	7.0	Dark brown, sand (m-c), wet, No odor	NA			DPT	
	8.0		NA				
	9.0						
		Boring terminated @ 10.0 ft					

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: HUSF41

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel (crush tnun)	*				
	1.0	Red-brown, F-m sandy SILT, slightly moist, micaceous				HA	could not continue HA due to gravel
			0.5				
	2.0						
	3.0						
	4.0	Piece of cloth @ ~4.0 ft					
	5.0	Red, sandy silty clay, wet					
			NA				
	6.0						
	7.0						
	8.0						
		Asphalt					
	9.0						
		Light brown, m-c sand, wet					
		Boring terminated @ 10.0 ft					

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: MST-51

PROJECT: Parcel 25

INSPECTOR: [illegible]

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel (crush trim)					
		Light brown-red, Fine sandy SILT, slightly moist, micaceous					
	1.0		1.0				
	2.0						
	3.0						
	4.0	moist @ 4.0 ft	* 1.8				
	5.0	wet @ 5.0 ft					
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: unknust, 1-1

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel (crush tuan)					
	1.0	light brown-orange, fm sandy clayey SILT, slightly moist, micaceous.					
	2.0		0.7				
	3.0						
	4.0						
	5.0						
		Rock frag @ 55 ft (~ 2in)	0.6				
	6.0						
	7.0	Rock Frag @ ~ 7.0 ft (~ 3in)					
	8.0	Dark brown, silty CLAY, Moist, No mica, slight odor	* 2.7				
	9.0						
		Wet @ 9.5 ft					

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: unknown #2

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Asphalt					
		Light brown-orange, fine sandy SILT, slightly moist, micaceous					
	1.0						
			2.7				
	2.0						
	3.0	3-3.25: Dark brown, clay, slight odor	*				
		3.25-4.0: Red, clay, slightly moist	16.5				
	4.0	Light brown-orange, fine sandy SILT, slightly moist, micaceous					
	5.0						
			13.6				
	6.0	Same to moist					
	7.0						
	8.0	Gray/brown, PWR, wet					
	9.0		NA				
		Brown clay, stiff, wet					
		Boring terminated @ 10.0 ft					

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

DISTRICT		HOLE NUMBER: MW-2
1. COMPANY NAME: URS	2. DRILLING SUBCONTRACTOR: GEX	SHEET 1 OF 4 SHEETS
3. PROJECT: LNR Parcel #25	4. LOCATION: Lenior, NC	
5. NAME OF DRILLER: Nicolas Hayes	6. MANUFACTURE'S DESIGNATION OF DRILL: B-58	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4 1/4 HSA; 2'-2" SS (continuous)	8. HOLE LOCATION: See map	
	9. SURFACE ELEVATION: Unknown	
	10. DATE STARTED: 7/9/13	11. DATE COMPLETED: 7/9/13
12. OVERBURDEN THICKNESS: (strong saprolite fractures @ 16'	15. DEPTH GROUNDWATER ENCOUNTERED: ≈ 18	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	
14. TOTAL DEPTH OF HOLE: 25	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		[illegible]

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE
LNR Parcel #25	MW-2

DRILLING LOG

HOLE: MW-21

PROJECT: LNR Parcel #25

INSPECTOR: Brandt Morrow

SHEET 2 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		grass, organics					hand auger to 5'
		Reddish brown clay					
	1.0						
	2.0		1.7				
	3.0	Reddish brown silt, very micaceous					
	4.0						
	5.0				MW-1		
			*				
	6.0		2.5				
	7.0						
	8.0	light brown silt, very micaceous					
	9.0		2.2				

DATE: 7/9/13

PROJECT: LNR Parcel #25

HOLE NO.: MW-21

DRILLING LOG

HOLE NO. MW-2

PROJECT LWR Parcel #25

INSPECTOR BM

SHEET 3 OF SHEETS 4

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0						
	12.0	Saprolitic Features					
	13.0						
	14.		1.6				
	15.0						
	16.0	alternating layers (relict Foliation (from 1/8" - 1/2") of quartz and dark minerals, moist					
	17.0						
	18.0	wet					
	19.0						

DRILLING LOG

HOLE NO. MW-2

PROJECT LNR Parcel #25

INSPECTOR BM

SHEET 4 OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	21.						
	22.						
	23.						
	24.						
	25.0	Bottom of Monitoring well					
		screen 25-15					
		casing 15-0					
	26.0	sand 25-13					
		bentonite 13-11					
		grout 11-0					
	27.0						
	28.0	soil sampled @ 1230					
	29.0						

7/9/13 PROJECT LNR #25 HOLE NO. MW-2

DRILLING LOG

DISTRICT		HOLE NUMBER: MW-3
1. COMPANY NAME: URS	2. DRILLING SUBCONTRACTOR: GEX	SHEET 1 OF SHEETS
3. PROJECT: LNR Parcel #25	4. LOCATION: Lenior, NC	
5. NAME OF DRILLER: Nicolas Hayes	6. MANUFACTURE'S DESIGNATION OF DRILL: B-58	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4¼ HSA; 2'-2" - SS (continuous)	8. HOLE LOCATION: See map	
	9. SURFACE ELEVATION: Unknown	
	10. DATE STARTED: 7/9/13	11. DATE COMPLETED: 7/9/13
12. OVERBURDEN THICKNESS	15. DEPTH GROUNDWATER ENCOUNTERED	
13. DEPTH DRILLED INTO ROCK	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	
14. TOTAL DEPTH OF HOLE	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		B.J. [illegible]

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE
LNR Parcel #25	MW-3

DRILLING LOG

HOLE: MW-3 /

PROJECT: LNR #25

INSPECTOR: Brandt Morrow

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		grass organics					hand auger to 5' bgs
		grey, gravel (fill)					
	1.0						
	2.0		2.1				
	3.0						
		grey silt, (probably saprolite)					
	4.0						
	5.0						
	6.0	alternating layers of quartz + dark minerals (majority quartz 1" layers as opposed to 1/8" layers of dark minerals), iron staining, micaceous	1.9				
	7.0						
	8.0						
	9.0		* 2.6		WWA-1 1610		

DATE: 7/9/13

PROJECT: LNR #25

HOLE NO.: MW-3 /

DRILLING LOG

HOLE NO. MW-3

PROJECT LNR Parcel #25

INSPECTOR PM

SHEET 3 OF 3 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		(foliation @ 45° from 10-12)					
	11.0						
	12.0						
	13.0						
			1.9				
	14.	(alternating quartz + dark mineral layers now = @ ≈ 1/8")					
	15.0						
	16.0	moist					
	17.0						
		I					
	18.0						
	19.0						

7/9/13 PROJECT LNR #25 HOLE NO. MW-3

DRILLING LOG

HOLE NO. MW-3

PROJECT 0 LNR Parcel #25

INSPECTOR BM

SHEET OF 4 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS (ppm)	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	21.						
	22.						
	23.						
	24.	Bottom of well					
		casing 14-0					
	25.0	screen 24-14					
		sand 24-12					
		bentonite 12-10					
	26.0	grout 10 0					
	27.0						
	28.0						
	29.0						

7/9/13 PROJECT LNR #25 HOLE NO. MW-3

DRILLING LOG

1. COMPANY NAME: URS	2. DRILLING SUBCONTRACTOR: GEX	DISTRICT
		HOLE NUMBER: GEP-4 / MW-4
		SHEET 1 OF 3 SHEETS
3. PROJECT: LNR Parcel #25	4. LOCATION: Lenior, NC	
5. NAME OF DRILLER: Danny Summers / Nicolas Hayes	6. MANUFACTURE'S DESIGNATION OF DRILL: Geoprobe / B-58	
7. SIZES AND TYPES OF DRILLING AND SAMPLING EQUIPMENT: 4 1/4 HSA; Geoprobe 5' rods	8. HOLE LOCATION: See map	
	9. SURFACE ELEVATION: Unknown	
	10. DATE STARTED: 7/9/13	11. DATE COMPLETED: 7/9/13
12. OVERBURDEN THICKNESS: NA	15. DEPTH GROUNDWATER ENCOUNTERED: ≈12	
13. DEPTH DRILLED INTO ROCK: NA	16. DEPTH TO WATER AND ELAPSED TIME AFTER DRILLING	
14. TOTAL DEPTH OF HOLE: 18	17. OTHER WATER LEVEL MEASUREMENTS (SPECIFY)	

18. GEOTECHNICAL SAMPLES	DISTURBED	UNDISTURBED	19. TOTAL NUMBER OF CORE BOXES

20. SAMPLES FOR CHEMICAL	VOC	METALS	OTHER (SPECIFY)	OTHER (SPECIFY)	OTHER (SPECIFY)	21. TOTAL CORE RECOVERY %

22. DISPOSITION OF HOLE	BACKFILLED	MONITORING WELL	OTHER (SPECIFY)	23. SIGNATURE OF INSPECTOR
		X		[illegible]

LOCATION SKETCH/COMMENTS

SCALE:

PROJECT	HOLE

DRILLING LOG

HOLE: GEP 4 1

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil/organics					
		Light brown/beige, fine sandy SILT, slightly mast, micaceous					
	1.0						
			2.0				
	2.0						
	3.0						
	4.0						
	5.0						
			3.4				
	6.0	same to ~~SM~~ BF moist					
	7.0						
	8.0	same to some PWR					
			1.7				
	9.0						

DATE: 7/9/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. GEP-4

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Light brown/brown/white, PWR					
	11.0						
	12.0	wet @ 12.0 ft					
	13.0		NA				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0	Sampled @ 1150					
	17.0						
	18.0	Bottom of monitoring well, pulled up to 14' due to water level being higher than expected					
	19.0	screen 14-4 casing 4-0 (to ground surface) sand 14-3.5 bentonite 3.5-3 grout 3-0					

PROJECT

HOLE NO. GEP-4

DRILLING LOG

HOLE: 1274-1 /

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel (crushtrun)					
	1.0	Brown, silty CLAY, slightly moist, stained, petro odor [Fill]					
	2.0		287.0				
	3.0						
	4.0	Light brown-red, fine sandy SILT, slightly moist, Native, odor (Micaceous)					
	5.0		185.8				
	6.0						
	7.0						
	8.0	Brown to dark brown, silty CLAY, stiff, slightly moist, some gravel, visual sheen, petro odor	502.2				
	9.0	Red, fine sandy clayey SILT, moist, micaceous, odor	75.1				
		Wet @ ~9.5 ft Boring terminated @ 10.0 ft					

DATE: 7/10/13

PROJECT:

HOLE NO.: /

DRILLING LOG

HOLE: HwI-21

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil/organics					
		Gravel					
	1.0	Lt gray/brown, fine sandy SILT, dry, slight odor					
	2.0		*				
			3.7				
	3.0						
	4.0	Lt brown/beige, fine sandy SILT, slightly moist, micaceous					
	5.0						
	6.0		2.0				
	7.0						
	8.0						
	9.0		17				

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. AwI-2

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0	Light brown-orange/beige, clayey SILT, moist					
	12.0		1.9				
	13.0						
	14.						
		same to fine sandy SILT					
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: HWT-31

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		topsoil/organics					
		Gravel					
	1.0	Light orange-brown, fine sandy SILT, dry micaceous					
	2.0		* 7.1				
	3.0						
	4.0						
	5.0		46				
	6.0						
	7.0						
	8.0						
	9.0		4.1				

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. HWI-3

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0						
	12.0	Light brown/beige, PWR slightly moist					
	13.0		3.8				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: HWI-4

PROJECT: Parcel 25

INSPECTOR: BE

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil/organics					
		Gravel					
		Brown to dark brown, clayey SILT, dry, slight odor	* 3.5				
	1.0						
		lt brown/orange, fine sandy SILT, slightly moist, micaceous					
	2.0						
	3.0						
	4.0						
	5.0						
	6.0		24				
	7.0						
	8.0						
	9.0		2.7				

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. HVI-4

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Light brown, fine sandy silt, moist					
	11.0						
	12.0	Light brown/beige, PWR, moist					
	13.0		3.4				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: HVT-S1

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil / ~~gravel~~ organics					
		Gravel					
	1.0	Light brown, fine sandy SILT. Slightly moist, micaceous					
	2.0		5.1				
	3.0						
	4.0						
	5.0		* 5.4				
	6.0						
	7.0						
	8.0		5.2				
	9.0						

DATE	PROJECT	HOLE NO.
		1

DRILLING LOG

HOLE NO. HW-5

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0	Light brown-orange, fine sandy SILT, slightly moist					
	12.0						
		Same to lt brown, moist					
	13.0		4.0				
		Lt gray/white, pwR, moist					
	14.						
	15.0	Boring terminated @15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: August 2L1

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel					
	1.0						
		Red-brown, fine sandy SILT, dry, micaceous					
	2.0		* 9.4				
	3.0						
	4.0						
	5.0						
	6.0		7.7				
	7.0						
	8.0						
		Refusal @ 8.5 ft					
	9.0						

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: unKusta-12

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel					
	1.0						
	2.0	Brown-Red, Fine sandy clayey SILT, dry, micaceous	*				
	3.0		18.8				
	4.0	Light brown/white/orange, F-m Sandy SILT, slightly moist					
	5.0		3.6				
	6.0	Refusal @ 6.0 ft					
	7.0						
	8.0						
	9.0						

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: MKUST2-3

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel					
	1.0						
	2.0	~~Red~~ Brown-Red, fine sandy Clayey SILT, dry, Micaceous	* 12.2				
	3.0						
	4.0						
	5.0	Lt brown-orange, fine sandy SILT, slightly moist	4.1				
	6.0						
	7.0	Refusal @ 7.0 ft					
	8.0						
	9.0						

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: unk UST 2-4

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel					
		Brown-red, clayey SILT, slightly moist					
	1.0		*				
			1.7				
	2.0						
	3.0	same to moist					
	4.0	wet @ 4.0 ft					
		* visually observed + heard water coming into boring					
	5.0						
	6.0						
	7.0						
	8.0						
	9.0						

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE: WWA-21

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel					
	1.0						
	2.0	Light brown-red, fine sandy SILT, dry, micaceous	* 5.7				
	3.0						
	4.0	Same to light brown/gray					
	5.0	Light brown-orange/beige, fine sandy SILT, slightly moist, micaceous	3.1				
	6.0						
	7.0						
	8.0	Same to light brown					
	9.0		3.3				

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. MWA-2

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0	Light brown-orange/beige, Fm sandy SILT, moist, micaceous					
	12.0						
	13.0		2.9				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: WWA-31

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel					
	1.0	Light brown-orange, fine sandy SILT, dry, micaceous					
	2.0		*3.5				
	3.0						
	4.0						
	5.0		1.8				
	6.0						
	7.0						
	8.0	same to lt gray/beige, sap					
	9.0		3.1				

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. MW-3

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Light brown/beige, fine sandy SILT, slightly moist, micaceous					
	11.0						
	12.0						
	13.0	same to moist	1.8				
	14.						
	15.0	Boring terminated @15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: MW4-41

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel					
	1.0	Light brown-gray, fine sandy SILT, dry micaceous.	* 87.2				
	2.0						
	3.0						
	4.0						
	5.0	same to slightly moist	5.3				
	6.0						
	7.0						
	8.0	Light brown/beige, fine sandy SILT, slightly moist, micaceous	5.1				
	9.0						

DATE: 7/10/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO.	
PROJECT 0	INSPECTOR
SHEET OF SHEETS	

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0	Lt gray to greenish gray/white, f-m sandy SILT, sap, moist					
	12.0						
			3.7				
	13.0						
	14.						
	15.0	Boring terminated @ 15 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT	HOLE NO.

DRILLING LOG

HOLE WA-51

PROJECT Parcel 25

INSPECTOR BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Gravel	1				
	1.0						
		Brown-orange, Fine ~~SILTY SAND~~ BC, sandy SILT, dry, micaceous, some gravel	3.6 *				
	2.0						
	3.0						
	4.0	Light brown-gray/beige, Fm sandy SILT, slightly moist, micaceous					
	5.0		2.5				
	6.0						
	7.0						
	8.0						
	9.0		2.8				

DATE 7/10/13 PROJECT HOLE NO. 1

DRILLING LOG

HOLE NO. WWA-5

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0						
	12.0	Light brown/orange/beige, Fr sandy SILT slightly moist, micaceous,					
	13.0	same to moist	2.2				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: AMMUST-01

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil/Grass					
		Lt brown-red, fine sandy SILT, dry, micaceous, sap				HA	
	1.0						
			5.1				
	2.0						
	3.0						
	4.0						
			*				
	5.0	Light brown/beige, Fm sandy SILT, slightly moist, micaceous, sap					
			11.2				
	6.0						
	7.0						
	8.0						
			10.4				
	9.0	Same to light brown/gray/beige					

DATE 7/11/13

PROJECT

HOLE NO. 1

DRILLING LOG

HOLE NO. NVM UST-3

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0	Light gray / white / light brown, F-m sandy SILT, slightly moist to moist, sap					
	12.0						
	13.0		3.1				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: NWA UST-B

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil / grass					
		Light brown-orange, fine sandy SILT (trace clay), Micaceous					
	1.0						
			8.3				
	2.0	Light brown-orange / beige, fine sandy SILT, slightly moist, micaceous					
	3.0						
	4.0						
	5.0						
			7.3				
	6.0						
	7.0						
	8.0	same to light brown / beige					
			* 9.2				
	9.0						

DATE: 7/11/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. NVM UST-3

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0						
	12.0	Light gray/white/black, F-m sandy SILT, slightly moist to moist, slight odor, some staining (black) Sap					
	13.0		2.3				
	14.	Light gray/white/black, F-m sandy SILT, moist, sap	1.7				
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: NVMUST/-4

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil/grass					
		Light brown-orange, fine sandy SILT, micaceous					
	1.0						
	2.0		2.7				
	3.0						
	4.0	same to light brown/beige					
	5.0		3.2				
	6.0						
	7.0	same to light brown-orange/beige					
	8.0		*				
			5.1				
	9.0						

DATE: 7/11/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. NVM UST-4

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0	light gray / lt brown / beige, f-m sandy SILT, slightly moist to moist, sap					
	12.0	Light gray to gray / beige, f-m sandy SILT, slightly moist to moist, sap, slight odor					
	13.0		3.6				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: NVM UST7-5

PROJECT:

INSPECTOR:

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		Topsoil/grass					
		Light brown-orange, fine sandy SILT, slightly moist, micaceous					
	1.0	Rock					
	2.0	Light brown-orange, fine sandy SILT (some rock frag), slightly moist, micaceous	0.8				
	3.0						
	4.0						
			*				
	5.0	Light brown/beige, Fm sandy SILT, slightly moist to moist, sap	0.9				
	6.0	Brown, F sandy SILT, moist, micaceous					
	7.0	wet @ 7.0 ft Some to orange-red					
	8.0	Light brown/orange/beige, F sandy SILT, wet, sap					
	9.0						

DATE: 7/11/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. NVM UST-5

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0						
	12.0						
	13.0	Light gray to gray / white, F-M sandy SILT, wet					
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

DRILLING LOG

HOLE: NW/MUST-#2

PROJECT: Parcel 25

INSPECTOR: BC

SHEET 2 OF 2 SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
		~~Grout~~ Topsoil/Grass some gravel Light brown-orange, fine sandy SILT, dry, micaceous					
	1.0						
		Some to light brown/beige, sap (relic structure)	BC ~~11.0~~ 36.4				
	2.0						
	3.0	Light gray/lt brown/white, fine sandy SILT, sap (relic structure) slightly moist					
	4.0						
	5.0		11.0				
	6.0						
	7.0						
	8.0		17.9				
	9.0						

DATE: 7/11/13

PROJECT:

HOLE NO.: 1

DRILLING LOG

HOLE NO. NVM UST-2

PROJECT 0

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	11.0						
	12.0						
	13.0						
		Same to moist	13.5				
	14.						
	15.0	Boring terminated @ 15.0 ft					
	16.0						
	17.0						
	18.0						
	19.0						

PROJECT

HOLE NO.

BP DRILLING LOG

HOLE NO. NVM UST-2

PROJECT

INSPECTOR

SHEET OF SHEETS

ELEV a.	DEPTH b.	DESCRIPTION OF MATERIALS c.	FIELD SCREENING RESULTS	GEOTECH SAMPLE OR CORE BOX NO.	ANALYTICAL SAMPLE NO.	BLOW COUNTS	REMARKS h.
	21.0						
	22.0						
	23.0	Boring terminated @ 23.0 ft					
	24.0	MW-5 Screen - 13-23 Sand - 11-23 bent - 9-11 grout - 0-9					
	25.0						
	26.0						
	27.0						
	28.0						
	29.0						

PROJECT

HOLE NO.

B. Costner

75° overcast — Parcel 25 — 7/1/13

0950 Arrive @ Facility, check in @ guard shack @ LNR facility

1000 Check in @ lobby to meet w/ Jon Rogers

1020 Meet w/ Jon Rogers to discuss SOW and plans for the next 3 days.
- Also issued a radio to for security to open + close gates to property. Will pick-up/return radio each day.

1100 Mob to subject property to meet TWT / Geologic Ex + do site recon w/ Jon Rogers.

1130 Conduct H+S mtg w/ crew + discuss SOW.

1150 Geologic off-site for lunch
- TWT begins utility locate
- BC calls A. Taylor to discuss property boundary issue for Area 10 + 11. Based on maps + conversation w/ Jon those locations are not on subject property. Potentially will not do any borings in these locations.

~1200 Call Jon Rogers to inform + send map showing landfill extent. Also once he had availability to verify property boundary + discuss what will be done in lieu of new information.
- BC begins locating boring locations based on map

Parcel 25 — 7/1/13

1230 Geologic arrives back on-site from lunch

~1330 John on-site to discuss property boundary + issue w/ Area 10 + 11
- Based on maps + known property boundary URS will not investigate Area 10 + 11 since they are on the singer property. Borings from Area 8 + 9 will ~~complete~~ BC double to assess any leaching from drum storage area. Depending on observations when drilling borings a step out boring may be necessary.

1415 Begins raining; TWT breaks for lunch + puts sensitive equip up out of the weather.

1445 TWT continues locating, Geologic begins unloading rig/equipment
- Geologic takes rig to knock down vegetation in Area 13 to allow URS to visually inspect area of Glue

Parcel 25 7/1/13

1545 Attempt SB @ A4 to see how saturated ground was for soil sampling
- soil/material not saturated will attempt to advance SB
- hit refusal w/ HA, due to time URS will not be able to collect samples today - will collect all Transformer Pad Samples tomorrow

1645 Geologic off-site

1700 TWT finished locate for day; will return tomorrow to complete Areas 25, 9 + SW (creek).

1710 BC called security to close gates Crew will return @ 0730 tomorrow.
- BC waits for security to close gates

~1730 Mob to LNR facility to turn in radio + check out. Also asked security if I needed to stay @ property until they had time to shut gate; Security said no it was OK for URS to leave site
- URS off site

B. Costner
70° Rain

Parcel 25 7/2/13

0700: BC arrives @ LNR Facility to check in and pick up radio

0720: arrive @ subject property; await crew

0725: TWT arrives on-site

0730: Conduct HTS mtg w/ TWT

0740: TWT continues utility locate
- waiting on GEx arrival

0800: GEx on-site; begin raining @ ~0750

0830: Quit raining; conduct HTS mtg w/ GEx

0845: Begin soil sampling @ Transformer Pad

0855: Begin advancing TP-borings
- hit refusal @ all 3 locations

0930: Call A Taylor to discuss
- will sample the little soil collected in each boring + advance a second beside each boring location for volume + take composite

0950: Collect TP-1 (Dup-1 collected here)

0955: Collect TP-2

1000: Collect TP-3

1015: Abandon TP-1 thru TP-3
- Called Amanda to discuss what could be done rest of day. Crew will attempt

Parcel 25 7/2/13

1030: Prep for MW Installation @ Area 1

1100: Begin MW-1 @ Area 1
- started raining heavily; stopped work

1145: Stop ~~raing~~ BC raining continue well install

1200: Call A. Taylor to inform we hit refusal on rock @ ~30 ft in Area 1
- mob to fuel oil UST location to attempt well install

1300: MW-1 in area 5 installed; will grout once crew returns from lunch

1315: TWT completes utility locate
- BC takes pics before rain removes markings

1345: GEx back on-site from lunch
- set up decon pit to decon augers/equip

1400: Begin raining again; drill crew mobs to MW-1 for grouting activities

1445: MW-1 grouted; clean site for lunch

Parcel 25 7/2/13

Drum Total
2 - soil
4 - empty

* added coupling to MW-1 to extend above surface due to rain

1500: GEx off-site
- BC calls security to shut gates & mobs to LNR facility to turn in radio.
- spoke w/ Mr. Rogers to inform URS would not be back to site until next monday

1530: BC off-site to ship samples

1630: Ship samples @ Fedex facility in Hickory, NC.
AirBill # 803043471 2210

BJC

80° partly cloudy
B.Costner/B.Morrow Parcel 25 07/8/13

0725: Arrive @ Lenoir Facility to check in + retrieve radio.
- guard informed BC radio issued to her had been used by someone else + they could not locate it as of yet. They will send patrol to open gate + send radio once it has been located.

0735: BC arrives @ site to await Patrol to open gate

0740: - Patrol arrives to open gate, but keys are no working. Patrol goes back to facility get 2nd set of keys.

0745: Geologic arrives on-site; conduct HASS mtg + discuss today's activities while we await gates to be opened

0900: Call main gate to ask if security was able to locate keys. Guard said they just had shift change and was not aware of gate @ Bernhart prop. needed to be opened. He will open ASAP.

1415: Security arrives on-site - 2nd attempt to unlock gate. Keys would not work so they gave GEx ok to cut lock + they will replace lock.

Parcel 25 7/8/13

0950: Begin advancing soil borings in AOC 1

1000: B. Morrow arrives on-site; conduct HASS mtg + discuss today's activities

1130: Crew breaks for lunch

1230: Crew arrives back on-site from lunch; continue advancing/sampling soil borings in AOC 1

Sample	Time	
GEP-1	1715	
GEP-2	1730	
CR-1	1610	
CR-2	1630	
BR-1	1640	
BR-2	1700	
FS-1	1320	
FS-2	1340	
FS-3	1350	
FS-4	1600	
FS-5	1410	
FS-6	1440	
FS-7	1300	
FS-8	1510	
DUP-2	1420	(Duplicate of FS-5

Parcel 25 7/8/13

1300: Advance borings @ AOC 3 + 7
BC ~~15~~ - Brandt Morrow taking PID readings and sampling
1530: Advance borings @ AOC
1700: GEx off-site, BC/BM continue sampling remaining soils
1730: BC/BM off-site to pack coolers
- BC checks out @ gate of facility + security is on way to close gates
1830: BC arrives @ Fed Ex to ship 2 coolers w/ soil samples
Air Bill # 8026 4039 9234

BJC

B Coother/B. Morrow Parcel 25 7/9/13

0720: BC arrives @ Facility to check in and grab radio
0730: BC arrives on-site; gates opened
GEx crew on-site
- Conduct HAS mtg + discuss today's activities. Complete Rig/vehicle inspections.
0815: begin discussions of placement of wells on north side of building contact A. Taylor / URS + contact TWT to reschedule another locate on east side of Fence "supposed UST area"
0930: begin installation of MW-2 (Haz-waste Inc.), also to continue pushing soil borings to Glue Pond Area, for lithology see boring logs
1110: Finish MW-2, + borings near glue pond, to begin soil sampling, decanning equipment + abandoning boreholes
1205: get setup on MW-3 + Geoprobe setup in UST area, break for lunch
1300: return from lunch to begin Geoprobing in Former UST area (east side of building + start drilling MW-3
1415: Finish MW-3, to setup on MW-4

7/9/13 P. Cloudy 90° BM/BC Parcel 25

1500: Start drilling MW-4, For boring log see GEP-4

1615: Finish Geoprobing UST Area + complete MW-4, water level in MW-4 is much higher than expected, to let sit overnight, to begin decon of equipment + abandoning boreholes

1630: start soil sampling

1700: GEX offsite

1720: URS done sampling, offsite to package coolers + ship

1830: ship 2 coolers to Contest Labs

Note: Google Rep onsite from 1500-1530

BS
MW

7/10/13 Cloudy 75° BM/BC Parcel 25

0730: GEX, URS onsite For H+S meeting

0800: gauged MW-4, to pull well up to 14' bgs + set

0825: to begin developing MW-4, to begin Geoprobing AOC #6

0855: Finishing developing MW-4, to develop MW-1

0925: Finishing developing MW-1, to start developing MW-2 + MW-3, + to begin geoprobing in AOC # 8 + 9

1020: Finishing developing MW-2 + MW-3 to begin grouting + making pads for MW-2 - MW-4, which will be completed as stick up wells, Finish w/ soil borings in AOC #9

1105: start advancing borings in AOC #8 + start soil sampling

1220: break for lunch

1305: to complete AOC #8, then to ~~comp~~ collect soil samples from unknown UST area

1510: Finish soil sampling to start gauging + taking water quality on site wells, Finished w/ unknown UST area + Finished completing pads

BC/BM Parcel 25 7/10/13

Sample	Date	Time	
GAST-1	7/9/13	1210	
GAST-2		1220	
Dup-3		1530	(GAST-2 dup)
WWA-1		1610	
HWI-1		1230	
FUST-1		1625	
FUST-2		1630	
FUST-3		1640	
FUST-4		1650	
FUST-5		1700	
UNK-UST-1		1710	
UNK-UST-2		1715	
GEP-3		1140	
GEP-4		1150	
GEP-5		1200	
OPH-1	7/10/13	1200	
WWA-2		1430	
WWA-3		1440	
WWA-4		1500	
WWA-5		1510	
HWI-2		1300	
HWI-3		1320	
HWI-4		1340	
HWI-5		1400	

BC/BM Parcel 25 7/10/13

Sample	Date	Time	Water	Casing above ground
UNK-UST-21	7/10/13	1545		
UNK-UST-22		1600		
UNK-UST-23		1615		
UNK-UST-24		1630		
MW-1	7/10/13	1800	7.22	≈2.65'
MW-2		1735	20.32	≈2.7'
MW-3		1805	20.55	≈2.82'
MW-4		1730	7.94	≈2.55'

Well	Temp	SC	pH	DO	Turbidity
MW-1	22.11	273	7.00	3.82	222.5
MW-2	15.57	138	6.47	2.25	20.4
MW-3	18.74	495	6.67	2.25	55.2
MW-4	19.31	124	5.70	3.69	—

* Purged 3 well volumes or until dry

7/10/13 Cloudy 85° BM/BC Parcel 25

1620: GEX offsite

Note: Dup-1 taken from MW-1 @ 1810

1700: Begin gw sampling activities (see table above)

1805: GW sampling complete; pack coolers & clean up/load vehicles

1815: BC radios security to close gates @ property. BC/BM off-site to ship coolers to Contest Lab via FedEx

80° overcast

B. Costner Parcel 25 7/11/13

0715: Arrive @ facility to pick up radio

0720: Arrive @ subject property; TWT on-site
- Conduct HTS mtg

0730: Begin re-location of AOC 2; GEx on-site
- conduct HTS mtg

~0930: TWT completes re-locate of AOC 2;
- No clear signature from GPR on form NVM tanks.
- Call AT (PM) to discuss + we will place borings in AOC on historical locations based on maps

1200: AOC 2 borings complete; break for lunch

1230: TWT off-site

1300: GEx / UPS back on site to install MW in AOC 2

1320: BC begins soil sampling

1420: Soil Sampling complete; MW-5 in AOC 2 installed to 23 ft bgs
- screen: 13-23
- sand: 11-23 2.5' stickup
- bend: 9-11 * See boring log NVM UST 2
- grout: 0-9

1500: Develop MW-5 (AOC 2); begin site clean-up

7/11/13

Sample	Date	Time
NVM UST-1	7/11/13	1530
NVM-UST-2		1340
NVM UST-3		1350
NVM-UST-4		1400
NVM-UST-5		1410
MW-5	7/11/13	1700

MW-5

pH	Cond	DO	Temp	Turbidity	DTW
8.82	257	1.75	21.14	276.0	17.7 btoc

BJC

80° partly sunny

B. Costner — Parcel 25 — 7/12/13

0715: Pick up radio @ front gate

0720: BC arrives on-site; counts drums

Final Drum Count (Total: 11 drums)

Soil: 8 — * All drums labeled as

Water: 2 — Non-Haz Pending Analysis

PPE: 1

0725: A+D Arrives on site for drum pickup

0730: GEx arrives on-site

- Conduct H+S mtg

0800: TWT arrives on-site; conduct H+S mtg + discuss today's activities

0830: J. Rogers (Google) arrives on-site to sign A+D waste manifest

0845: A+D off-site; GEx pads MW-5 + continues ~~sig~~ site clean-up while BC conducts site walk w/ Mr. Rogers.

~0900: Mr. Rogers off-site

- BC walks site w/ TWT surveyor
- GEx continues site clean up + loading equipment

1130: Guaged all site wells + painted stick up orange for visibility/safety

1145: GEx completes site cleanup; TWT completes site survey

Parcel 25 — 7/12/13

well ID	DTW	TD
MW-1	7.98	12.0
MW-2	20.29	25.0
MW-3	20.54	24.0
MW-4	7.57	12.0
MW-5	17.75	23.0

* DTW btoc

1200: BC radioed Security to lock gate + mobbed to facility to turn in radio

~~1205~~ BC: URS/GEx/TWT off-site

1205: Turned radio in @ main gate; break for lunch

1300: BC mobs back to Charlotte, NC to return equip/rental.

BC

Soil Background Sampling
Parcel 25

M. Stone | B. Costner 8/23/13

0950: arrive @ Lenoir facility to check in
1005: Meet w/ Jon Rogers + discuss sample locations
1015: Mob to subject property; Conduct tailgate safety mtg
1020: Security guard unable to unlock gate; UXS will begin outside fence while they try to get gate opened
1030: Begin sampling BG-1
1050: collected BG-1
1125: Begin sampling BG-2
1140: collect BG-2
1150: Mob back to subject property to await gate being opened; security does not have proper key for lock.
1210: Gate unlocked by security; begin BG-3
1235: Sampled BG-3
1245: UXS checked out w/ security + they are locking gate, UXS off-site back to CLT to ship samples + drop off equip.

Parcel 25

8/23/13

BG-1

Depth	Description	PID
0-1.5	0-0.75 - gravel w/ silt matrix. 0.75-1.5 - Brown, fine sandy SILT, dry, micaceous	
1.5-4.0	Lt brown/white/orange, med-coarse sandy silt, sap w/ some pwr, slightly moist	(0-4) 0.4 ppm

Sampled @ 1050

BG-2

Depth	Description	PID
0-0.5	Topsoil/organics	
0.5-2	Red-brown, silty clay, moist	(0-4)
2-4	Orange-red, silty clay w/ trace fine sand, moist	0.0 ppm

Sampled @ 1140

BG-3

Depth	Description	PID
0-1	gravel	
1-2	Red-brown, fine sandy SILT, dry, micaceous	(0-4)
2-4	Lt brown/red/buff, fine sandy SILT, sap, dry	0.0 ppm

Sampled @ 1235

Caldwell County Mapping

1 inch = 400 feet

This map is prepared for the inventory of real property found within this jurisdiction, and is compiled from recorded deeds, plats, and other public records and data. Users of this map are hereby notified that the aforementioned public primary information sources should be consulted for verification of the information contained on this map. Caldwell County and its mapping and software contractors assume no legal responsibility for the information contained on this map or in this website. This map and information are NOT of land survey quality and are NOT suitable for such use.

— stream

O proposed sampling location

(may be moved based on feasibility) → ● proposed back ground location

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: HRS Corp
Address: 4000 Fairview Rd
Charlotte, NC 28210
Attention: Peter Thibodeau
Project Location: Lenoir, NC
Sampled By: Brandy Costner / Matt Stone

Telephone: 704-202-2468
Project #: 31829188
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ● EMAIL ○ WEBSITE
Fax #:
Email: peter.thibodeau@aecom.com
Format: ● PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

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

Analysis Requested

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection: Beginning Date/Time	Collection: Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	SW 846 6010c Chromium	% solid	# of Containers	** Preservation	***Container Code
										2	I	G
	BG-1	—	8/23/13 1555	—	G	S		X	X	2	I	G
	BG-2	—	8/23/13 1400	—				X	X	2	I	G
	BG-3	—	8/23/13 1215	—				X	X	2	I	G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
3 day TAT

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

Relinquished by: (signature)	Date/Time:
Brandy Costner / HRS	8/23/13 1400
Received by: (signature)	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
○ 5-Day
○ 5-7-Day
○ 10-Day
RUSH †
○ †24-Hr r †48-Hr
○ †72-Hr r †4-Day
† Requires Lab Approval

Detection Limit Requirements
North Carolina
● 2L
○ GWPC
○ SWSL
○ OTHER

Program Information
○ DSCA ○ IHSB Orphaned Landfill
○ SWS Landfill ○ UST ○ REC
○ Other: _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

FedEx

1555 RANKIN LAKE RD
GASTONIA, NC 28052

Location:	MRNCE
Device ID:	MRNCE-POS1
Employee:	69657
Transaction:	82093897902

PRIORITY OVERNIGHT

802663914842 20.85 lb (S) 88.69
SDR Delivery

Scheduled Delivery Date 08/24/2013

Shipment subtotal: 88.69

Total Due: 88.69

FedEx Account: 88.69
*****4812

M = Weight entered manually
S = Weight read from scale
T = Taxable item

Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: fedex.com
Or call 1.800.GoFedEx
1.800.463.3339

August 23, 2013 2:06:58 PM

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8026 6391 4842

Form ID No. 0200

Sender's Copy

1 From *Please print and press hard.*

Date 7/23/2013 Sender's FedEx Account Number 3006 2481-2

Sender's Name Matt Stone Phone (704-716-0756)

Company URS

Address 6000 Fairview Rd Suite 200 Dept./Floor/Suite/Room

City Charlotte State NC ZIP 28210

2 Your Internal Billing Reference OPTIONAL
First 24 characters will appear on invoice.

3 To

Recipient's Name Phone (413-525-2332)

Company Con-Test Lab

Address 39 Spruce St. Dept./Floor/Suite/Room
We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address
Use this line for the HOLD location address or for continuation of your shipping address.

City East Longmeadow State MA ZIP 01028

☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Easy new Peel-and-Stick airbill. No pouch needed.
Apply airbill directly to your package. See directions on back.

4 Express Package Service *To most locations.
NOTE: Service order has changed. Please select carefully.
Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

- ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

- ☐ FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.
- ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging *Declared value limit $500.

☐ FedEx Envelope* ☐ FedEx Pak* ☐ FedEx Box ☐ FedEx Tube ☒ Other

6 Special Handling and Delivery Signature Options

☒ SATURDAY Delivery — NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

☒ No Signature Required — Package may be left without obtaining a signature for delivery.
☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?
One box must be checked.

☒ No ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. ☐ Dry Ice Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. ☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

☒ Sender Acct. No. in Section 1 will be billed. ☐ Recipient ☐ Third Party ☐ Credit Card ☐ Cash/Check

FedEx Acct. No. Credit Card No. Exp. Date

Total Packages 1 Total Weight 2 lbs. Total Declared Value† $ 100.00 .00

†Our liability is limited to US$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

644

Rev. Date 1/12 • Part #167002 • ©2012 FedEx • PRINTED IN U.S.A. SRF

APPENDIX C

LABORATORY REPORTS AND CHAIN OF CUSTODY

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

July 11, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0116

Enclosed are results of analyses for samples received by the laboratory on July 3, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/11/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0116

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

PROJECT LOCATION: Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TP-1	13G0116-01	Soil		SM 2540G	
				SW-846 8082A	
TP-2	13G0116-02	Soil		SM 2540G	
				SW-846 8082A	
TP-3	13G0116-03	Soil		SM 2540G	
				SW-846 8082A	
Dup-1	13G0116-04	Soil		SM 2540G	
				SW-846 8082A	

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

CASE NARRATIVE SUMMARY

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

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

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Lenoir, NC | Sample Description: | Work Order: 13G0116

Date Received: 7/3/2013

Field Sample #: TP-1 | Sampled: 7/2/2013 09:50

Sample ID: 13G0116-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.038	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB
Aroclor-1221 [1]	ND	0.12	0.12	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB
Aroclor-1232 [1]	ND	0.12	0.076	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB
Aroclor-1242 [1]	ND	0.12	0.062	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB
Aroclor-1248 [1]	ND	0.12	0.071	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB
Aroclor-1254 [1]	ND	0.12	0.052	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB
Aroclor-1260 [1]	ND	0.12	0.058	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB
Aroclor-1262 [1]	ND	0.12	0.050	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB
Aroclor-1268 [1]	ND	0.12	0.073	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	69.8	30-150		7/8/13 17:27
Decachlorobiphenyl [2]	64.7	30-150		7/8/13 17:27
Tetrachloro-m-xylene [1]	69.4	30-150		7/8/13 17:27
Tetrachloro-m-xylene [2]	69.0	30-150		7/8/13 17:27

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

Project Location: Lenoir, NC
Sample Description:
Work Order: 13G0116

Date Received: 7/3/2013

Field Sample #: TP-1
Sampled: 7/2/2013 09:50

Sample ID: 13G0116-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.1		% Wt	1		SM 2540G	7/9/13	7/10/13 7:27	MLA

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

Project Location: Lenoir, NC
Sample Description:
Work Order: 13G0116
Date Received: 7/3/2013
Field Sample #: TP-2
Sampled: 7/2/2013 09:55
Sample ID: 13G0116-02
Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.038	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB
Aroclor-1221 [1]	ND	0.12	0.12	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB
Aroclor-1232 [1]	ND	0.12	0.075	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB
Aroclor-1242 [1]	ND	0.12	0.062	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB
Aroclor-1248 [1]	ND	0.12	0.070	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB
Aroclor-1254 [1]	ND	0.12	0.052	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB
Aroclor-1260 [1]	ND	0.12	0.058	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB
Aroclor-1262 [1]	ND	0.12	0.050	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB
Aroclor-1268 [1]	ND	0.12	0.073	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.3	30-150		7/8/13 17:39
Decachlorobiphenyl [2]	75.6	30-150		7/8/13 17:39
Tetrachloro-m-xylene [1]	80.4	30-150		7/8/13 17:39
Tetrachloro-m-xylene [2]	80.3	30-150		7/8/13 17:39

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

Project Location: Lenoir, NC
Sample Description:
Work Order: 13G0116

Date Received: 7/3/2013

Field Sample #: TP-2
Sampled: 7/2/2013 09:55

Sample ID: 13G0116-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	7/9/13	7/10/13 7:27	MLA

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

Project Location: Lenoir, NC
Sample Description:
Work Order: 13G0116

Date Received: 7/3/2013

Field Sample #: TP-3
Sampled: 7/2/2013 10:00

Sample ID: 13G0116-03

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.037	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB
Aroclor-1221 [1]	ND	0.12	0.12	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB
Aroclor-1232 [1]	ND	0.12	0.075	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB
Aroclor-1242 [1]	ND	0.12	0.062	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB
Aroclor-1248 [1]	ND	0.12	0.070	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB
Aroclor-1254 [1]	ND	0.12	0.052	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB
Aroclor-1260 [1]	ND	0.12	0.058	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB
Aroclor-1262 [1]	ND	0.12	0.050	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB
Aroclor-1268 [1]	ND	0.12	0.073	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 17:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	79.8	30-150		7/8/13 17:52
Decachlorobiphenyl [2]	73.7	30-150		7/8/13 17:52
Tetrachloro-m-xylene [1]	77.3	30-150		7/8/13 17:52
Tetrachloro-m-xylene [2]	77.4	30-150		7/8/13 17:52

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

Project Location: Lenoir, NC
Sample Description:
Work Order: 13G0116

Date Received: 7/3/2013

Field Sample #: TP-3
Sampled: 7/2/2013 10:00

Sample ID: 13G0116-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.7		% Wt	1		SM 2540G	7/9/13	7/10/13 7:27	MLA

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

Project Location: Lenoir, NC
Sample Description:
Work Order: 13G0116

Date Received: 7/3/2013

Field Sample #: Dup-1
Sampled: 7/2/2013 00:00

Sample ID: 13G0116-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	0.037	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB
Aroclor-1221 [1]	ND	0.12	0.12	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB
Aroclor-1232 [1]	ND	0.12	0.074	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB
Aroclor-1242 [1]	ND	0.12	0.060	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB
Aroclor-1248 [1]	ND	0.12	0.069	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB
Aroclor-1254 [1]	1.2	0.12	0.051	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB
Aroclor-1260 [1]	ND	0.12	0.057	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB
Aroclor-1262 [1]	ND	0.12	0.049	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB
Aroclor-1268 [1]	ND	0.12	0.071	mg/Kg dry	5		SW-846 8082A	7/5/13	7/8/13 18:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	41.0	30-150		7/8/13 18:04
Decachlorobiphenyl [2]	38.5	30-150		7/8/13 18:04
Tetrachloro-m-xylene [1]	44.0	30-150		7/8/13 18:04
Tetrachloro-m-xylene [2]	43.3	30-150		7/8/13 18:04

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

Project Location: Lenoir, NC
Sample Description:
Work Order: 13G0116

Date Received: 7/3/2013

Field Sample #: Dup-1
Sampled: 7/2/2013 00:00

Sample ID: 13G0116-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	7/9/13	7/10/13 7:27	MLA

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0116-01 [TP-1]	B076356	07/09/13
13G0116-02 [TP-2]	B076356	07/09/13
13G0116-03 [TP-3]	B076356	07/09/13
13G0116-04 [Dup-1]	B076356	07/09/13

Prep Method: SW-846 3546-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0116-01 [TP-1]	B076237	10.0	10.0	07/05/13
13G0116-02 [TP-2]	B076237	10.0	10.0	07/05/13
13G0116-03 [TP-3]	B076237	10.0	10.0	07/05/13
13G0116-04 [Dup-1]	B076237	10.0	10.0	07/05/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076237 - SW-846 3546										
Blank (B076237-BLK1)				Prepared: 07/05/13 Analyzed: 07/08/13						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.161*		mg/Kg wet	0.200		80.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.172*		mg/Kg wet	0.200		86.2	30-150			
LCS (B076237-BS1)				Prepared: 07/05/13 Analyzed: 07/08/13						
Aroclor-1016	0.15	0.10	mg/Kg wet	0.200		72.7	40-140			
Aroclor-1016 [2C]	0.15	0.10	mg/Kg wet	0.200		73.4	40-140			
Aroclor-1260	0.14	0.10	mg/Kg wet	0.200		71.1	40-140			
Aroclor-1260 [2C]	0.14	0.10	mg/Kg wet	0.200		70.9	40-140			
Surrogate: Decachlorobiphenyl	*0.150*		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.134*		mg/Kg wet	0.200		67.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.145*		mg/Kg wet	0.200		72.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		71.8	30-150			
LCS Dup (B076237-BSD1)				Prepared: 07/05/13 Analyzed: 07/08/13						
Aroclor-1016	0.15	0.10	mg/Kg wet	0.200		75.7	40-140	4.00	30	
Aroclor-1016 [2C]	0.15	0.10	mg/Kg wet	0.200		76.3	40-140	3.78	30	
Aroclor-1260	0.15	0.10	mg/Kg wet	0.200		72.8	40-140	2.36	30	
Aroclor-1260 [2C]	0.15	0.10	mg/Kg wet	0.200		73.1	40-140	3.04	30	
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg wet	0.200		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.145*		mg/Kg wet	0.200		72.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg wet	0.200		78.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.157*		mg/Kg wet	0.200		78.5	30-150			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076356 - % Solids										
Duplicate (B076356-DUP1)		**Source: 13G0116-01**		Prepared: 07/09/13 Analyzed: 07/10/13						
% Solids	84.0		% Wt		82.1			2.29	20	

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

ANALYST

PEB	Paula E. Blakeborough
OJS	Olga J. Szymura
MLA	Mathew L. Amann
LAW	Lisa A. Worthington
JMB	John M. Beane
CEC	Christian E. Collins
AJA	Austin J. Anghilante

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0116

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Transformer Pad
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2So4	None	PCBs (SW-846 8082A)	Comments
01	TP-1	7/2/13	0950	BC	S	1					1	x	
02	TP-2		0955		S	1					1	x	
03	TP-3		1000		S	1					1	x	
04	Dup-1		—		S	1					1	x	Not full 8oz - Not enough volume
					S	0							
					S	0							
					S	0							
					S	0							
					S	0							

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

Federal Express Air Bill No.: 803043472210

Sample Custody must be documented below each time samples change possesion, including courier delivery. 3

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Brandy Costner	7/2/13 - 1630	1 Fed-X	2	7-3-13 9:18	2 Paula Blakeborough
3		3	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice: ☐

Page 17 of 19 13G0116_1 Contest_Final_IHSB 07 11 13 1229 07/11/13 12:29:25

FedEx

803285755078

Ship (P/U) date :
Tues 7/02/2013 5:53 pm
RAL US

Delivered
Signed for by. F WILSON

Actual delivery :
Wed 7/03/2013 9:18 am
MA US

Travel History

Date/Time	Activity	Location
- 7/03/2013	- Wednesday	
9:18 am	Delivered	MA
8:11 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:13 am	At local FedEx facility	WINDSOR LOCKS, CT
6:24 am	At destination sort facility	EAST GRANBY, CT
4:52 am	Departed FedEx location	INDIANAPOLIS, IN
12:02 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 7/02/2013	- Tuesday	
8:50 pm	Left FedEx origin facility	RALEIGH, NC
5:53 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

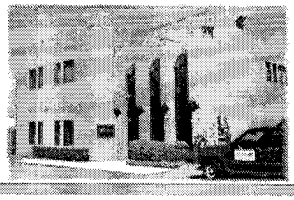
Local Scan Time

Shipment Facts

Tracking number	803285755078	**Service**	FedEx Priority Overnight
Weight	9 lbs	**Dimensions**	12x11x9 in.
Delivered To	Receptionist/Front Desk	**Total pieces**	1
Total shipment weight	9 lbs / 4.1 kgs	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7·3·13

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No **No CoC Included**
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

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

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Log in

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

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz amber/clear jar	4
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below			PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments:

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

Time and Date Frozen:

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

July 23, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Glue Evap Pond, Lenoir, NC
Client Job Number:
Project Number: 31829188.0001
Laboratory Work Order Number: 13G0261

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/23/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.0001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0261

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

PROJECT LOCATION: Glue Evap Pond, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
GEP-1	13G0261-01	Soil		SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8315	
GEP-2	13G0261-02	Soil		SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8315	

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

CASE NARRATIVE SUMMARY

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

SW-846 8260B

Qualifications:

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

Analyte & Samples(s) Qualified:

1,2-Dichloroethane-d4

13G0261-01[GEP-1], 13G0261-02[GEP-2]

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

13G0261-01[GEP-1], 13G0261-02[GEP-2], B076479-BLK1, B076479-BS1, B076479-BSD1

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

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evap Pond, Lenoir, NC | Sample Description: | Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-1 | Sampled: 7/8/2013 17:15

Sample ID: 13G0261-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.097	0.023	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Benzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Bromochloromethane	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Bromodichloromethane	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Bromoform	ND	0.0019	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Bromomethane	ND	0.0097	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Carbon Disulfide	ND	0.0058	0.0032	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Carbon Tetrachloride	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Chlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Chlorodibromomethane	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Chloroethane	ND	0.019	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Chloroform	ND	0.0039	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Chloromethane	ND	0.0097	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Cyclohexane	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0019	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,2-Dibromoethane (EDB)	ND	0.00097	0.00097	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,2-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,3-Dichlorobenzene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,4-Dichlorobenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.019	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,1-Dichloroethane	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,2-Dichloroethane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
cis-1,2-Dichloroethylene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
trans-1,2-Dichloroethylene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,2-Dichloropropane	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
cis-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
trans-1,3-Dichloropropene	ND	0.00097	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,4-Dioxane	ND	0.097	0.056	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Ethylbenzene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
2-Hexanone (MBK)	ND	0.019	0.011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Isopropylbenzene (Cumene)	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Methyl Acetate	ND	0.0019	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Methyl Cyclohexane	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Methylene Chloride	ND	0.019	0.0069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.019	0.0073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Styrene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,1,2,2-Tetrachloroethane	ND	0.00097	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Tetrachloroethylene	ND	0.0019	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Toluene	ND	0.0019	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,2,3-Trichlorobenzene	ND	0.0019	0.00058	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,2,4-Trichlorobenzene	ND	0.0039	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evap Pond, Lenoir, NC | Sample Description: | Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-1 | Sampled: 7/8/2013 17:15

Sample ID: 13G0261-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0019	0.00097	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,1,2-Trichloroethane	ND	0.0019	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Trichloroethylene	ND	0.0019	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0097	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
Vinyl Chloride	ND	0.0097	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
m+p Xylene	ND	0.0039	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF
o-Xylene	ND	0.0019	0.00068	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:14	MFF

Surrogates	% Recovery		Recovery Limits	Flag	
1,2-Dichloroethane-d4	**134**	*	70-130	S-17	7/10/13 16:14
Toluene-d8	101		70-130		7/10/13 16:14
4-Bromofluorobenzene	82.0		70-130		7/10/13 16:14

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

Project Location: Glue Evap Pond, Lenoir, NC
Sample Description:
Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-1
Sampled: 7/8/2013 17:15

Sample ID: 13G0261-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 16:14	MFF

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

Project Location: Glue Evap Pond, Lenoir, NC
Sample Description:
Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-1
Sampled: 7/8/2013 17:15

Sample ID: 13G0261-01

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.67	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 15:46	JMP

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

Project Location: Glue Evap Pond, Lenoir, NC
Sample Description:
Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-1
Sampled: 7/8/2013 17:15

Sample ID: 13G0261-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evap Pond, Lenoir, NC | Sample Description: | Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-2 | Sampled: 7/8/2013 17:30

Sample ID: 13G0261-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.084	0.020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Benzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Bromochloromethane	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Bromodichloromethane	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Bromoform	ND	0.0017	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Bromomethane	ND	0.0084	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
2-Butanone (MEK)	ND	0.034	0.015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Carbon Disulfide	ND	0.0051	0.0028	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Carbon Tetrachloride	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Chlorobenzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Chlorodibromomethane	ND	0.00084	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Chloroethane	ND	0.017	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Chloroform	ND	0.0034	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Chloromethane	ND	0.0084	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Cyclohexane	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0017	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,2-Dibromoethane (EDB)	ND	0.00084	0.00084	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,2-Dichlorobenzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,3-Dichlorobenzene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,4-Dichlorobenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.017	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,1-Dichloroethane	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,2-Dichloroethane	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,1-Dichloroethylene	ND	0.0034	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
cis-1,2-Dichloroethylene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
trans-1,2-Dichloroethylene	ND	0.0017	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,2-Dichloropropane	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
cis-1,3-Dichloropropene	ND	0.00084	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
trans-1,3-Dichloropropene	ND	0.00084	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,4-Dioxane	ND	0.084	0.049	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Ethylbenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
2-Hexanone (MBK)	ND	0.017	0.0092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Isopropylbenzene (Cumene)	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Methyl Acetate	ND	0.0017	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0034	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Methyl Cyclohexane	ND	0.0017	0.00084	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Methylene Chloride	ND	0.017	0.0060	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.017	0.0064	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Styrene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.00084	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Tetrachloroethylene	ND	0.0017	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Toluene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,2,3-Trichlorobenzene	ND	0.0017	0.00051	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,2,4-Trichlorobenzene	ND	0.0017	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evap Pond, Lenoir, NC | Sample Description: | Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-2 | Sampled: 7/8/2013 17:30

Sample ID: 13G0261-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0017	0.00084	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,1,2-Trichloroethane	ND	0.0017	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Trichloroethylene	ND	0.0017	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0084	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0084	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
Vinyl Chloride	ND	0.0084	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
m+p Xylene	ND	0.0034	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF
o-Xylene	ND	0.0017	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**131** *	70-130	S-17	7/10/13 16:42
Toluene-d8	101	70-130		7/10/13 16:42
4-Bromofluorobenzene	85.2	70-130		7/10/13 16:42

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

Project Location: Glue Evap Pond, Lenoir, NC
Sample Description:
Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-2
Sampled: 7/8/2013 17:30

Sample ID: 13G0261-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 16:42	MFF

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

Project Location: Glue Evap Pond, Lenoir, NC
Sample Description:
Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-2
Sampled: 7/8/2013 17:30

Sample ID: 13G0261-02

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.1	0.61	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 15:58	JMP

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evap Pond, Lenoir, NC | Sample Description: | Work Order: 13G0261

Date Received: 7/9/2013

Field Sample #: GEP-2 | Sampled: 7/8/2013 17:30

Sample ID: 13G0261-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.9		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0261-01 [GEP-1]	B076932	07/17/13
13G0261-02 [GEP-2]	B076932	07/17/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0261-01 [GEP-1]	B076479	6.13	10.0	07/10/13
13G0261-02 [GEP-2]	B076479	6.60	10.0	07/10/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0261-01 [GEP-1]	B076464	5.08	25.0	07/10/13
13G0261-02 [GEP-2]	B076464	5.24	25.0	07/10/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076479 - SW-846 5035											
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13							
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0557*		mg/Kg wet	0.0500		111	70-130				
Surrogate: Toluene-d8	*0.0490*		mg/Kg wet	0.0500		97.9	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0434*		mg/Kg wet	0.0500		86.8	70-130				
LCS (B076479-BS1)				Prepared & Analyzed: 07/10/13							
Acetone	0.235	0.10	mg/Kg wet	0.200		117	70-160		25		†
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130		25		
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
Bromodichloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130		25		
Bromoform	0.0145	0.0020	mg/Kg wet	0.0200		72.7	70-130		25		
Bromomethane	0.0113	0.010	mg/Kg wet	0.0200		56.5	40-130		25		†
2-Butanone (MEK)	0.188	0.040	mg/Kg wet	0.200		93.8	70-160		25		†
Carbon Disulfide	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130		25		
Carbon Tetrachloride	0.0167	0.0020	mg/Kg wet	0.0200		83.6	70-130		25		
Chlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130		25		
Chlorodibromomethane	0.0172	0.0010	mg/Kg wet	0.0200		85.9	70-130		25		
Chloroethane	0.0199	0.020	mg/Kg wet	0.0200		99.7	70-130		25	J	
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		96.9	70-130		25		
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.4	70-130		25		
Cyclohexane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0169	0.0020	mg/Kg wet	0.0200		84.3	70-130		25		
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130		25		
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130		25		
1,4-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.7	40-160		25	J	†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130		25		
1,2-Dichloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130		25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130		25		
cis-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130		25		
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130		25		
cis-1,3-Dichloropropene	0.0165	0.0010	mg/Kg wet	0.0200		82.5	70-130		25		
trans-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.3	70-130		25		
1,4-Dioxane	0.205	0.10	mg/Kg wet	0.200		102	40-160		50	V-16	†
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130		25		
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.6	70-160		25		†
Isopropylbenzene (Cumene)	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
Methyl Acetate	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0203	0.0040	mg/Kg wet	0.0200		102	70-130		25		
Methyl Cyclohexane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
Methylene Chloride	0.0217	0.020	mg/Kg wet	0.0200		108	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.195	0.020	mg/Kg wet	0.200		97.7	70-160		25		†
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130		25		
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130		25		
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130		25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130		25		
1,2,4-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130		25		
1,1,1-Trichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130		25		
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076479 - SW-846 5035											
LCS (B076479-BS1)				Prepared & Analyzed: 07/10/13							
Trichloroethylene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130		25		
Vinyl Chloride	0.0158	0.010	mg/Kg wet	0.0200		78.9	40-130		25		†
m+p Xylene	0.0371	0.0040	mg/Kg wet	0.0400		92.7	70-130		25		
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0519*		mg/Kg wet	0.0500		104	70-130				
Surrogate: Toluene-d8	*0.0507*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0460*		mg/Kg wet	0.0500		92.0	70-130				
LCS Dup (B076479-BSD1)				Prepared & Analyzed: 07/10/13							
Acetone	0.224	0.10	mg/Kg wet	0.200		112	70-160	4.88	25		†
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.61	25		
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	0.798	25		
Bromodichloromethane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	0.551	25		
Bromoform	0.0140	0.0020	mg/Kg wet	0.0200		70.2	70-130	3.50	25		
Bromomethane	0.0134	0.010	mg/Kg wet	0.0200		66.8	40-130	16.7	25		†
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		93.2	70-160	0.663	25		†
Carbon Disulfide	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130	0.00	25		
Carbon Tetrachloride	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130	1.07	25		
Chlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	0.531	25		
Chlorodibromomethane	0.0172	0.0010	mg/Kg wet	0.0200		86.2	70-130	0.349	25		
Chloroethane	0.0206	0.020	mg/Kg wet	0.0200		103	70-130	3.26	25		
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.5	70-130	0.414	25		
Chloromethane	0.0151	0.010	mg/Kg wet	0.0200		75.3	70-130	1.20	25		
Cyclohexane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	2.07	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130	1.53	25		
1,2-Dibromoethane (EDB)	0.0197	0.0010	mg/Kg wet	0.0200		98.7	70-130	0.508	25		
1,2-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	0.815	25		
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	0.704	25		
1,4-Dichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	0.326	25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.3	40-160	0.696	25	J	†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.847	25		
1,2-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	1.10	25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.00	25		
cis-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	1.19	25		
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.80	25		
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	1.23	25		
cis-1,3-Dichloropropene	0.0167	0.0010	mg/Kg wet	0.0200		83.7	70-130	1.44	25		
trans-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130	0.890	25		
1,4-Dioxane	0.197	0.10	mg/Kg wet	0.200		98.7	40-160	3.79	50	V-16	† ‡
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.547	25		
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.3	70-160	0.349	25		†
Isopropylbenzene (Cumene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	0.109	25		
Methyl Acetate	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.612	25		
Methyl tert-Butyl Ether (MTBE)	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	2.33	25		
Methyl Cyclohexane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.71	25		
Methylene Chloride	0.0214	0.020	mg/Kg wet	0.0200		107	40-160	1.02	25		†
4-Methyl-2-pentanone (MIBK)	0.196	0.020	mg/Kg wet	0.200		97.8	70-160	0.112	25		†
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.440	25		
1,1,2,2-Tetrachloroethane	0.0189	0.0010	mg/Kg wet	0.0200		94.7	70-130	0.841	25		
Tetrachloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130	1.33	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
LCS Dup (B076479-BSD1)				Prepared & Analyzed: 07/10/13						
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	1.13	25	
1,2,3-Trichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130	0.979	25	
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130	1.85	25	
1,1,1-Trichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130	1.48	25	
1,1,2-Trichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	1.29	25	
Trichloroethylene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130	3.52	25	
Trichlorofluoromethane (Freon 11)	0.0205	0.010	mg/Kg wet	0.0200		102	70-130	0.778	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0227	0.010	mg/Kg wet	0.0200		114	70-130	1.33	25	
Vinyl Chloride	0.0162	0.010	mg/Kg wet	0.0200		80.9	40-130	2.50	25	†
m+p Xylene	0.0370	0.0040	mg/Kg wet	0.0400		92.6	70-130	0.162	25	
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	1.40	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0520*		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	*0.0501*		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0455*		mg/Kg wet	0.0500		90.9	70-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13						
No TICs Found	0.0		mg/Kg wet							

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

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076464 - SW-846 8315										
Blank (B076464-BLK1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Formaldehyde	ND	0.99	mg/Kg wet							
LCS (B076464-BS1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Formaldehyde	5.39	0.99	mg/Kg wet	4.93		110	39-153		40	

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

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

ANALYST

SMC	Steven M. Case
RH	Robert H. Witherell
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
JMP	Jessica M. Pace
CEC	Christian E. Collins
ALB	Aaron L. Benoit

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methyl Cyclohexane	NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8315 in Soil	
Formaldehyde	NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0261

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Glue Evap Pond
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	TCL VOC & 10 largest non-target peaks (TICs) (SW-846 8260B)	Formaldehyde (SW-846 8315A)						Comments
	~~Trip Blank~~		-	Lab	S	3	2	1				x							Bad
-01	GEP-1	7/8/13	1915	BM	S	4	2	1			1	x	x						
-02	GEP-2	↓	1930	BM	S	4	2	1			1	x	x						
					S	4	2	1			1	x	x						
					S	4	2	1			1	x	x						
					S	4	2	1			1	x	x						
					S	4	2	1			1	x	x						
					S	0													
					S	0													

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BM	7/8/13 1830	1 Fed-X	2		2
3	7/9/13 0949	3 J.C	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice: ☐

07-09-13 11:23 IN

FedEx

875382506890

Ship (P/U) date :
Mon 7/08/2013 4:13 pm
VALLEY COTTAGE, NY US

Delivered
Signed for by: P BLAKE

Actual delivery :
Tues 7/09/2013 9:49 am
MA US

Travel History

Date/Time	Activity	Location
- 7/09/2013	- Tuesday	
9:49 am	Delivered	MA
8:04 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:11 am	At local FedEx facility	WINDSOR LOCKS, CT
3:38 am	Departed FedEx location	NEWARK, NJ
- 7/08/2013	- Monday	
11:10 pm	Arrived at FedEx location	NEWARK, NJ
9:17 pm	Left FedEx origin facility	RONKONKOMA, NY
4:13 pm	Picked up	RONKONKOMA, NY

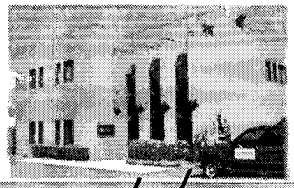
Local Scan Time

Shipment Facts

Tracking number	875382506890	**Service**	FedEx Priority Overnight
Weight	43 lbs	**Dimensions**	18x14x10 in
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	43 lbs / 19.5 kgs	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** CFC **DATE:** 7/9/13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

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

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☐

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

Temperature °C by Temp blank 2 Temperature °C by Temp gun _____

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

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

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

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

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

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	2
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	6	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water 4
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-09-13 11:29 IN

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

July 23, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: HW Storage/Satellite Storage, Lenoir, NC
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0266

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/23/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0266

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

PROJECT LOCATION: HW Storage/Satellite Storage, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
FS-4	13G0266-01	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	

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

CASE NARRATIVE SUMMARY

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

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

SW-846 6010C

Qualifications:

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Lead, Zinc

13G0266-01[FS-4]

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Antimony

13G0266-01[FS-4]

SW-846 8260B

Qualifications:

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

13G0266-01[FS-4], B076479-BLK1, B076479-BS1, B076479-BSD1

SW-846 8270D

Qualifications:

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

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

13G0266-01[FS-4], B076432-BLK1, B076432-BS1, B076432-BSD1

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

Analyte & Samples(s) Qualified:

Benzaldehyde, Benzo(g,h,i)perylene

B076432-BSD1, B076432-BS1

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

Analyte & Samples(s) Qualified:

3/4-Methylphenol, 4-Nitrophenol, Acetophenone, Benzo(b)fluoranthene, Bis(2-chloroisopropyl)ether, Di-n-octylphthalate, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine

13G0266-01[FS-4], B076432-BLK1, B076432-BS1, B076432-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076432-BS1, B076432-BSD1

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

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076432-BLK1

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

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
2-Butanone (MEK)	ND	0.047	0.020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Carbon Disulfide	ND	0.0070	0.0038	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Chloroform	ND	0.0047	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Cyclohexane	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,1-Dichloroethylene	ND	0.0047	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Methyl Acetate	ND	0.0023	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Methylene Chloride	ND	0.023	0.0083	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,2,4-Trichlorobenzene	ND	0.0047	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 11:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	130	70-130		7/10/13 11:31
Toluene-d8	99.0	70-130		7/10/13 11:31
4-Bromofluorobenzene	86.5	70-130		7/10/13 11:31

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 11:31	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Acetophenone	ND	0.41	0.098	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Bis(2-Ethylhexyl)phthalate	0.20	0.41	0.091	mg/Kg dry	1	J	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2-Nitroaniline	ND	0.41	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR
Atrazine	ND	0.80	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:23	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	49.2	30-130		7/21/13 14:23
Phenol-d6	49.6	30-130		7/21/13 14:23
Nitrobenzene-d5	52.0	30-130		7/21/13 14:23
2-Fluorobiphenyl	48.2	30-130		7/21/13 14:23
2,4,6-Tribromophenol	70.7	30-130		7/21/13 14:23
p-Terphenyl-d14	66.1	30-130		7/21/13 14:23

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.96	mg/Kg dry	1410140	14.554	1	000301-02-0	SW-846 8270D	7/10/13	7/21/13 14:23	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.67	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 16:09	JMP

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.8	4.7	mg/Kg dry	2	DL-04	SW-846 6010C	7/10/13	7/15/13 21:27	KSH
Arsenic	ND	2.9	1.1	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Beryllium	ND	0.29	0.047	mg/Kg dry	1		SW-846 6010C	7/10/13	7/12/13 11:55	OP
Cadmium	0.59	0.29	0.17	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Chromium	21	0.58	0.15	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Copper	25	0.58	0.44	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Lead	9.8	0.87	0.40	mg/Kg dry	1	B-07	SW-846 6010C	7/10/13	7/11/13 17:50	OP
Manganese	630	0.58	0.18	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Mercury	0.0084	0.030	0.0019	mg/Kg dry	1	J	SW-846 7471B	7/9/13	7/10/13 13:13	SAJ
Nickel	7.3	0.58	0.14	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Selenium	ND	5.8	0.90	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Silver	ND	0.58	0.51	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Thallium	ND	2.9	0.97	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:50	OP
Zinc	46	1.2	0.30	mg/Kg dry	1	B-07	SW-846 6010C	7/10/13	7/11/13 17:50	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0266

Date Received: 7/9/2013

Field Sample #: FS-4 Sampled: 7/8/2013 16:00

Sample ID: 13G0266-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0266-01 [FS-4]	B076919	07/17/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0266-01 [FS-4]	B076491	1.03	50.0	07/10/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0266-01 [FS-4]	B076415	0.607	50.0	07/09/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0266-01 [FS-4]	B076479	5.18	10.0	07/10/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0266-01 [FS-4]	B076432	30.2	1.00	07/10/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0266-01 [FS-4]	B076464	5.16	25.0	07/10/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076479 - SW-846 5035											
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13							
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0557*		mg/Kg wet	0.0500		111	70-130				
Surrogate: Toluene-d8	*0.0490*		mg/Kg wet	0.0500		97.9	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0434*		mg/Kg wet	0.0500		86.8	70-130				
LCS (B076479-BS1)				Prepared & Analyzed: 07/10/13							
Acetone	0.235	0.10	mg/Kg wet	0.200		117	70-160		25		†
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130		25		
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
Bromodichloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130		25		
Bromoform	0.0145	0.0020	mg/Kg wet	0.0200		72.7	70-130		25		
Bromomethane	0.0113	0.010	mg/Kg wet	0.0200		56.5	40-130		25		†
2-Butanone (MEK)	0.188	0.040	mg/Kg wet	0.200		93.8	70-160		25		†
Carbon Disulfide	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130		25		
Carbon Tetrachloride	0.0167	0.0020	mg/Kg wet	0.0200		83.6	70-130		25		
Chlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130		25		
Chlorodibromomethane	0.0172	0.0010	mg/Kg wet	0.0200		85.9	70-130		25		
Chloroethane	0.0199	0.020	mg/Kg wet	0.0200		99.7	70-130		25	J	
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		96.9	70-130		25		
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.4	70-130		25		
Cyclohexane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0169	0.0020	mg/Kg wet	0.0200		84.3	70-130		25		
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130		25		
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130		25		
1,4-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.7	40-160		25	J	†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130		25		
1,2-Dichloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130		25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130		25		
cis-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130		25		
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130		25		
cis-1,3-Dichloropropene	0.0165	0.0010	mg/Kg wet	0.0200		82.5	70-130		25		
trans-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.3	70-130		25		
1,4-Dioxane	0.205	0.10	mg/Kg wet	0.200		102	40-160		50	V-16	†
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130		25		
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.6	70-160		25		†
Isopropylbenzene (Cumene)	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
Methyl Acetate	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0203	0.0040	mg/Kg wet	0.0200		102	70-130		25		
Methyl Cyclohexane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
Methylene Chloride	0.0217	0.020	mg/Kg wet	0.0200		108	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.195	0.020	mg/Kg wet	0.200		97.7	70-160		25		†
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130		25		
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130		25		
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130		25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130		25		
1,2,4-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130		25		
1,1,1-Trichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130		25		
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076479 - SW-846 5035											
LCS (B076479-BS1)				Prepared & Analyzed: 07/10/13							
Trichloroethylene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130		25		
Vinyl Chloride	0.0158	0.010	mg/Kg wet	0.0200		78.9	40-130		25		†
m+p Xylene	0.0371	0.0040	mg/Kg wet	0.0400		92.7	70-130		25		
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0519*		mg/Kg wet	0.0500		104	70-130				
Surrogate: Toluene-d8	*0.0507*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0460*		mg/Kg wet	0.0500		92.0	70-130				
LCS Dup (B076479-BSD1)				Prepared & Analyzed: 07/10/13							
Acetone	0.224	0.10	mg/Kg wet	0.200		112	70-160	4.88	25		†
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.61	25		
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	0.798	25		
Bromodichloromethane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	0.551	25		
Bromoform	0.0140	0.0020	mg/Kg wet	0.0200		70.2	70-130	3.50	25		
Bromomethane	0.0134	0.010	mg/Kg wet	0.0200		66.8	40-130	16.7	25		†
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		93.2	70-160	0.663	25		†
Carbon Disulfide	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130	0.00	25		
Carbon Tetrachloride	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130	1.07	25		
Chlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	0.531	25		
Chlorodibromomethane	0.0172	0.0010	mg/Kg wet	0.0200		86.2	70-130	0.349	25		
Chloroethane	0.0206	0.020	mg/Kg wet	0.0200		103	70-130	3.26	25		
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.5	70-130	0.414	25		
Chloromethane	0.0151	0.010	mg/Kg wet	0.0200		75.3	70-130	1.20	25		
Cyclohexane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	2.07	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130	1.53	25		
1,2-Dibromoethane (EDB)	0.0197	0.0010	mg/Kg wet	0.0200		98.7	70-130	0.508	25		
1,2-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	0.815	25		
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	0.704	25		
1,4-Dichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	0.326	25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.3	40-160	0.696	25	J	†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.847	25		
1,2-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	1.10	25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.00	25		
cis-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	1.19	25		
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.80	25		
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	1.23	25		
cis-1,3-Dichloropropene	0.0167	0.0010	mg/Kg wet	0.0200		83.7	70-130	1.44	25		
trans-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130	0.890	25		
1,4-Dioxane	0.197	0.10	mg/Kg wet	0.200		98.7	40-160	3.79	50	V-16	† ‡
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.547	25		
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.3	70-160	0.349	25		†
Isopropylbenzene (Cumene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	0.109	25		
Methyl Acetate	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.612	25		
Methyl tert-Butyl Ether (MTBE)	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	2.33	25		
Methyl Cyclohexane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.71	25		
Methylene Chloride	0.0214	0.020	mg/Kg wet	0.0200		107	40-160	1.02	25		†
4-Methyl-2-pentanone (MIBK)	0.196	0.020	mg/Kg wet	0.200		97.8	70-160	0.112	25		†
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.440	25		
1,1,2,2-Tetrachloroethane	0.0189	0.0010	mg/Kg wet	0.0200		94.7	70-130	0.841	25		
Tetrachloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130	1.33	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
LCS Dup (B076479-BSD1)				Prepared & Analyzed: 07/10/13						
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	1.13	25	
1,2,3-Trichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130	0.979	25	
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130	1.85	25	
1,1,1-Trichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130	1.48	25	
1,1,2-Trichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	1.29	25	
Trichloroethylene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130	3.52	25	
Trichlorofluoromethane (Freon 11)	0.0205	0.010	mg/Kg wet	0.0200		102	70-130	0.778	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0227	0.010	mg/Kg wet	0.0200		114	70-130	1.33	25	
Vinyl Chloride	0.0162	0.010	mg/Kg wet	0.0200		80.9	40-130	2.50	25	†
m+p Xylene	0.0370	0.0040	mg/Kg wet	0.0400		92.6	70-130	0.162	25	
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	1.40	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0520*		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	*0.0501*		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0455*		mg/Kg wet	0.0500		90.9	70-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076432 - SW-846 3546										
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13								
3-Nitroaniline	ND	0.34	mg/Kg wet									
4-Nitroaniline	ND	0.34	mg/Kg wet									
Nitrobenzene	ND	0.34	mg/Kg wet									
2-Nitrophenol	ND	0.34	mg/Kg wet									
4-Nitrophenol	ND	0.66	mg/Kg wet								V-05	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Atrazine	ND	0.67	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.79*		mg/Kg wet	6.67		56.8		30-130				
Surrogate: Phenol-d6	*3.85*		mg/Kg wet	6.67		57.7		30-130				
Surrogate: Nitrobenzene-d5	*2.02*		mg/Kg wet	3.33		60.7		30-130				
Surrogate: 2-Fluorobiphenyl	*1.89*		mg/Kg wet	3.33		56.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.94*		mg/Kg wet	6.67		74.0		30-130				
Surrogate: p-Terphenyl-d14	*2.44*		mg/Kg wet	3.33		73.3		30-130				
LCS (B076432-BS1)				Prepared: 07/10/13 Analyzed: 07/20/13								
2,3,4,6-Tetrachlorophenol	1.22	0.67	mg/Kg wet	1.67		73.2		40-140		20		
Benzaldehyde	0.679	0.34	mg/Kg wet	1.67		40.7		40-140		20		
Biphenyl	1.18	0.67	mg/Kg wet	1.67		70.9		40-140		20		
Caprolactam	1.40	0.34	mg/Kg wet	1.67		84.0		40-140		20		
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140		30		
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8		40-140		30		
Acetophenone	0.964	0.34	mg/Kg wet	1.67		57.8		40-140		30	V-05	
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.9		40-140		30		
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.1		40-140		30		
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.6		40-140		30		
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.4		40-140		30	V-05	
Benzo(g,h,i)perylene	0.655	0.17	mg/Kg wet	1.67		**39.3**	*	40-140		30	L-07	
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.4		40-140		30		
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.6		40-140		30		
Bis(2-chloroethyl)ether	1.11	0.34	mg/Kg wet	1.67		66.8		40-140		30		
Bis(2-chloroisopropyl)ether	0.942	0.34	mg/Kg wet	1.67		56.5		40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	1.02	0.34	mg/Kg wet	1.67		61.2		40-140		30		
4-Bromophenylphenylether	1.32	0.34	mg/Kg wet	1.67		79.3		40-140		30		
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5		40-140		30		
Carbazole	1.35	0.17	mg/Kg wet	1.67		81.1		40-140		30		
4-Chloroaniline	0.552	0.66	mg/Kg wet	1.67		33.1		10-140		30	J	†
4-Chloro-3-methylphenol	1.21	0.66	mg/Kg wet	1.67		72.7		30-130		30		
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.2		40-140		30		
2-Chlorophenol	1.06	0.34	mg/Kg wet	1.67		63.9		30-130		30		
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		63.1		40-140		30		
Chrysene	1.23	0.17	mg/Kg wet	1.67		73.5		40-140		30		
Dibenz(a,h)anthracene	0.818	0.17	mg/Kg wet	1.67		49.1		40-140		30		
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.2		40-140		30		
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.4		40-140		30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
LCS (B076432-BS1)				Prepared: 07/10/13 Analyzed: 07/20/13								
3,3-Dichlorobenzidine	0.924	0.17	mg/Kg wet	1.67		55.4		20-140		50		†
2,4-Dichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.1		30-130		30		
Diethylphthalate	1.17	0.34	mg/Kg wet	1.67		70.4		40-140		30		
2,4-Dimethylphenol	1.28	0.34	mg/Kg wet	1.67		76.7		30-130		30		
Dimethylphthalate	1.22	0.34	mg/Kg wet	1.67		72.9		40-140		30		
4,6-Dinitro-2-methylphenol	1.45	0.34	mg/Kg wet	1.67		87.1		30-130		30		
2,4-Dinitrophenol	1.18	0.66	mg/Kg wet	1.67		70.6		30-130		30	V-06	
2,4-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.5		40-140		30		
2,6-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.5		40-140		30		
Di-n-octylphthalate	1.03	0.67	mg/Kg wet	1.67		62.0		40-140		30		
Fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.4		40-140		30		
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.1		40-140		30		
Hexachlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.9		40-140		30		
Hexachlorobutadiene	1.10	0.34	mg/Kg wet	1.67		66.3		40-140		30		
Hexachlorocyclopentadiene	0.438	0.34	mg/Kg wet	1.67		**26.3**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.940	0.34	mg/Kg wet	1.67		56.4		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	0.754	0.17	mg/Kg wet	1.67		45.3		40-140		30		
Isophorone	1.14	0.34	mg/Kg wet	1.67		68.2		40-140		30		
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.3		40-140		30		
2-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2		30-130		30		
3/4-Methylphenol	1.01	0.34	mg/Kg wet	1.67		60.5		30-130		30	V-05	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.0		40-140		30		
2-Nitroaniline	1.01	0.34	mg/Kg wet	1.67		60.3		40-140		30		
3-Nitroaniline	1.07	0.34	mg/Kg wet	1.67		64.4		30-140		30		†
4-Nitroaniline	1.16	0.34	mg/Kg wet	1.67		69.7		40-140		30		
Nitrobenzene	1.05	0.34	mg/Kg wet	1.67		63.2		40-140		30		
2-Nitrophenol	1.27	0.34	mg/Kg wet	1.67		76.1		30-130		30		
4-Nitrophenol	1.08	0.66	mg/Kg wet	1.67		64.8		30-130		50	V-05	
N-Nitrosodiphenylamine	1.51	0.34	mg/Kg wet	1.67		90.9		40-140		30		
N-Nitrosodi-n-propylamine	0.911	0.34	mg/Kg wet	1.67		54.6		40-140		30	V-05	
Pentachlorophenol	0.987	0.34	mg/Kg wet	1.67		59.2		30-130		30		
Phenanthrene	1.23	0.17	mg/Kg wet	1.67		74.0		40-140		30		
Phenol	0.917	0.34	mg/Kg wet	1.67		55.0		30-130		30		
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.1		40-140		30		
1,2,4,5-Tetrachlorobenzene	1.13	0.34	mg/Kg wet	1.67		68.1		40-140		30		
2,4,5-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.3		30-130		30		
2,4,6-Trichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.2		30-130		30		
Atrazine	1.14	0.67	mg/Kg wet	1.67		68.6		40-140		30		
Surrogate: 2-Fluorophenol	*4.29*		mg/Kg wet	6.67		64.3		30-130				
Surrogate: Phenol-d6	*4.05*		mg/Kg wet	6.67		60.7		30-130				
Surrogate: Nitrobenzene-d5	*2.19*		mg/Kg wet	3.33		65.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/Kg wet	3.33		62.6		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.38*		mg/Kg wet	6.67		95.7		30-130				
Surrogate: p-Terphenyl-d14	*2.78*		mg/Kg wet	3.33		83.3		30-130				

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
LCS Dup (B076432-BSD1)				Prepared: 07/10/13 Analyzed: 07/20/13								
2,3,4,6-Tetrachlorophenol	1.31	0.67	mg/Kg wet	1.67		78.6		40-140	7.09	20		
Benzaldehyde	0.642	0.34	mg/Kg wet	1.67		**38.5**	*	40-140	5.55	20	L-07	
Biphenyl	1.14	0.67	mg/Kg wet	1.67		68.2		40-140	3.88	20		
Caprolactam	1.43	0.34	mg/Kg wet	1.67		86.0		40-140	2.28	20		
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.2		40-140	2.16	30		
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140	1.90	30		
Acetophenone	0.933	0.34	mg/Kg wet	1.67		56.0		40-140	3.27	30	V-05	
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.3		40-140	0.827	30		
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2		40-140	2.68	30		
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140	0.307	30		
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.3		40-140	0.126	30	V-05	
Benzo(g,h,i)perylene	0.676	0.17	mg/Kg wet	1.67		40.5		40-140	3.11	30		
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.4		40-140	2.84	30		
Bis(2-chloroethoxy)methane	1.17	0.34	mg/Kg wet	1.67		70.1		40-140	4.84	30		
Bis(2-chloroethyl)ether	1.07	0.34	mg/Kg wet	1.67		64.0		40-140	4.40	30		
Bis(2-chloroisopropyl)ether	0.901	0.34	mg/Kg wet	1.67		54.1		40-140	4.38	30	V-05	
Bis(2-Ethylhexyl)phthalate	0.997	0.34	mg/Kg wet	1.67		59.8		40-140	2.18	30		
4-Bromophenylphenylether	1.27	0.34	mg/Kg wet	1.67		75.9		40-140	4.30	30		
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.3		40-140	1.59	30		
Carbazole	1.34	0.17	mg/Kg wet	1.67		80.3		40-140	0.892	30		
4-Chloroaniline	0.484	0.66	mg/Kg wet	1.67		29.1		10-140	13.1	30	J	†
4-Chloro-3-methylphenol	1.24	0.66	mg/Kg wet	1.67		74.6		30-130	2.50	30		
2-Chloronaphthalene	1.09	0.34	mg/Kg wet	1.67		65.2		40-140	1.48	30		
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.4		30-130	3.99	30		
4-Chlorophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	1.67	30		
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.3		40-140	3.12	30		
Dibenz(a,h)anthracene	0.830	0.17	mg/Kg wet	1.67		49.8		40-140	1.46	30		
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.3		40-140	0.181	30		
Di-n-butylphthalate	1.18	0.34	mg/Kg wet	1.67		71.0		40-140	3.30	30		
3,3-Dichlorobenzidine	0.882	0.17	mg/Kg wet	1.67		52.9		20-140	4.65	50		† ‡
2,4-Dichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.6		30-130	3.56	30		
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		70.9		40-140	0.793	30		
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.2		30-130	4.62	30		
Dimethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.6		40-140	0.522	30		
4,6-Dinitro-2-methylphenol	1.45	0.34	mg/Kg wet	1.67		86.8		30-130	0.253	30		
2,4-Dinitrophenol	1.29	0.66	mg/Kg wet	1.67		77.4		30-130	9.19	30	V-06	
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4		40-140	9.06	30		
2,6-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.3		40-140	3.42	30		
Di-n-octylphthalate	1.04	0.67	mg/Kg wet	1.67		62.5		40-140	0.771	30		
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.5		40-140	3.65	30		
Fluorene	1.03	0.17	mg/Kg wet	1.67		62.1		40-140	1.62	30		
Hexachlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.6		40-140	5.45	30		
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.6		40-140	5.65	30		
Hexachlorocyclopentadiene	0.453	0.34	mg/Kg wet	1.67		**27.2**	*	40-140	3.36	30	V-05, L-04	
Hexachloroethane	0.901	0.34	mg/Kg wet	1.67		54.0		40-140	4.24	30	V-05	
Indeno(1,2,3-cd)pyrene	0.763	0.17	mg/Kg wet	1.67		45.8		40-140	1.19	30		
Isophorone	1.08	0.34	mg/Kg wet	1.67		64.5		40-140	5.64	30		
2-Methylnaphthalene	0.952	0.17	mg/Kg wet	1.67		57.1		40-140	5.41	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.3		30-130	4.41	30		
3/4-Methylphenol	0.932	0.34	mg/Kg wet	1.67		55.9		30-130	7.83	30	V-05	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.7		40-140	3.69	30		
2-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.6		40-140	5.23	30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546											
LCS Dup (B076432-BSD1)				Prepared: 07/10/13 Analyzed: 07/20/13							
3-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		69.0	30-140	6.89	30		†
4-Nitroaniline	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	10.7	30		
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	2.37	30		
2-Nitrophenol	1.23	0.34	mg/Kg wet	1.67		74.0	30-130	2.77	30		
4-Nitrophenol	1.17	0.66	mg/Kg wet	1.67		70.1	30-130	7.98	50	V-05	‡
N-Nitrosodiphenylamine	1.47	0.34	mg/Kg wet	1.67		88.0	40-140	3.20	30		
N-Nitrosodi-n-propylamine	0.871	0.34	mg/Kg wet	1.67		52.3	40-140	4.41	30	V-05	
Pentachlorophenol	0.999	0.34	mg/Kg wet	1.67		59.9	30-130	1.14	30		
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	3.66	30		
Phenol	0.896	0.34	mg/Kg wet	1.67		53.8	30-130	2.28	30		
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	0.448	30		
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	3.68	30		
2,4,5-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130	3.35	30		
2,4,6-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.8	30-130	3.32	30		
Atrazine	1.18	0.67	mg/Kg wet	1.67		70.6	40-140	2.93	30		
Surrogate: 2-Fluorophenol	*4.10*		mg/Kg wet	6.67		61.4	30-130				
Surrogate: Phenol-d6	*3.84*		mg/Kg wet	6.67		57.7	30-130				
Surrogate: Nitrobenzene-d5	*2.09*		mg/Kg wet	3.33		62.6	30-130				
Surrogate: 2-Fluorobiphenyl	*1.97*		mg/Kg wet	3.33		59.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.60*		mg/Kg wet	6.67		99.0	30-130				
Surrogate: p-Terphenyl-d14	*2.74*		mg/Kg wet	3.33		82.1	30-130				

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076432 - SW-846 3546										
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13						
No TICs Found	0.0		mg/Kg wet							

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

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076464 - SW-846 8315										
Blank (B076464-BLK1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Formaldehyde	ND	0.99	mg/Kg wet							
LCS (B076464-BS1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Formaldehyde	5.39	0.99	mg/Kg wet	4.93		110	39-153		40	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076415 - SW-846 7471										
Blank (B076415-BLK1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Mercury	ND	0.025	mg/Kg wet							
LCS (B076415-BS1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Mercury	4.23	0.33	mg/Kg wet	4.05		105	71.6-128.1		30	
LCS Dup (B076415-BSD1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Mercury	3.99	0.33	mg/Kg wet	4.05		98.4	71.6-128.1	5.98	30	
Batch B076491 - SW-846 3050B										
Blank (B076491-BLK1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	0.38	0.75	mg/Kg wet							J
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Zinc	0.64	1.0	mg/Kg wet							J
LCS (B076491-BS1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Antimony	81.1	5.0	mg/Kg wet	106		76.5	8.2-218.9		30	
Arsenic	192	5.0	mg/Kg wet	182		105	83-117.6		30	
Beryllium	105	0.50	mg/Kg wet	98.3		107	83.9-116		30	
Cadmium	67.3	0.50	mg/Kg wet	60.4		111	83.1-116.9		30	
Chromium	126	1.0	mg/Kg wet	125		101	81.6-117.6		30	
Copper	83.3	1.0	mg/Kg wet	80.1		104	83.8-116.1		30	
Lead	123	1.5	mg/Kg wet	136		90.3	82.4-117.8		30	
Manganese	279	1.0	mg/Kg wet	279		99.9	82.8-117.5		30	
Nickel	128	1.0	mg/Kg wet	128		99.9	84.4-115.6		30	
Selenium	101	10	mg/Kg wet	85.9		117	80-120		30	
Silver	58.9	1.0	mg/Kg wet	61.3		96.2	66.2-133.8		30	
Thallium	138	5.0	mg/Kg wet	144		96.0	81.2-118.8		30	
Zinc	204	2.0	mg/Kg wet	204		99.8	81.9-117.6		30	
LCS Dup (B076491-BSD1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Antimony	79.3	5.0	mg/Kg wet	106		74.8	8.2-218.9	2.27	30	
Arsenic	189	5.0	mg/Kg wet	182		104	83-117.6	1.17	30	
Beryllium	105	0.50	mg/Kg wet	98.3		107	83.9-116	0.138	30	
Cadmium	63.2	0.50	mg/Kg wet	60.4		105	83.1-116.9	6.32	30	
Chromium	126	1.0	mg/Kg wet	125		100	81.6-117.6	0.725	30	
Copper	81.2	1.0	mg/Kg wet	80.1		101	83.8-116.1	2.60	30	
Lead	122	1.5	mg/Kg wet	136		89.9	82.4-117.8	0.494	30	
Manganese	279	1.0	mg/Kg wet	279		100	82.8-117.5	0.177	30	
Nickel	127	1.0	mg/Kg wet	128		99.0	84.4-115.6	0.890	30	
Selenium	93.3	10	mg/Kg wet	85.9		109	80-120	7.78	30	
Silver	57.4	1.0	mg/Kg wet	61.3		93.6	66.2-133.8	2.66	30	
Thallium	136	5.0	mg/Kg wet	144		94.3	81.2-118.8	1.83	30	
Zinc	201	2.0	mg/Kg wet	204		98.6	81.9-117.6	1.17	30	

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076491 - SW-846 3050B										
MRL Check (B076491-MRL1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Lead	0.668	0.75	mg/Kg wet	0.746		89.5	80-120			J

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

ANALYST

SMC	Steven M. Case
SAJ	Shamika A. Johnson
RH	Robert H. Witherell
OP	Ornela Piluri
MJH	Matthew J. Hammond
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
KSH	Karen S. Hawks
JMP	Jessica M. Pace
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
CEC	Christian E. Collins
ALB	Aaron L. Benoit

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
1,4-Dioxane	NC

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

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

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8315 in Soil	
Formaldehyde	NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0266

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: HW Storage/Satellite Storage
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	TCL VOC & 10 largest non-target peaks (TICs) (SW-846 8260B)	TCL SVOC & 10 largest non-target peaks (TICs) (SW-846 8270D)	Formaldehyde (SW-846 8315A)	Metals[1] (SW-846 6010C)					Comments
~~Trip Blank~~	-	-	Lab	S	3	2	1				x								BM
FS-4 -01	7/8/13	1600	BM	S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					

Turnaround Information

- [X] 14 Day Standard
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).
(1) Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc.
VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/8/13 1830	1 Fed-X	2		2
3	7/9/13 0949	3 [signature]	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice: ☐

07-09-13 11:58 IN

FedEx

875382506890

Ship (P/U) date :
Mon 7/08/2013 4:13 pm
VALLEY COTTAGE, NY US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Tues 7/09/2013 9:49 am
MA US

Travel History

Date/Time	Activity	Location
- 7/09/2013 - Tuesday		
9:49 am	Delivered	MA
8:04 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:11 am	At local FedEx facility	WINDSOR LOCKS, CT
3:38 am	Departed FedEx location	NEWARK, NJ
- 7/08/2013 - Monday		
11:10 pm	Arrived at FedEx location	NEWARK, NJ
9:17 pm	Left FedEx origin facility	RONKONKOMA, NY
4:13 pm	Picked up	RONKONKOMA, NY

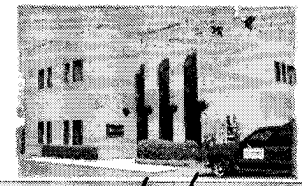
Local Scan Time

Shipment Facts

Tracking number	875382506890	**Service**	FedEx Priority Overnight
Weight	43 lbs	**Dimensions**	18x14x10 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	43 lbs / 19.5 kgs	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** CEC **DATE:** 7/9/13

1) **Was the chain(s) of custody relinquished and signed?** **Yes** **No** **No CoC Included**
2) **Does the chain agree with the samples?** **Yes** **No**
   If not, explain:
3) **Are all the samples in good condition?** **Yes** **No**
   If not, explain:
4) **How were the samples received:**

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

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

Temperature °C by Temp blank 2 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** **Yes** **No**
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** **Yes** **No**
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 14

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

8) **Do all samples have the proper Acid pH:** **Yes** **No** **N/A** _____
9) **Do all samples have the proper Base pH:** **Yes** **No** **N/A** _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** **Yes** **No** **N/A**

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz amber/clear jar	1
500 mL Amber			4 oz amber/clear jar	1
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below	3		PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 1
Bisulfate _____ # DI Water 2
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-09-13 11:53 IN

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

July 24, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: HW Storage/Satellite Storage, Lenoir, NC
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13G0267

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/24/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0267

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

PROJECT LOCATION: HW Storage/Satellite Storage, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0267-01	Trip Blank Soil		SW-846 8260B	
				SW-846 8260C	
FS-1	13G0267-02	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-2	13G0267-03	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-3	13G0267-04	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-5	13G0267-05	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-6	13G0267-06	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/24/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0267

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

PROJECT LOCATION: HW Storage/Satellite Storage, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
FS-7	13G0267-07	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-8	13G0267-08	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
Dup-2	13G0267-09	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	

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

CASE NARRATIVE SUMMARY

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

SW-846 6010C

Qualifications:

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

Analyte & Samples(s) Qualified:

Cadmium

13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2], B076403-DUP1

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

Analyte & Samples(s) Qualified:

Antimony

13G0267-03[FS-2], B076403-MS1

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

Analyte & Samples(s) Qualified:

Manganese

13G0267-03[FS-2], B076403-MS1

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

Analyte & Samples(s) Qualified:

Chromium, Nickel

13G0267-03[FS-2], B076403-DUP1

SW-846 7471B

Qualifications:

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

Analyte & Samples(s) Qualified:

Mercury

13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2], B076404-DUP1

SW-846 8260B

Qualifications:

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

Analyte & Samples(s) Qualified:

1,2-Dichloroethane-d4

13G0267-02[FS-1], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2]

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

13G0267-01[Trip Blank], 13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2], B076479-BLK1, B076479-BS1, B076479-BSD1

SW-846 8270D

Qualifications:

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

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2], B076432-BLK1, B076432-BS1, B076432-BSD1

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

Analyte & Samples(s) Qualified:

Benzaldehyde, Benzo(g,h,i)perylene

B076432-BSD1, B076432-BS1

Elevated reporting limit due to high concentration of target compounds. Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate

13G0267-07[FS-7]

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

Analyte & Samples(s) Qualified:

2,4,5-Trichlorophenol, 2-Nitroaniline, 3/4-Methylphenol, 4-Nitrophenol, Acetophenone, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Bis(2-chloroisopropyl)ether, Di-n-octylphthalate, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine

13G0267-06[FS-6], 13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-08[FS-8], B076432-BLK1, B076432-BS1, B076432-BSD1, 13G0267-07[FS-7], 13G0267-09[Dup-2]

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076432-BS1, B076432-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0267-06[FS-6], 13G0267-07[FS-7]

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 2-Chloronaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol

13G0267-09[Dup-2], B076432-BLK1

---

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

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

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/8/2013 00:00

Sample ID: 13G0267-01

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Carbon Disulfide	ND	0.0060	0.0033	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg wet	1	V-16	SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2,4-Trichlorobenzene	ND	0.0040	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/8/2013 00:00

Sample ID: 13G0267-01

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Trichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	122	70-130		7/10/13 11:59
Toluene-d8	98.6	70-130		7/10/13 11:59
4-Bromofluorobenzene	86.3	70-130		7/10/13 11:59

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/8/2013 00:00

Sample ID: 13G0267-01

Sample Matrix: Trip Blank Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg wet			1		SW-846 8260C	7/10/13	7/10/13 11:59	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Carbon Disulfide	ND	0.0070	0.0038	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Cyclohexane	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Methyl Acetate	ND	0.0023	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Methylene Chloride	ND	0.023	0.0083	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2,4-Trichlorobenzene	ND	0.0046	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**131** *	70-130	S-17	7/10/13 12:27
Toluene-d8	98.9	70-130		7/10/13 12:27
4-Bromofluorobenzene	86.5	70-130		7/10/13 12:27

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 12:27	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Acetophenone	ND	0.41	0.098	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Nitroaniline	ND	0.41	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Atrazine	ND	0.80	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	56.2	30-130		7/21/13 14:55
Phenol-d6	56.6	30-130		7/21/13 14:55
Nitrobenzene-d5	62.5	30-130		7/21/13 14:55
2-Fluorobiphenyl	57.2	30-130		7/21/13 14:55
2,4,6-Tribromophenol	77.1	30-130		7/21/13 14:55
p-Terphenyl-d14	79.6	30-130		7/21/13 14:55

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexanedioic acid, bis(2-eth...	0.29	mg/Kg dry	350668	14.624	1	000103-23-1	SW-846 8270D	7/10/13	7/21/13 14:55	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.67	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 16:21	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	2.3	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Arsenic	ND	2.9	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Beryllium	ND	0.29	0.047	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:07	OP
Cadmium	0.69	0.29	0.17	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:11	OP
Chromium	20	0.58	0.15	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Copper	25	0.58	0.44	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Lead	15	0.87	0.40	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:07	OP
Manganese	840	0.58	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Mercury	0.020	0.030	0.0019	mg/Kg dry	1	B, J	SW-846 7471B	7/9/13	7/10/13 12:39	SAJ
Nickel	7.4	0.58	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Selenium	ND	5.8	0.90	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:02	OP
Silver	ND	0.58	0.51	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Thallium	ND	2.9	0.96	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Zinc	47	1.2	0.30	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.029	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Benzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Bromodichloromethane	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Bromomethane	ND	0.012	0.0021	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
2-Butanone (MEK)	ND	0.049	0.021	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Carbon Disulfide	ND	0.0073	0.0040	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Carbon Tetrachloride	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chlorodibromomethane	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chloroform	ND	0.0049	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Cyclohexane	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1-Dichloroethane	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1-Dichloroethylene	ND	0.0049	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,4-Dioxane	ND	0.12	0.070	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Ethylbenzene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Methyl Acetate	ND	0.0024	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0049	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Methylene Chloride	0.0088	0.024	0.0087	mg/Kg dry	1	J	SW-846 8260B	7/10/13	7/10/13 12:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Styrene	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Toluene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2,4-Trichlorobenzene	ND	0.0049	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
m+p Xylene	ND	0.0049	0.0021	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
o-Xylene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	123	70-130		7/10/13 12:55
Toluene-d8	102	70-130		7/10/13 12:55
4-Bromofluorobenzene	84.9	70-130		7/10/13 12:55

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 12:55	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.82	0.42	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzaldehyde	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Biphenyl	ND	0.82	0.52	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Caprolactam	ND	0.42	0.32	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Acetophenone	ND	0.42	0.10	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(a)anthracene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(a)pyrene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Bis(2-Ethylhexyl)phthalate	4.3	0.42	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Carbazole	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Chloroaniline	ND	0.81	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Chloro-3-methylphenol	ND	0.81	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Chrysene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Dibenzofuran	ND	0.42	0.097	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4-Dinitrophenol	ND	0.81	0.42	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4-Dinitrotoluene	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,6-Dinitrotoluene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Di-n-octylphthalate	ND	0.82	0.57	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Hexachlorocyclopentadiene	ND	0.42	0.28	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Naphthalene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Nitroaniline	ND	0.42	0.29	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
3-Nitroaniline	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Nitroaniline	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Nitrophenol	ND	0.81	0.73	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4,5-Trichlorophenol	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Atrazine	ND	0.82	0.69	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	59.2	30-130		7/21/13 17:04
Phenol-d6	57.9	30-130		7/21/13 17:04
Nitrobenzene-d5	65.9	30-130		7/21/13 17:04
2-Fluorobiphenyl	63.0	30-130		7/21/13 17:04
2,4,6-Tribromophenol	84.4	30-130		7/21/13 17:04
p-Terphenyl-d14	93.3	30-130		7/21/13 17:04

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	1.5	mg/Kg dry	1517410	14.56	1	000301-02-0	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Hexadecanoic acid, butyl ester	0.26	mg/Kg dry	268414	13.795	1	000111-06-8	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Phthalic anhydride	0.18	mg/Kg dry	201191	9.819	1	000085-44-9	SW-846 8270D	7/10/13	7/21/13 17:04	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.67	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 16:33	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	2.3	mg/Kg dry	1	MS-07	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Arsenic	ND	2.9	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Beryllium	ND	0.29	0.046	mg/Kg dry	1		SW-846 6010C	7/9/13	7/16/13 18:35	KSH
Cadmium	0.83	0.29	0.17	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Chromium	22	0.57	0.14	mg/Kg dry	1	R-02	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Copper	30	0.57	0.43	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Lead	8.7	0.86	0.39	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Manganese	590	0.57	0.18	mg/Kg dry	1	MS-19	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Mercury	0.013	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:45	SAJ
Nickel	8.7	0.57	0.14	mg/Kg dry	1	R-02	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Selenium	ND	5.7	0.88	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Silver	ND	0.57	0.50	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Thallium	ND	2.9	0.95	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Zinc	55	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.3		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Benzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Bromodichloromethane	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
2-Butanone (MEK)	ND	0.052	0.023	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Carbon Disulfide	ND	0.0078	0.0043	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chlorodibromomethane	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chloroethane	ND	0.026	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chloroform	ND	0.0052	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Cyclohexane	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1-Dichloroethane	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1-Dichloroethylene	ND	0.0052	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,4-Dioxane	ND	0.13	0.075	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Methylene Chloride	0.017	0.026	0.0093	mg/Kg dry	1	J	SW-846 8260B	7/10/13	7/10/13 13:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0099	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Styrene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2,4-Trichlorobenzene	ND	0.0052	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Trichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
m+p Xylene	ND	0.0052	0.0022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
o-Xylene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	130	70-130		7/10/13 13:23
Toluene-d8	102	70-130		7/10/13 13:23
4-Bromofluorobenzene	86.8	70-130		7/10/13 13:23

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 13:23	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Acetophenone	ND	0.41	0.098	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Nitroaniline	ND	0.41	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Atrazine	ND	0.80	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	47.2	30-130		7/21/13 17:36
Phenol-d6	44.2	30-130		7/21/13 17:36
Nitrobenzene-d5	50.7	30-130		7/21/13 17:36
2-Fluorobiphenyl	48.9	30-130		7/21/13 17:36
2,4,6-Tribromophenol	64.2	30-130		7/21/13 17:36
p-Terphenyl-d14	75.3	30-130		7/21/13 17:36

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexadecanoic acid, butyl ester	0.26	mg/Kg dry	237414	13.795	1	000111-06-8	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Octadecanoic acid, butyl ester	0.19	mg/Kg dry	172466	14.613	1	000123-95-5	SW-846 8270D	7/10/13	7/21/13 17:36	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.66	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 16:45	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.2	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Beryllium	ND	0.28	0.045	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:12	OP
Cadmium	0.69	0.28	0.16	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:16	OP
Chromium	47	0.56	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Copper	39	0.56	0.43	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Lead	14	0.84	0.39	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:12	OP
Manganese	520	0.56	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Mercury	0.016	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:46	SAJ
Nickel	13	0.56	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Selenium	ND	5.6	0.86	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:07	OP
Silver	ND	0.56	0.49	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Thallium	ND	2.8	0.93	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Zinc	44	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Carbon Disulfide	ND	0.0069	0.0038	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Cyclohexane	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Methyl Acetate	ND	0.0023	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2,4-Trichlorobenzene	ND	0.0046	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**136** *	70-130	S-17	7/10/13 13:51
Toluene-d8	97.8	70-130		7/10/13 13:51
4-Bromofluorobenzene	84.6	70-130		7/10/13 13:51

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 13:51	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Acenaphthylene	ND	0.21	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Acetophenone	ND	0.41	0.099	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(a)anthracene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(a)pyrene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Bis(2-Ethylhexyl)phthalate	1.7	0.41	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Carbazole	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Chloroaniline	ND	0.80	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Chloro-3-methylphenol	ND	0.80	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Chrysene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Dibenzofuran	ND	0.41	0.096	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Di-n-butylphthalate	ND	0.41	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4-Dinitrophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Di-n-octylphthalate	ND	0.81	0.56	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Naphthalene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Nitroaniline	ND	0.41	0.29	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Nitrophenol	ND	0.80	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4,6-Trichlorophenol	ND	0.41	0.27	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	52.6	30-130		7/21/13 15:27
Phenol-d6	51.5	30-130		7/21/13 15:27
Nitrobenzene-d5	57.8	30-130		7/21/13 15:27
2-Fluorobiphenyl	54.5	30-130		7/21/13 15:27
2,4,6-Tribromophenol	71.4	30-130		7/21/13 15:27
p-Terphenyl-d14	74.3	30-130		7/21/13 15:27

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexadecanoic acid, 1,1-dime...	0.25	mg/Kg dry	294258	13.795	1	031158-91-5	SW-846 8270D	7/10/13	7/21/13 15:27	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.69	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 17:54	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.3	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Beryllium	ND	0.28	0.046	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:17	OP
Cadmium	0.68	0.28	0.17	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:21	OP
Chromium	21	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Copper	24	0.57	0.43	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Lead	15	0.85	0.39	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:17	OP
Manganese	630	0.57	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Mercury	0.0085	0.029	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:48	SAJ
Nickel	7.9	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Selenium	ND	5.7	0.87	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:11	OP
Silver	ND	0.57	0.50	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Thallium	ND	2.8	0.94	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Zinc	48	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.7		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Benzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Bromochloromethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Bromodichloromethane	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Bromoform	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Carbon Disulfide	ND	0.0062	0.0034	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Carbon Tetrachloride	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chlorodibromomethane	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chloroethane	ND	0.021	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chloroform	ND	0.0041	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chloromethane	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Cyclohexane	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1-Dichloroethane	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dichloropropane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,4-Dioxane	ND	0.10	0.059	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Ethylbenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
2-Hexanone (MBK)	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Methyl Acetate	ND	0.0021	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Methyl Cyclohexane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Methylene Chloride	ND	0.021	0.0073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Styrene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Tetrachloroethylene	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Toluene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2,4-Trichlorobenzene	ND	0.0041	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Trichloroethylene	ND	0.0021	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
o-Xylene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF

Surrogates	% Recovery		Recovery Limits	Flag	
1,2-Dichloroethane-d4	**135**	*	70-130	S-17	7/10/13 14:19
Toluene-d8	95.9		70-130		7/10/13 14:19
4-Bromofluorobenzene	82.5		70-130		7/10/13 14:19

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 14:19	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR
Caprolactam	ND	0.40	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Acetophenone	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(a)anthracene	0.22	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(a)pyrene	0.18	0.20	0.071	mg/Kg dry	1	J	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Bis(2-Ethylhexyl)phthalate	0.14	0.40	0.090	mg/Kg dry	1	J	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Bromophenylphenylether	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Chloronaphthalene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Chrysene	0.21	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Dibenzofuran	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4-Dinitrophenol	ND	0.79	0.40	mg/Kg dry	1	V-19	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4-Dinitrotoluene	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,6-Dinitrotoluene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Di-n-octylphthalate	ND	0.80	0.55	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Hexachlorocyclopentadiene	ND	0.40	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/23/13 16:31	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Naphthalene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Nitroaniline	ND	0.40	0.28	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
3-Nitroaniline	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Nitroaniline	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
N-Nitrosodiphenylamine	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Phenanthrene	0.18	0.20	0.11	mg/Kg dry	1	J	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Pyrene	0.31	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4,5-Trichlorophenol	ND	0.40	0.21	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Atrazine	ND	0.80	0.67	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	50.2	30-130		7/23/13 16:31
Phenol-d6	60.3	30-130		7/23/13 16:31
Nitrobenzene-d5	54.3	30-130		7/23/13 16:31
2-Fluorobiphenyl	68.0	30-130		7/23/13 16:31
2,4,6-Tribromophenol	53.4	30-130		7/23/13 16:31
p-Terphenyl-d14	73.1	30-130		7/23/13 16:31

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.87	mg/Kg dry	513637	14.108	1	000301-02-0	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Octadecane	0.16	mg/Kg dry	80162	16.3	1	000593-45-3	SW-846 8270D	7/10/13	7/23/13 16:31	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.1	0.65	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 18:06	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.2	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Arsenic	ND	2.8	0.99	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Beryllium	ND	0.28	0.044	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:35	OP
Cadmium	0.68	0.28	0.16	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:25	OP
Chromium	45	0.55	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Copper	37	0.55	0.42	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Lead	14	0.83	0.38	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:35	OP
Manganese	610	0.55	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Mercury	0.019	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:50	SAJ
Nickel	18	0.55	0.13	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Selenium	ND	5.5	0.85	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:16	OP
Silver	ND	0.55	0.48	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Thallium	ND	2.8	0.91	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Zinc	46	1.1	0.28	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Benzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Bromochloromethane	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Bromodichloromethane	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Bromoform	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
2-Butanone (MEK)	ND	0.045	0.019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Carbon Disulfide	ND	0.0067	0.0037	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Carbon Tetrachloride	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chlorodibromomethane	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chloroethane	ND	0.022	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chloroform	ND	0.0045	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chloromethane	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Cyclohexane	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1-Dichloroethane	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1-Dichloroethylene	ND	0.0045	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,4-Dioxane	ND	0.11	0.064	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Ethylbenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Methyl Acetate	ND	0.0022	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Methyl Cyclohexane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Methylene Chloride	ND	0.022	0.0079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Styrene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Toluene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2,4-Trichlorobenzene	ND	0.0045	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Trichloroethylene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
o-Xylene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**135** *	70-130	S-17	7/10/13 14:48
Toluene-d8	99.9	70-130		7/10/13 14:48
4-Bromofluorobenzene	81.6	70-130		7/10/13 14:48

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 14:48	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.83	0.42	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR
Benzaldehyde	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR
Biphenyl	ND	0.83	0.53	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR
Caprolactam	ND	0.42	0.32	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR
Acenaphthene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Acetophenone	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(a)anthracene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(a)pyrene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Bis(2-Ethylhexyl)phthalate	18	2.1	0.47	mg/Kg dry	5	RL-01	SW-846 8270D	7/10/13	7/22/13 16:02	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Carbazole	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Chloroaniline	ND	0.82	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Chloro-3-methylphenol	ND	0.82	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Chrysene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Dibenzofuran	ND	0.42	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4-Dinitrophenol	ND	0.82	0.42	mg/Kg dry	1	V-19	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4-Dinitrotoluene	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,6-Dinitrotoluene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Di-n-octylphthalate	ND	0.83	0.57	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Hexachlorocyclopentadiene	ND	0.42	0.28	mg/Kg dry	1	L-04	SW-846 8270D	7/10/13	7/22/13 15:00	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Naphthalene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Nitroaniline	ND	0.42	0.29	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
3-Nitroaniline	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Nitroaniline	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Nitrophenol	ND	0.82	0.74	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.25	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4,5-Trichlorophenol	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Atrazine	ND	0.83	0.70	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	49.7	30-130		7/22/13 15:00
Phenol-d6	49.1	30-130		7/22/13 15:00
Nitrobenzene-d5	49.7	30-130		7/22/13 15:00
2-Fluorobiphenyl	61.0	30-130		7/22/13 15:00
2,4,6-Tribromophenol	44.9	30-130		7/22/13 15:00
p-Terphenyl-d14	56.5	30-130		7/22/13 15:00

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.56	mg/Kg dry	246534	14.123	1	000301-02-0	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
n-Hexadecanoic acid	0.37	mg/Kg dry	145846	11.171	1	000057-10-3	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Octadecanoic acid	0.26	mg/Kg dry	112889	12.714	1	000057-11-4	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Phthalic anhydride	0.82	mg/Kg dry	423041	6.057	1	000085-44-9	SW-846 8270D	7/10/13	7/22/13 15:00	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	0.87	1.2	0.69	mg/Kg dry	1	J	SW-846 8315	7/10/13	7/11/13 18:18	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	2.4	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Arsenic	ND	3.0	1.1	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Beryllium	ND	0.30	0.048	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:40	OP
Cadmium	0.93	0.30	0.18	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:30	OP
Chromium	21	0.60	0.15	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Copper	120	0.60	0.45	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Lead	34	0.89	0.41	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:40	OP
Manganese	480	0.60	0.19	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Mercury	0.022	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:51	SAJ
Nickel	9.3	0.60	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Selenium	ND	6.0	0.92	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:21	OP
Silver	ND	0.60	0.52	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Thallium	ND	3.0	0.99	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Zinc	110	1.2	0.31	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Carbon Disulfide	ND	0.0061	0.0034	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Carbon Tetrachloride	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chloroform	ND	0.0041	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chloromethane	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Cyclohexane	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,4-Dioxane	ND	0.10	0.059	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Ethylbenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Methylene Chloride	ND	0.020	0.0073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Toluene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2,4-Trichlorobenzene	ND	0.0041	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Trichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF

Surrogates	% Recovery		Recovery Limits	Flag	
1,2-Dichloroethane-d4	**136**	*	70-130	S-17	7/10/13 15:16
Toluene-d8	102		70-130		7/10/13 15:16
4-Bromofluorobenzene	83.2		70-130		7/10/13 15:16

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 15:16	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.40	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Acenaphthylene	ND	0.20	0.096	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Acetophenone	ND	0.40	0.096	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(a)anthracene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(a)pyrene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(b)fluoranthene	ND	0.20	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Bis(2-Ethylhexyl)phthalate	0.44	0.40	0.089	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Bromophenylphenylether	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Chloroaniline	ND	0.77	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Chloro-3-methylphenol	ND	0.77	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Chloronaphthalene	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Chlorophenylphenylether	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Dibenzofuran	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4-Dimethylphenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Dimethylphthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4-Dinitrophenol	ND	0.77	0.40	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4-Dinitrotoluene	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,6-Dinitrotoluene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Di-n-octylphthalate	ND	0.79	0.55	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Isophorone	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Naphthalene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Nitroaniline	ND	0.40	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
3-Nitroaniline	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Nitroaniline	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Nitrophenol	ND	0.77	0.70	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
N-Nitrosodiphenylamine	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.23	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4,5-Trichlorophenol	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Atrazine	ND	0.79	0.66	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	56.6	30-130		7/21/13 15:59
Phenol-d6	55.6	30-130		7/21/13 15:59
Nitrobenzene-d5	60.1	30-130		7/21/13 15:59
2-Fluorobiphenyl	58.6	30-130		7/21/13 15:59
2,4,6-Tribromophenol	78.7	30-130		7/21/13 15:59
p-Terphenyl-d14	79.2	30-130		7/21/13 15:59

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.78	mg/Kg dry	885212	14.554	1	000301-02-0	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
eicosane	0.36	mg/Kg dry	392176	13.06	1	000112-95-8	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Heptadecane	1.0	mg/Kg dry	1113240	11.801	1	000629-78-7	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Heptadecane, 2,6,10,15-tetr... (01)	0.16	mg/Kg dry	289928	11.148	1	054833-48-6	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Heptadecane, 2,6,10,15-tetr... (02)	0.20	mg/Kg dry	219526	13.454	1	054833-48-6	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexadecane	0.62	mg/Kg dry	1153060	11.33	1	000544-76-3	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexadecane, 2,6,10,14-tetra...	0.27	mg/Kg dry	296490	12.272	1	000638-36-8	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Pentadecane, 2,6,10-trimethyl-	0.36	mg/Kg dry	665065	11.548	1	003892-00-0	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Tetradecane	0.57	mg/Kg dry	626672	12.242	1	000629-59-4	SW-846 8270D	7/10/13	7/21/13 15:59	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.1	0.66	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 18:30	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.3	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Beryllium	ND	0.28	0.046	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:45	OP
Cadmium	0.68	0.28	0.17	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:34	OP
Chromium	32	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Copper	47	0.57	0.43	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Lead	24	0.85	0.39	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:45	OP
Manganese	440	0.57	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Mercury	0.012	0.029	0.0018	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:53	SAJ
Nickel	13	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Selenium	ND	5.7	0.88	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:25	OP
Silver	ND	0.57	0.50	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Thallium	ND	2.8	0.94	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Zinc	57	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Benzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Bromochloromethane	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Bromodichloromethane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Bromoform	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
2-Butanone (MEK)	ND	0.051	0.022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Carbon Disulfide	ND	0.0076	0.0042	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Carbon Tetrachloride	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chlorodibromomethane	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chloroethane	ND	0.025	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chloroform	ND	0.0051	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chloromethane	ND	0.013	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Cyclohexane	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,4-Dichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1-Dichloroethane	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dichloroethane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dichloropropane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,4-Dioxane	ND	0.13	0.073	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Ethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
2-Hexanone (MBK)	ND	0.025	0.014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Methyl Acetate	ND	0.0025	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Methyl Cyclohexane	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Methylene Chloride	ND	0.025	0.0090	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.0096	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Styrene	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Tetrachloroethylene	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Toluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2,4-Trichlorobenzene	ND	0.0051	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1,2-Trichloroethane	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Trichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
o-Xylene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**134** *	70-130	S-17	7/10/13 15:44
Toluene-d8	101	70-130		7/10/13 15:44
4-Bromofluorobenzene	84.0	70-130		7/10/13 15:44

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 15:44	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Acenaphthylene	ND	0.20	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Acetophenone	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(a)anthracene	ND	0.20	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Di-n-octylphthalate	ND	0.81	0.56	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/22/13 10:50	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Nitroaniline	ND	0.41	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Nitrophenol	ND	0.79	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	50.2	30-130		7/22/13 10:50
Phenol-d6	51.5	30-130		7/22/13 10:50
Nitrobenzene-d5	56.0	30-130		7/22/13 10:50
2-Fluorobiphenyl	54.9	30-130		7/22/13 10:50
2,4,6-Tribromophenol	70.8	30-130		7/22/13 10:50
p-Terphenyl-d14	72.0	30-130		7/22/13 10:50

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.61	mg/Kg dry	995337	14.551	1	000301-02-0	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Hexadecanoic acid, 1,1-dime...	0.21	mg/Kg dry	338517	13.792	1	031158-91-5	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Octadecanoic acid, butyl ester	0.17	mg/Kg dry	276738	14.604	1	000123-95-5	SW-846 8270D	7/10/13	7/22/13 10:50	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.68	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 18:41	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.2	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Beryllium	ND	0.28	0.045	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:50	OP
Cadmium	0.63	0.28	0.16	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:39	OP
Chromium	15	0.56	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Copper	27	0.56	0.42	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Lead	14	0.83	0.38	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:50	OP
Manganese	770	0.56	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Mercury	0.0072	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:55	SAJ
Nickel	6.0	0.56	0.13	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Selenium	ND	5.6	0.86	mg/Kg dry	1		SW-846 6010C	7/9/13	7/15/13 15:00	OP
Silver	ND	0.56	0.49	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Thallium	ND	2.8	0.92	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Zinc	49	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0267-02 [FS-1]	B076919	07/17/13
13G0267-03 [FS-2]	B076919	07/17/13
13G0267-04 [FS-3]	B076919	07/17/13
13G0267-05 [FS-5]	B076919	07/17/13
13G0267-06 [FS-6]	B076919	07/17/13
13G0267-07 [FS-7]	B076919	07/17/13
13G0267-08 [FS-8]	B076919	07/17/13
13G0267-09 [Dup-2]	B076919	07/17/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-02 [FS-1]	B076403	1.03	50.0	07/09/13
13G0267-03 [FS-2]	B076403	1.08	50.0	07/09/13
13G0267-04 [FS-3]	B076403	1.07	50.0	07/09/13
13G0267-05 [FS-5]	B076403	1.07	50.0	07/09/13
13G0267-06 [FS-6]	B076403	1.08	50.0	07/09/13
13G0267-07 [FS-7]	B076403	1.04	50.0	07/09/13
13G0267-08 [FS-8]	B076403	1.03	50.0	07/09/13
13G0267-09 [Dup-2]	B076403	1.09	50.0	07/09/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-02 [FS-1]	B076404	0.610	50.0	07/09/13
13G0267-03 [FS-2]	B076404	0.610	50.0	07/09/13
13G0267-04 [FS-3]	B076404	0.607	50.0	07/09/13
13G0267-05 [FS-5]	B076404	0.618	50.0	07/09/13
13G0267-06 [FS-6]	B076404	0.604	50.0	07/09/13
13G0267-07 [FS-7]	B076404	0.615	50.0	07/09/13
13G0267-08 [FS-8]	B076404	0.610	50.0	07/09/13
13G0267-09 [Dup-2]	B076404	0.607	50.0	07/09/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-01 [Trip Blank]	B076479	5.00	10.0	07/10/13
13G0267-02 [FS-1]	B076479	5.17	10.0	07/10/13
13G0267-03 [FS-2]	B076479	5.04	10.0	07/10/13
13G0267-04 [FS-3]	B076479	4.59	10.0	07/10/13
13G0267-05 [FS-5]	B076479	5.22	10.0	07/10/13
13G0267-06 [FS-6]	B076479	5.80	10.0	07/10/13
13G0267-07 [FS-7]	B076479	5.55	10.0	07/10/13
13G0267-08 [FS-8]	B076479	5.74	10.0	07/10/13
13G0267-09 [Dup-2]	B076479	4.76	10.0	07/10/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-02 [FS-1]	B076432	30.1	1.00	07/10/13

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-03 [FS-2]	B076432	30.0	1.00	07/10/13
13G0267-04 [FS-3]	B076432	30.0	1.00	07/10/13
13G0267-05 [FS-5]	B076432	30.0	1.00	07/10/13
13G0267-06 [FS-6]	B076432	30.0	1.00	07/10/13
13G0267-07 [FS-7]	B076432	30.0	1.00	07/10/13
13G0267-08 [FS-8]	B076432	30.0	1.00	07/10/13
13G0267-09 [Dup-2]	B076432	30.1	1.00	07/10/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-02 [FS-1]	B076464	5.20	25.0	07/10/13
13G0267-03 [FS-2]	B076464	5.27	25.0	07/10/13
13G0267-04 [FS-3]	B076464	5.19	25.0	07/10/13
13G0267-05 [FS-5]	B076464	5.05	25.0	07/10/13
13G0267-06 [FS-6]	B076464	5.26	25.0	07/10/13
13G0267-07 [FS-7]	B076464	5.14	25.0	07/10/13
13G0267-08 [FS-8]	B076464	5.12	25.0	07/10/13
13G0267-09 [Dup-2]	B076464	5.11	25.0	07/10/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076479 - SW-846 5035											
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13							
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0557*		mg/Kg wet	0.0500		111	70-130				
Surrogate: Toluene-d8	*0.0490*		mg/Kg wet	0.0500		97.9	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0434*		mg/Kg wet	0.0500		86.8	70-130				
LCS (B076479-BS1)				Prepared & Analyzed: 07/10/13							
Acetone	0.235	0.10	mg/Kg wet	0.200		117	70-160		25		†
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130		25		
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
Bromodichloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130		25		
Bromoform	0.0145	0.0020	mg/Kg wet	0.0200		72.7	70-130		25		
Bromomethane	0.0113	0.010	mg/Kg wet	0.0200		56.5	40-130		25		†
2-Butanone (MEK)	0.188	0.040	mg/Kg wet	0.200		93.8	70-160		25		†
Carbon Disulfide	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130		25		
Carbon Tetrachloride	0.0167	0.0020	mg/Kg wet	0.0200		83.6	70-130		25		
Chlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130		25		
Chlorodibromomethane	0.0172	0.0010	mg/Kg wet	0.0200		85.9	70-130		25		
Chloroethane	0.0199	0.020	mg/Kg wet	0.0200		99.7	70-130		25	J	
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		96.9	70-130		25		
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.4	70-130		25		
Cyclohexane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0169	0.0020	mg/Kg wet	0.0200		84.3	70-130		25		
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130		25		
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130		25		
1,4-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.7	40-160		25	J	†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130		25		
1,2-Dichloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130		25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130		25		
cis-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130		25		
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130		25		
cis-1,3-Dichloropropene	0.0165	0.0010	mg/Kg wet	0.0200		82.5	70-130		25		
trans-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.3	70-130		25		
1,4-Dioxane	0.205	0.10	mg/Kg wet	0.200		102	40-160		50	V-16	†
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130		25		
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.6	70-160		25		†
Isopropylbenzene (Cumene)	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
Methyl Acetate	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0203	0.0040	mg/Kg wet	0.0200		102	70-130		25		
Methyl Cyclohexane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
Methylene Chloride	0.0217	0.020	mg/Kg wet	0.0200		108	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.195	0.020	mg/Kg wet	0.200		97.7	70-160		25		†
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130		25		
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130		25		
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130		25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130		25		
1,2,4-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130		25		
1,1,1-Trichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130		25		
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076479 - SW-846 5035											
LCS (B076479-BS1)				Prepared & Analyzed: 07/10/13							
Trichloroethylene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130		25		
Vinyl Chloride	0.0158	0.010	mg/Kg wet	0.0200		78.9	40-130		25		†
m+p Xylene	0.0371	0.0040	mg/Kg wet	0.0400		92.7	70-130		25		
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0519*		mg/Kg wet	0.0500		104	70-130				
Surrogate: Toluene-d8	*0.0507*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0460*		mg/Kg wet	0.0500		92.0	70-130				
LCS Dup (B076479-BSD1)				Prepared & Analyzed: 07/10/13							
Acetone	0.224	0.10	mg/Kg wet	0.200		112	70-160	4.88	25		†
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.61	25		
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	0.798	25		
Bromodichloromethane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	0.551	25		
Bromoform	0.0140	0.0020	mg/Kg wet	0.0200		70.2	70-130	3.50	25		
Bromomethane	0.0134	0.010	mg/Kg wet	0.0200		66.8	40-130	16.7	25		†
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		93.2	70-160	0.663	25		†
Carbon Disulfide	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130	0.00	25		
Carbon Tetrachloride	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130	1.07	25		
Chlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	0.531	25		
Chlorodibromomethane	0.0172	0.0010	mg/Kg wet	0.0200		86.2	70-130	0.349	25		
Chloroethane	0.0206	0.020	mg/Kg wet	0.0200		103	70-130	3.26	25		
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.5	70-130	0.414	25		
Chloromethane	0.0151	0.010	mg/Kg wet	0.0200		75.3	70-130	1.20	25		
Cyclohexane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	2.07	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130	1.53	25		
1,2-Dibromoethane (EDB)	0.0197	0.0010	mg/Kg wet	0.0200		98.7	70-130	0.508	25		
1,2-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	0.815	25		
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	0.704	25		
1,4-Dichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	0.326	25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.3	40-160	0.696	25	J	†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.847	25		
1,2-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	1.10	25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.00	25		
cis-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	1.19	25		
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.80	25		
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	1.23	25		
cis-1,3-Dichloropropene	0.0167	0.0010	mg/Kg wet	0.0200		83.7	70-130	1.44	25		
trans-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130	0.890	25		
1,4-Dioxane	0.197	0.10	mg/Kg wet	0.200		98.7	40-160	3.79	50	V-16	† ‡
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.547	25		
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.3	70-160	0.349	25		†
Isopropylbenzene (Cumene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	0.109	25		
Methyl Acetate	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.612	25		
Methyl tert-Butyl Ether (MTBE)	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	2.33	25		
Methyl Cyclohexane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.71	25		
Methylene Chloride	0.0214	0.020	mg/Kg wet	0.0200		107	40-160	1.02	25		†
4-Methyl-2-pentanone (MIBK)	0.196	0.020	mg/Kg wet	0.200		97.8	70-160	0.112	25		†
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.440	25		
1,1,2,2-Tetrachloroethane	0.0189	0.0010	mg/Kg wet	0.0200		94.7	70-130	0.841	25		
Tetrachloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130	1.33	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
LCS Dup (B076479-BSD1)				Prepared & Analyzed: 07/10/13						
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	1.13	25	
1,2,3-Trichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130	0.979	25	
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130	1.85	25	
1,1,1-Trichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130	1.48	25	
1,1,2-Trichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	1.29	25	
Trichloroethylene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130	3.52	25	
Trichlorofluoromethane (Freon 11)	0.0205	0.010	mg/Kg wet	0.0200		102	70-130	0.778	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0227	0.010	mg/Kg wet	0.0200		114	70-130	1.33	25	
Vinyl Chloride	0.0162	0.010	mg/Kg wet	0.0200		80.9	40-130	2.50	25	†
m+p Xylene	0.0370	0.0040	mg/Kg wet	0.0400		92.6	70-130	0.162	25	
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	1.40	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0520*		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	*0.0501*		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0455*		mg/Kg wet	0.0500		90.9	70-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076432 - SW-846 3546										
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13								
3-Nitroaniline	ND	0.34	mg/Kg wet									
4-Nitroaniline	ND	0.34	mg/Kg wet									
Nitrobenzene	ND	0.34	mg/Kg wet									
2-Nitrophenol	ND	0.34	mg/Kg wet									
4-Nitrophenol	ND	0.66	mg/Kg wet								V-05	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Atrazine	ND	0.67	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.79*		mg/Kg wet	6.67		56.8		30-130				
Surrogate: Phenol-d6	*3.85*		mg/Kg wet	6.67		57.7		30-130				
Surrogate: Nitrobenzene-d5	*2.02*		mg/Kg wet	3.33		60.7		30-130				
Surrogate: 2-Fluorobiphenyl	*1.89*		mg/Kg wet	3.33		56.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.94*		mg/Kg wet	6.67		74.0		30-130				
Surrogate: p-Terphenyl-d14	*2.44*		mg/Kg wet	3.33		73.3		30-130				
LCS (B076432-BS1)				Prepared: 07/10/13 Analyzed: 07/20/13								
2,3,4,6-Tetrachlorophenol	1.22	0.67	mg/Kg wet	1.67		73.2		40-140		20		
Benzaldehyde	0.679	0.34	mg/Kg wet	1.67		40.7		40-140		20		
Biphenyl	1.18	0.67	mg/Kg wet	1.67		70.9		40-140		20		
Caprolactam	1.40	0.34	mg/Kg wet	1.67		84.0		40-140		20		
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140		30		
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8		40-140		30		
Acetophenone	0.964	0.34	mg/Kg wet	1.67		57.8		40-140		30	V-05	
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.9		40-140		30		
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.1		40-140		30		
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.6		40-140		30		
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.4		40-140		30	V-05	
Benzo(g,h,i)perylene	0.655	0.17	mg/Kg wet	1.67		**39.3**	*	40-140		30	L-07	
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.4		40-140		30		
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.6		40-140		30		
Bis(2-chloroethyl)ether	1.11	0.34	mg/Kg wet	1.67		66.8		40-140		30		
Bis(2-chloroisopropyl)ether	0.942	0.34	mg/Kg wet	1.67		56.5		40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	1.02	0.34	mg/Kg wet	1.67		61.2		40-140		30		
4-Bromophenylphenylether	1.32	0.34	mg/Kg wet	1.67		79.3		40-140		30		
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5		40-140		30		
Carbazole	1.35	0.17	mg/Kg wet	1.67		81.1		40-140		30		
4-Chloroaniline	0.552	0.66	mg/Kg wet	1.67		33.1		10-140		30	J	†
4-Chloro-3-methylphenol	1.21	0.66	mg/Kg wet	1.67		72.7		30-130		30		
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.2		40-140		30		
2-Chlorophenol	1.06	0.34	mg/Kg wet	1.67		63.9		30-130		30		
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		63.1		40-140		30		
Chrysene	1.23	0.17	mg/Kg wet	1.67		73.5		40-140		30		
Dibenz(a,h)anthracene	0.818	0.17	mg/Kg wet	1.67		49.1		40-140		30		
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.2		40-140		30		
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.4		40-140		30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
LCS (B076432-BS1)				Prepared: 07/10/13 Analyzed: 07/20/13								
3,3-Dichlorobenzidine	0.924	0.17	mg/Kg wet	1.67		55.4		20-140		50		†
2,4-Dichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.1		30-130		30		
Diethylphthalate	1.17	0.34	mg/Kg wet	1.67		70.4		40-140		30		
2,4-Dimethylphenol	1.28	0.34	mg/Kg wet	1.67		76.7		30-130		30		
Dimethylphthalate	1.22	0.34	mg/Kg wet	1.67		72.9		40-140		30		
4,6-Dinitro-2-methylphenol	1.45	0.34	mg/Kg wet	1.67		87.1		30-130		30		
2,4-Dinitrophenol	1.18	0.66	mg/Kg wet	1.67		70.6		30-130		30	V-06	
2,4-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.5		40-140		30		
2,6-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.5		40-140		30		
Di-n-octylphthalate	1.03	0.67	mg/Kg wet	1.67		62.0		40-140		30		
Fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.4		40-140		30		
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.1		40-140		30		
Hexachlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.9		40-140		30		
Hexachlorobutadiene	1.10	0.34	mg/Kg wet	1.67		66.3		40-140		30		
Hexachlorocyclopentadiene	0.438	0.34	mg/Kg wet	1.67		**26.3**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.940	0.34	mg/Kg wet	1.67		56.4		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	0.754	0.17	mg/Kg wet	1.67		45.3		40-140		30		
Isophorone	1.14	0.34	mg/Kg wet	1.67		68.2		40-140		30		
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.3		40-140		30		
2-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2		30-130		30		
3/4-Methylphenol	1.01	0.34	mg/Kg wet	1.67		60.5		30-130		30	V-05	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.0		40-140		30		
2-Nitroaniline	1.01	0.34	mg/Kg wet	1.67		60.3		40-140		30		
3-Nitroaniline	1.07	0.34	mg/Kg wet	1.67		64.4		30-140		30		†
4-Nitroaniline	1.16	0.34	mg/Kg wet	1.67		69.7		40-140		30		
Nitrobenzene	1.05	0.34	mg/Kg wet	1.67		63.2		40-140		30		
2-Nitrophenol	1.27	0.34	mg/Kg wet	1.67		76.1		30-130		30		
4-Nitrophenol	1.08	0.66	mg/Kg wet	1.67		64.8		30-130		50	V-05	
N-Nitrosodiphenylamine	1.51	0.34	mg/Kg wet	1.67		90.9		40-140		30		
N-Nitrosodi-n-propylamine	0.911	0.34	mg/Kg wet	1.67		54.6		40-140		30	V-05	
Pentachlorophenol	0.987	0.34	mg/Kg wet	1.67		59.2		30-130		30		
Phenanthrene	1.23	0.17	mg/Kg wet	1.67		74.0		40-140		30		
Phenol	0.917	0.34	mg/Kg wet	1.67		55.0		30-130		30		
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.1		40-140		30		
1,2,4,5-Tetrachlorobenzene	1.13	0.34	mg/Kg wet	1.67		68.1		40-140		30		
2,4,5-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.3		30-130		30		
2,4,6-Trichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.2		30-130		30		
Atrazine	1.14	0.67	mg/Kg wet	1.67		68.6		40-140		30		
Surrogate: 2-Fluorophenol	*4.29*		mg/Kg wet	6.67		64.3		30-130				
Surrogate: Phenol-d6	*4.05*		mg/Kg wet	6.67		60.7		30-130				
Surrogate: Nitrobenzene-d5	*2.19*		mg/Kg wet	3.33		65.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/Kg wet	3.33		62.6		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.38*		mg/Kg wet	6.67		95.7		30-130				
Surrogate: p-Terphenyl-d14	*2.78*		mg/Kg wet	3.33		83.3		30-130				

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
LCS Dup (B076432-BSD1)				Prepared: 07/10/13 Analyzed: 07/20/13								
2,3,4,6-Tetrachlorophenol	1.31	0.67	mg/Kg wet	1.67		78.6		40-140	7.09	20		
Benzaldehyde	0.642	0.34	mg/Kg wet	1.67		**38.5**	*	40-140	5.55	20	L-07	
Biphenyl	1.14	0.67	mg/Kg wet	1.67		68.2		40-140	3.88	20		
Caprolactam	1.43	0.34	mg/Kg wet	1.67		86.0		40-140	2.28	20		
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.2		40-140	2.16	30		
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140	1.90	30		
Acetophenone	0.933	0.34	mg/Kg wet	1.67		56.0		40-140	3.27	30	V-05	
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.3		40-140	0.827	30		
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2		40-140	2.68	30		
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140	0.307	30		
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.3		40-140	0.126	30	V-05	
Benzo(g,h,i)perylene	0.676	0.17	mg/Kg wet	1.67		40.5		40-140	3.11	30		
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.4		40-140	2.84	30		
Bis(2-chloroethoxy)methane	1.17	0.34	mg/Kg wet	1.67		70.1		40-140	4.84	30		
Bis(2-chloroethyl)ether	1.07	0.34	mg/Kg wet	1.67		64.0		40-140	4.40	30		
Bis(2-chloroisopropyl)ether	0.901	0.34	mg/Kg wet	1.67		54.1		40-140	4.38	30	V-05	
Bis(2-Ethylhexyl)phthalate	0.997	0.34	mg/Kg wet	1.67		59.8		40-140	2.18	30		
4-Bromophenylphenylether	1.27	0.34	mg/Kg wet	1.67		75.9		40-140	4.30	30		
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.3		40-140	1.59	30		
Carbazole	1.34	0.17	mg/Kg wet	1.67		80.3		40-140	0.892	30		
4-Chloroaniline	0.484	0.66	mg/Kg wet	1.67		29.1		10-140	13.1	30	J	†
4-Chloro-3-methylphenol	1.24	0.66	mg/Kg wet	1.67		74.6		30-130	2.50	30		
2-Chloronaphthalene	1.09	0.34	mg/Kg wet	1.67		65.2		40-140	1.48	30		
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.4		30-130	3.99	30		
4-Chlorophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	1.67	30		
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.3		40-140	3.12	30		
Dibenz(a,h)anthracene	0.830	0.17	mg/Kg wet	1.67		49.8		40-140	1.46	30		
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.3		40-140	0.181	30		
Di-n-butylphthalate	1.18	0.34	mg/Kg wet	1.67		71.0		40-140	3.30	30		
3,3-Dichlorobenzidine	0.882	0.17	mg/Kg wet	1.67		52.9		20-140	4.65	50		† ‡
2,4-Dichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.6		30-130	3.56	30		
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		70.9		40-140	0.793	30		
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.2		30-130	4.62	30		
Dimethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.6		40-140	0.522	30		
4,6-Dinitro-2-methylphenol	1.45	0.34	mg/Kg wet	1.67		86.8		30-130	0.253	30		
2,4-Dinitrophenol	1.29	0.66	mg/Kg wet	1.67		77.4		30-130	9.19	30	V-06	
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4		40-140	9.06	30		
2,6-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.3		40-140	3.42	30		
Di-n-octylphthalate	1.04	0.67	mg/Kg wet	1.67		62.5		40-140	0.771	30		
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.5		40-140	3.65	30		
Fluorene	1.03	0.17	mg/Kg wet	1.67		62.1		40-140	1.62	30		
Hexachlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.6		40-140	5.45	30		
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.6		40-140	5.65	30		
Hexachlorocyclopentadiene	0.453	0.34	mg/Kg wet	1.67		**27.2**	*	40-140	3.36	30	L-04, V-05	
Hexachloroethane	0.901	0.34	mg/Kg wet	1.67		54.0		40-140	4.24	30	V-05	
Indeno(1,2,3-cd)pyrene	0.763	0.17	mg/Kg wet	1.67		45.8		40-140	1.19	30		
Isophorone	1.08	0.34	mg/Kg wet	1.67		64.5		40-140	5.64	30		
2-Methylnaphthalene	0.952	0.17	mg/Kg wet	1.67		57.1		40-140	5.41	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.3		30-130	4.41	30		
3/4-Methylphenol	0.932	0.34	mg/Kg wet	1.67		55.9		30-130	7.83	30	V-05	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.7		40-140	3.69	30		
2-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.6		40-140	5.23	30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546											
LCS Dup (B076432-BSD1)				Prepared: 07/10/13 Analyzed: 07/20/13							
3-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		69.0	30-140	6.89	30		†
4-Nitroaniline	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	10.7	30		
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	2.37	30		
2-Nitrophenol	1.23	0.34	mg/Kg wet	1.67		74.0	30-130	2.77	30		
4-Nitrophenol	1.17	0.66	mg/Kg wet	1.67		70.1	30-130	7.98	50	V-05	‡
N-Nitrosodiphenylamine	1.47	0.34	mg/Kg wet	1.67		88.0	40-140	3.20	30		
N-Nitrosodi-n-propylamine	0.871	0.34	mg/Kg wet	1.67		52.3	40-140	4.41	30	V-05	
Pentachlorophenol	0.999	0.34	mg/Kg wet	1.67		59.9	30-130	1.14	30		
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	3.66	30		
Phenol	0.896	0.34	mg/Kg wet	1.67		53.8	30-130	2.28	30		
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	0.448	30		
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	3.68	30		
2,4,5-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130	3.35	30		
2,4,6-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.8	30-130	3.32	30		
Atrazine	1.18	0.67	mg/Kg wet	1.67		70.6	40-140	2.93	30		
Surrogate: 2-Fluorophenol	*4.10*		mg/Kg wet	6.67		61.4	30-130				
Surrogate: Phenol-d6	*3.84*		mg/Kg wet	6.67		57.7	30-130				
Surrogate: Nitrobenzene-d5	*2.09*		mg/Kg wet	3.33		62.6	30-130				
Surrogate: 2-Fluorobiphenyl	*1.97*		mg/Kg wet	3.33		59.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.60*		mg/Kg wet	6.67		99.0	30-130				
Surrogate: p-Terphenyl-d14	*2.74*		mg/Kg wet	3.33		82.1	30-130				

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076432 - SW-846 3546										
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13						
No TICs Found	0.0		mg/Kg wet							

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

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076464 - SW-846 8315										
Blank (B076464-BLK1)				Prepared: 07/10/13	Analyzed: 07/11/13					
Formaldehyde	ND	0.99	mg/Kg wet							
LCS (B076464-BS1)				Prepared: 07/10/13	Analyzed: 07/11/13					
Formaldehyde	5.39	0.99	mg/Kg wet	4.93		110	39-153		40	
Matrix Spike (B076464-MS1)		**Source: 13G0267-04**		Prepared: 07/10/13	Analyzed: 07/11/13					
Formaldehyde	6.08	1.2	mg/Kg dry	5.81	ND	105	39-153		40	
Matrix Spike Dup (B076464-MSD1)		**Source: 13G0267-04**		Prepared: 07/10/13	Analyzed: 07/11/13					
Formaldehyde	5.87	1.2	mg/Kg dry	5.82	ND	101	39-153	3.42	40	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076403 - SW-846 3050B										
Blank (B076403-BLK1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	0.16	0.25	mg/Kg wet							J
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B076403-BS1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Antimony	125	5.0	mg/Kg wet	106		118	8.2-218.9		30	
Arsenic	191	5.0	mg/Kg wet	182		105	83-117.6		30	
Beryllium	108	0.50	mg/Kg wet	98.3		109	83.9-116		30	
Cadmium	64.6	0.50	mg/Kg wet	60.4		107	83.1-116.9		30	
Chromium	133	0.99	mg/Kg wet	125		106	81.6-117.6		30	
Copper	83.4	0.99	mg/Kg wet	80.1		104	83.8-116.1		30	
Lead	129	1.5	mg/Kg wet	136		95.2	82.4-117.8		30	
Manganese	295	0.99	mg/Kg wet	279		106	82.8-117.5		30	
Nickel	129	0.99	mg/Kg wet	128		100	84.4-115.6		30	
Selenium	92.7	9.9	mg/Kg wet	85.9		108	80-120		30	
Silver	59.2	0.99	mg/Kg wet	61.3		96.6	66.2-133.8		30	
Thallium	144	5.0	mg/Kg wet	144		100	81.2-118.8		30	
Zinc	210	2.0	mg/Kg wet	204		103	81.9-117.6		30	
LCS Dup (B076403-BSD1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Antimony	122	5.0	mg/Kg wet	106		115	8.2-218.9	2.89	30	
Arsenic	190	5.0	mg/Kg wet	182		104	83-117.6	0.650	30	
Beryllium	104	0.50	mg/Kg wet	98.3		106	83.9-116	2.91	30	
Cadmium	64.4	0.50	mg/Kg wet	60.4		107	83.1-116.9	0.378	30	
Chromium	134	1.0	mg/Kg wet	125		107	81.6-117.6	0.951	30	
Copper	82.8	1.0	mg/Kg wet	80.1		103	83.8-116.1	0.779	30	
Lead	129	1.5	mg/Kg wet	136		95.1	82.4-117.8	0.0648	30	
Manganese	293	1.0	mg/Kg wet	279		105	82.8-117.5	0.799	30	
Nickel	128	1.0	mg/Kg wet	128		100	84.4-115.6	0.381	30	
Selenium	92.0	10	mg/Kg wet	85.9		107	80-120	0.713	30	
Silver	58.6	1.0	mg/Kg wet	61.3		95.5	66.2-133.8	1.12	30	
Thallium	143	5.0	mg/Kg wet	144		99.3	81.2-118.8	0.990	30	
Zinc	209	2.0	mg/Kg wet	204		102	81.9-117.6	0.510	30	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B076403 - SW-846 3050B												
Duplicate (B076403-DUP1)		**Source: 13G0267-03**		Prepared: 07/09/13 Analyzed: 07/10/13								
Antimony	ND	3.0	mg/Kg dry		ND				NC		35	
Arsenic	ND	3.0	mg/Kg dry		ND				NC		35	
Beryllium	ND	1.5	mg/Kg dry		ND				NC		35	
Cadmium	0.735	0.30	mg/Kg dry		0.832				12.3		35	B
Chromium	33.3	0.61	mg/Kg dry		22.0				**41.0**	*	35	R-02
Copper	33.6	0.61	mg/Kg dry		30.4				10.0		35	
Lead	6.60	0.91	mg/Kg dry		8.67				27.1		35	
Manganese	488	0.61	mg/Kg dry		591				19.2		35	
Nickel	12.4	0.61	mg/Kg dry		8.66				**35.6**	*	35	R-02
Selenium	ND	6.1	mg/Kg dry		ND				NC		35	
Silver	ND	0.61	mg/Kg dry		ND				NC		35	
Thallium	ND	3.0	mg/Kg dry		ND				NC		35	
Zinc	51.7	1.2	mg/Kg dry		55.2				6.47		35	
MRL Check (B076403-MRL1)				Prepared: 07/09/13 Analyzed: 07/10/13								
Lead	0.820	0.71	mg/Kg wet	0.707		116		80-120				
Matrix Spike (B076403-MS1)		**Source: 13G0267-03**		Prepared: 07/09/13 Analyzed: 07/10/13								
Antimony	34.8	2.9	mg/Kg dry	116	ND	**30.0**	*	75-125			35	MS-07
Arsenic	108	2.9	mg/Kg dry	116	ND	92.8		75-125			35	
Beryllium	116	0.29	mg/Kg dry	116	ND	99.6		75-125			35	
Cadmium	113	0.29	mg/Kg dry	116	0.832	97.0		75-125			35	
Chromium	134	0.58	mg/Kg dry	116	22.0	96.4		75-125			35	
Copper	146	0.58	mg/Kg dry	116	30.4	99.9		75-125			35	
Lead	116	0.87	mg/Kg dry	116	8.67	92.0		75-125			35	
Manganese	844	0.58	mg/Kg dry	116	591	**217**	*	75-125			35	MS-19
Nickel	114	0.58	mg/Kg dry	116	8.66	91.0		75-125			35	
Selenium	114	5.8	mg/Kg dry	116	ND	98.2		75-125			35	
Silver	106	0.58	mg/Kg dry	116	ND	91.1		75-125			35	
Thallium	107	2.9	mg/Kg dry	116	ND	92.0		75-125			35	
Zinc	165	1.2	mg/Kg dry	116	55.2	94.3		75-125			35	
Batch B076404 - SW-846 7471												
Blank (B076404-BLK1)				Prepared: 07/09/13 Analyzed: 07/10/13								
Mercury	0.0021	0.025	mg/Kg wet									J
LCS (B076404-BS1)				Prepared: 07/09/13 Analyzed: 07/10/13								
Mercury	3.77	0.33	mg/Kg wet	4.05		93.2		71.6-128.1			30	
LCS Dup (B076404-BSD1)				Prepared: 07/09/13 Analyzed: 07/10/13								
Mercury	3.89	0.33	mg/Kg wet	4.05		96.0		71.6-128.1	2.95		30	

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076404 - SW-846 7471										
Duplicate (B076404-DUP1)		**Source: 13G0267-03**		Prepared: 07/09/13 Analyzed: 07/10/13						
Mercury	0.0152	0.031	mg/Kg dry		0.0134			12.8	35	J, B
Matrix Spike (B076404-MS1)		**Source: 13G0267-03**		Prepared: 07/09/13 Analyzed: 07/10/13						
Mercury	0.207	0.030	mg/Kg dry	0.200	0.0134	96.6	75-125		35	

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076919 - % Solids										
Duplicate (B076919-DUP3)		**Source: 13G0267-06**		Prepared: 07/17/13 Analyzed: 07/18/13						
% Solids	82.3		% Wt		84.0			2.04	20	

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
RL-01	Elevated reporting limit due to high concentration of target compounds. Requested reporting limit not met.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

ANALYST

SMC	Steven M. Case
SAJ	Shamika A. Johnson
RH	Robert H. Witherell
PEB	Paula E. Blakeborough
OP	Ornela Piluri
MJH	Matthew J. Hammond
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
KSH	Karen S. Hawks
JMP	Jessica M. Pace
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
ALB	Aaron L. Benoit

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
1,4-Dioxane	NC

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

CERTIFICATIONS

Certified Analyses included in this Report

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

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8315 in Soil	
Formaldehyde	NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

1360267

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: HW Storage/Satellite Storage
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	TCL VOC & 10 largest non-target peaks (TICs) (SW-846 8260B)	TCL SVOC & 10 largest non-target peaks (TICs) (SW-846 8270D)	Formaldehyde (SW-846 8315A)	Metals[1] (SW-846 6010C)					Comments
Trip Blank	-	-	Lab	S	3	2	1				x								
FS-1	7/8/13	1320	BM	S	6	2	1			3	x	x	x	x					
FS-2		1340		S	6	2	1			3	x	x	x	x					
FS-3		1350		S	6	2	1			3	x	x	x	x					
FS-5		1410		S	6	2	1			3	x	x	x	x					
FS-6		1440		S	6	2	1			3	x	x	x	x					
FS-7		1300		S	6	2	1			3	x	x	x	x					
FS-8		1510		S	6	2	1			3	x	x	x	x					
Dup-2	7/8/13	1420		S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).
(1) Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc.
VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/8/13 1830	1 Fed-X	2	7-9-13 9:49	2 Paula Blakeborough
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

07-09-13 12:13 IN

FedEx

875382506890

Ship (P/U) date :
Mon 7/08/2013 4:13 pm
VALLEY COTTAGE, NY US

Delivered
Signed for by: P BLAKE

Actual delivery :
Tues 7/09/2013 9:49 am
MA US

Travel History

Date/Time	Activity	Location
- 7/09/2013 - Tuesday		
9:49 am	Delivered	MA
8:04 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:11 am	At local FedEx facility	WINDSOR LOCKS, CT
3:38 am	Departed FedEx location	NEWARK, NJ
- 7/08/2013 - Monday		
11:10 pm	Arrived at FedEx location	NEWARK, NJ
9:17 pm	Left FedEx origin facility	RONKONKOMA, NY
4:13 pm	Picked up	RONKONKOMA, NY

Local Scan Time

Shipment Facts

Tracking number	875382506890	**Service**	FedEx Priority Overnight
Weight	43 lbs	**Dimensions**	16x14x10 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	43 lbs / 19.5 kgs	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.9.13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

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

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank 2 Temperature °C by Temp gun _____

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

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: Log in

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

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

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

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	8
500 mL Amber		4 oz amber/clear jar	8
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 17
Bisulfate _____ # DI Water 18
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-09-13 12:13 IN

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

July 24, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: HW Storage/Satellite Storage, Lenoir, NC
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 13G0267

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/24/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0267

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

PROJECT LOCATION: HW Storage/Satellite Storage, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0267-01	Trip Blank Soil		SW-846 8260B	
				SW-846 8260C	
FS-1	13G0267-02	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-2	13G0267-03	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-3	13G0267-04	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-5	13G0267-05	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-6	13G0267-06	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/24/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0267

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

PROJECT LOCATION: HW Storage/Satellite Storage, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
FS-7	13G0267-07	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
FS-8	13G0267-08	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
Dup-2	13G0267-09	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	

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

CASE NARRATIVE SUMMARY

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

SW-846 6010C

Qualifications:

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

Analyte & Samples(s) Qualified:

Cadmium

13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2], B076403-DUP1

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

Analyte & Samples(s) Qualified:

Antimony

13G0267-03[FS-2], B076403-MS1

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

Analyte & Samples(s) Qualified:

Manganese

13G0267-03[FS-2], B076403-MS1

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

Analyte & Samples(s) Qualified:

Chromium, Nickel

13G0267-03[FS-2], B076403-DUP1

SW-846 7471B

Qualifications:

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

Analyte & Samples(s) Qualified:

Mercury

13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2], B076404-DUP1

SW-846 8260B

Qualifications:

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

Analyte & Samples(s) Qualified:

1,2-Dichloroethane-d4

13G0267-02[FS-1], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2]

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

13G0267-01[Trip Blank], 13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2], B076479-BLK1, B076479-BS1, B076479-BSD1

SW-846 8270D

Qualifications:

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

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-06[FS-6], 13G0267-07[FS-7], 13G0267-08[FS-8], 13G0267-09[Dup-2], B076432-BLK1, B076432-BS1, B076432-BSD1

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

Analyte & Samples(s) Qualified:

Benzaldehyde, Benzo(g,h,i)perylene

B076432-BSD1, B076432-BS1

Elevated reporting limit due to high concentration of target compounds. Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate

13G0267-07[FS-7]

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

Analyte & Samples(s) Qualified:

2,4,5-Trichlorophenol, 2-Nitroaniline, 3/4-Methylphenol, 4-Nitrophenol, Acetophenone, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Bis(2-chloroisopropyl)ether, Di-n-octylphthalate, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine

13G0267-06[FS-6], 13G0267-02[FS-1], 13G0267-03[FS-2], 13G0267-04[FS-3], 13G0267-05[FS-5], 13G0267-08[FS-8], B076432-BLK1, B076432-BS1, B076432-BSD1, 13G0267-07[FS-7], 13G0267-09[Dup-2]

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076432-BS1, B076432-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0267-06[FS-6], 13G0267-07[FS-7]

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 2-Chloronaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol

13G0267-09[Dup-2], B076432-BLK1

---

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

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

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/8/2013 00:00

Sample ID: 13G0267-01

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Carbon Disulfide	ND	0.0060	0.0033	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg wet	1	V-16	SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,2,4-Trichlorobenzene	ND	0.0040	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/8/2013 00:00

Sample ID: 13G0267-01

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Trichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 11:59	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	122	70-130		7/10/13 11:59
Toluene-d8	98.6	70-130		7/10/13 11:59
4-Bromofluorobenzene	86.3	70-130		7/10/13 11:59

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/8/2013 00:00

Sample ID: 13G0267-01

Sample Matrix: Trip Blank Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg wet			1		SW-846 8260C	7/10/13	7/10/13 11:59	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Carbon Disulfide	ND	0.0070	0.0038	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Cyclohexane	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Methyl Acetate	ND	0.0023	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Methylene Chloride	ND	0.023	0.0083	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,2,4-Trichlorobenzene	ND	0.0046	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**131** *	70-130	S-17	7/10/13 12:27
Toluene-d8	98.9	70-130		7/10/13 12:27
4-Bromofluorobenzene	86.5	70-130		7/10/13 12:27

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 12:27	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Acetophenone	ND	0.41	0.098	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Nitroaniline	ND	0.41	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR
Atrazine	ND	0.80	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 14:55	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	56.2	30-130		7/21/13 14:55
Phenol-d6	56.6	30-130		7/21/13 14:55
Nitrobenzene-d5	62.5	30-130		7/21/13 14:55
2-Fluorobiphenyl	57.2	30-130		7/21/13 14:55
2,4,6-Tribromophenol	77.1	30-130		7/21/13 14:55
p-Terphenyl-d14	79.6	30-130		7/21/13 14:55

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexanedioic acid, bis(2-eth...	0.29	mg/Kg dry	350668	14.624	1	000103-23-1	SW-846 8270D	7/10/13	7/21/13 14:55	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.67	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 16:21	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	2.3	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Arsenic	ND	2.9	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Beryllium	ND	0.29	0.047	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:07	OP
Cadmium	0.69	0.29	0.17	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:11	OP
Chromium	20	0.58	0.15	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Copper	25	0.58	0.44	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Lead	15	0.87	0.40	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:07	OP
Manganese	840	0.58	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Mercury	0.020	0.030	0.0019	mg/Kg dry	1	B, J	SW-846 7471B	7/9/13	7/10/13 12:39	SAJ
Nickel	7.4	0.58	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Selenium	ND	5.8	0.90	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:02	OP
Silver	ND	0.58	0.51	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Thallium	ND	2.9	0.96	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP
Zinc	47	1.2	0.30	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:11	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-1 Sampled: 7/8/2013 13:20

Sample ID: 13G0267-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.2		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.029	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Benzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Bromodichloromethane	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Bromomethane	ND	0.012	0.0021	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
2-Butanone (MEK)	ND	0.049	0.021	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Carbon Disulfide	ND	0.0073	0.0040	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Carbon Tetrachloride	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chlorodibromomethane	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chloroform	ND	0.0049	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Cyclohexane	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1-Dichloroethane	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1-Dichloroethylene	ND	0.0049	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,4-Dioxane	ND	0.12	0.070	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Ethylbenzene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Methyl Acetate	ND	0.0024	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0049	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Methylene Chloride	0.0088	0.024	0.0087	mg/Kg dry	1	J	SW-846 8260B	7/10/13	7/10/13 12:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Styrene	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Toluene	ND	0.0024	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,2,4-Trichlorobenzene	ND	0.0049	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
m+p Xylene	ND	0.0049	0.0021	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF
o-Xylene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 12:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	123	70-130		7/10/13 12:55
Toluene-d8	102	70-130		7/10/13 12:55
4-Bromofluorobenzene	84.9	70-130		7/10/13 12:55

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 12:55	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.82	0.42	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzaldehyde	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Biphenyl	ND	0.82	0.52	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Caprolactam	ND	0.42	0.32	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Acetophenone	ND	0.42	0.10	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(a)anthracene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(a)pyrene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Bis(2-Ethylhexyl)phthalate	4.3	0.42	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Carbazole	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Chloroaniline	ND	0.81	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Chloro-3-methylphenol	ND	0.81	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Chrysene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Dibenzofuran	ND	0.42	0.097	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4-Dinitrophenol	ND	0.81	0.42	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4-Dinitrotoluene	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,6-Dinitrotoluene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Di-n-octylphthalate	ND	0.82	0.57	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Hexachlorocyclopentadiene	ND	0.42	0.28	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Naphthalene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Nitroaniline	ND	0.42	0.29	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
3-Nitroaniline	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Nitroaniline	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
4-Nitrophenol	ND	0.81	0.73	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4,5-Trichlorophenol	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Atrazine	ND	0.82	0.69	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:04	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	59.2	30-130		7/21/13 17:04
Phenol-d6	57.9	30-130		7/21/13 17:04
Nitrobenzene-d5	65.9	30-130		7/21/13 17:04
2-Fluorobiphenyl	63.0	30-130		7/21/13 17:04
2,4,6-Tribromophenol	84.4	30-130		7/21/13 17:04
p-Terphenyl-d14	93.3	30-130		7/21/13 17:04

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	1.5	mg/Kg dry	1517410	14.56	1	000301-02-0	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Hexadecanoic acid, butyl ester	0.26	mg/Kg dry	268414	13.795	1	000111-06-8	SW-846 8270D	7/10/13	7/21/13 17:04	CMR
Phthalic anhydride	0.18	mg/Kg dry	201191	9.819	1	000085-44-9	SW-846 8270D	7/10/13	7/21/13 17:04	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.67	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 16:33	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	2.3	mg/Kg dry	1	MS-07	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Arsenic	ND	2.9	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Beryllium	ND	0.29	0.046	mg/Kg dry	1		SW-846 6010C	7/9/13	7/16/13 18:35	KSH
Cadmium	0.83	0.29	0.17	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Chromium	22	0.57	0.14	mg/Kg dry	1	R-02	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Copper	30	0.57	0.43	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Lead	8.7	0.86	0.39	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Manganese	590	0.57	0.18	mg/Kg dry	1	MS-19	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Mercury	0.013	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:45	SAJ
Nickel	8.7	0.57	0.14	mg/Kg dry	1	R-02	SW-846 6010C	7/9/13	7/10/13 12:42	OP
Selenium	ND	5.7	0.88	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Silver	ND	0.57	0.50	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Thallium	ND	2.9	0.95	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP
Zinc	55	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/10/13 12:42	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-2 Sampled: 7/8/2013 13:40

Sample ID: 13G0267-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.3		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Benzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Bromodichloromethane	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
2-Butanone (MEK)	ND	0.052	0.023	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Carbon Disulfide	ND	0.0078	0.0043	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chlorodibromomethane	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chloroethane	ND	0.026	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chloroform	ND	0.0052	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Cyclohexane	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1-Dichloroethane	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1-Dichloroethylene	ND	0.0052	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,4-Dioxane	ND	0.13	0.075	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Methylene Chloride	0.017	0.026	0.0093	mg/Kg dry	1	J	SW-846 8260B	7/10/13	7/10/13 13:23	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0099	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Styrene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,2,4-Trichlorobenzene	ND	0.0052	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Trichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
m+p Xylene	ND	0.0052	0.0022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF
o-Xylene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:23	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	130	70-130		7/10/13 13:23
Toluene-d8	102	70-130		7/10/13 13:23
4-Bromofluorobenzene	86.8	70-130		7/10/13 13:23

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 13:23	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Acetophenone	ND	0.41	0.098	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Nitroaniline	ND	0.41	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Atrazine	ND	0.80	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 17:36	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	47.2	30-130		7/21/13 17:36
Phenol-d6	44.2	30-130		7/21/13 17:36
Nitrobenzene-d5	50.7	30-130		7/21/13 17:36
2-Fluorobiphenyl	48.9	30-130		7/21/13 17:36
2,4,6-Tribromophenol	64.2	30-130		7/21/13 17:36
p-Terphenyl-d14	75.3	30-130		7/21/13 17:36

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexadecanoic acid, butyl ester	0.26	mg/Kg dry	237414	13.795	1	000111-06-8	SW-846 8270D	7/10/13	7/21/13 17:36	CMR
Octadecanoic acid, butyl ester	0.19	mg/Kg dry	172466	14.613	1	000123-95-5	SW-846 8270D	7/10/13	7/21/13 17:36	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.66	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 16:45	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.2	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Beryllium	ND	0.28	0.045	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:12	OP
Cadmium	0.69	0.28	0.16	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:16	OP
Chromium	47	0.56	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Copper	39	0.56	0.43	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Lead	14	0.84	0.39	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:12	OP
Manganese	520	0.56	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Mercury	0.016	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:46	SAJ
Nickel	13	0.56	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Selenium	ND	5.6	0.86	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:07	OP
Silver	ND	0.56	0.49	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Thallium	ND	2.8	0.93	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP
Zinc	44	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:16	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-3 Sampled: 7/8/2013 13:50

Sample ID: 13G0267-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Carbon Disulfide	ND	0.0069	0.0038	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Cyclohexane	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Methyl Acetate	ND	0.0023	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,2,4-Trichlorobenzene	ND	0.0046	0.00093	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 13:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**136** *	70-130	S-17	7/10/13 13:51
Toluene-d8	97.8	70-130		7/10/13 13:51
4-Bromofluorobenzene	84.6	70-130		7/10/13 13:51

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 13:51	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Acenaphthylene	ND	0.21	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Acetophenone	ND	0.41	0.099	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(a)anthracene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(a)pyrene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Bis(2-Ethylhexyl)phthalate	1.7	0.41	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Carbazole	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Chloroaniline	ND	0.80	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Chloro-3-methylphenol	ND	0.80	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Chrysene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Dibenzofuran	ND	0.41	0.096	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Di-n-butylphthalate	ND	0.41	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4-Dinitrophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Di-n-octylphthalate	ND	0.81	0.56	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Naphthalene	ND	0.21	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Nitroaniline	ND	0.41	0.29	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
4-Nitrophenol	ND	0.80	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
2,4,6-Trichlorophenol	ND	0.41	0.27	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:27	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	52.6	30-130		7/21/13 15:27
Phenol-d6	51.5	30-130		7/21/13 15:27
Nitrobenzene-d5	57.8	30-130		7/21/13 15:27
2-Fluorobiphenyl	54.5	30-130		7/21/13 15:27
2,4,6-Tribromophenol	71.4	30-130		7/21/13 15:27
p-Terphenyl-d14	74.3	30-130		7/21/13 15:27

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexadecanoic acid, 1,1-dime...	0.25	mg/Kg dry	294258	13.795	1	031158-91-5	SW-846 8270D	7/10/13	7/21/13 15:27	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.69	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 17:54	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.3	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Beryllium	ND	0.28	0.046	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:17	OP
Cadmium	0.68	0.28	0.17	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:21	OP
Chromium	21	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Copper	24	0.57	0.43	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Lead	15	0.85	0.39	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:17	OP
Manganese	630	0.57	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Mercury	0.0085	0.029	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:48	SAJ
Nickel	7.9	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Selenium	ND	5.7	0.87	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:11	OP
Silver	ND	0.57	0.50	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Thallium	ND	2.8	0.94	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP
Zinc	48	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:21	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-5 Sampled: 7/8/2013 14:10

Sample ID: 13G0267-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.7		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Benzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Bromochloromethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Bromodichloromethane	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Bromoform	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Carbon Disulfide	ND	0.0062	0.0034	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Carbon Tetrachloride	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chlorodibromomethane	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chloroethane	ND	0.021	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chloroform	ND	0.0041	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Chloromethane	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Cyclohexane	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1-Dichloroethane	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2-Dichloropropane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,4-Dioxane	ND	0.10	0.059	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Ethylbenzene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
2-Hexanone (MBK)	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Methyl Acetate	ND	0.0021	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Methyl Cyclohexane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Methylene Chloride	ND	0.021	0.0073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Styrene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Tetrachloroethylene	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Toluene	ND	0.0021	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00062	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,2,4-Trichlorobenzene	ND	0.0041	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0021	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Trichloroethylene	ND	0.0021	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF
o-Xylene	ND	0.0021	0.00072	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:19	MFF

Surrogates	% Recovery		Recovery Limits	Flag	
1,2-Dichloroethane-d4	**135**	*	70-130	S-17	7/10/13 14:19
Toluene-d8	95.9		70-130		7/10/13 14:19
4-Bromofluorobenzene	82.5		70-130		7/10/13 14:19

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 14:19	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.80	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR
Biphenyl	ND	0.80	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR
Caprolactam	ND	0.40	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Acetophenone	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(a)anthracene	0.22	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(a)pyrene	0.18	0.20	0.071	mg/Kg dry	1	J	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Bis(2-Ethylhexyl)phthalate	0.14	0.40	0.090	mg/Kg dry	1	J	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Bromophenylphenylether	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Chloronaphthalene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Chrysene	0.21	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Dibenzofuran	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4-Dinitrophenol	ND	0.79	0.40	mg/Kg dry	1	V-19	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4-Dinitrotoluene	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,6-Dinitrotoluene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Di-n-octylphthalate	ND	0.80	0.55	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Hexachlorocyclopentadiene	ND	0.40	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/23/13 16:31	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Naphthalene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Nitroaniline	ND	0.40	0.28	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
3-Nitroaniline	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Nitroaniline	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
N-Nitrosodiphenylamine	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Phenanthrene	0.18	0.20	0.11	mg/Kg dry	1	J	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Pyrene	0.31	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4,5-Trichlorophenol	ND	0.40	0.21	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Atrazine	ND	0.80	0.67	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 18:08	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	50.2	30-130		7/23/13 16:31
Phenol-d6	60.3	30-130		7/23/13 16:31
Nitrobenzene-d5	54.3	30-130		7/23/13 16:31
2-Fluorobiphenyl	68.0	30-130		7/23/13 16:31
2,4,6-Tribromophenol	53.4	30-130		7/23/13 16:31
p-Terphenyl-d14	73.1	30-130		7/23/13 16:31

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.87	mg/Kg dry	513637	14.108	1	000301-02-0	SW-846 8270D	7/10/13	7/23/13 16:31	CMR
Octadecane	0.16	mg/Kg dry	80162	16.3	1	000593-45-3	SW-846 8270D	7/10/13	7/23/13 16:31	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.1	0.65	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 18:06	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.2	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Arsenic	ND	2.8	0.99	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Beryllium	ND	0.28	0.044	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:35	OP
Cadmium	0.68	0.28	0.16	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:25	OP
Chromium	45	0.55	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Copper	37	0.55	0.42	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Lead	14	0.83	0.38	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:35	OP
Manganese	610	0.55	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Mercury	0.019	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:50	SAJ
Nickel	18	0.55	0.13	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Selenium	ND	5.5	0.85	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:16	OP
Silver	ND	0.55	0.48	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Thallium	ND	2.8	0.91	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP
Zinc	46	1.1	0.28	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:25	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-6 Sampled: 7/8/2013 14:40

Sample ID: 13G0267-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Benzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Bromochloromethane	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Bromodichloromethane	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Bromoform	ND	0.0022	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
2-Butanone (MEK)	ND	0.045	0.019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Carbon Disulfide	ND	0.0067	0.0037	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Carbon Tetrachloride	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chlorodibromomethane	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chloroethane	ND	0.022	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chloroform	ND	0.0045	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Chloromethane	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Cyclohexane	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1-Dichloroethane	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1-Dichloroethylene	ND	0.0045	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,4-Dioxane	ND	0.11	0.064	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Ethylbenzene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
2-Hexanone (MBK)	ND	0.022	0.012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Methyl Acetate	ND	0.0022	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Methyl Cyclohexane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Methylene Chloride	ND	0.022	0.0079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	0.0085	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Styrene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Toluene	ND	0.0022	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00067	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,2,4-Trichlorobenzene	ND	0.0045	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Trichloroethylene	ND	0.0022	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF
o-Xylene	ND	0.0022	0.00078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 14:48	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**135** *	70-130	S-17	7/10/13 14:48
Toluene-d8	99.9	70-130		7/10/13 14:48
4-Bromofluorobenzene	81.6	70-130		7/10/13 14:48

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 14:48	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.83	0.42	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR
Benzaldehyde	ND	0.42	0.40	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR
Biphenyl	ND	0.83	0.53	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR
Caprolactam	ND	0.42	0.32	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR
Acenaphthene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Acetophenone	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(a)anthracene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(a)pyrene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Bis(2-Ethylhexyl)phthalate	18	2.1	0.47	mg/Kg dry	5	RL-01	SW-846 8270D	7/10/13	7/22/13 16:02	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Carbazole	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Chloroaniline	ND	0.82	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Chloro-3-methylphenol	ND	0.82	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Chrysene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Dibenzofuran	ND	0.42	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4-Dinitrophenol	ND	0.82	0.42	mg/Kg dry	1	V-19	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4-Dinitrotoluene	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,6-Dinitrotoluene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Di-n-octylphthalate	ND	0.83	0.57	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Hexachlorocyclopentadiene	ND	0.42	0.28	mg/Kg dry	1	L-04	SW-846 8270D	7/10/13	7/22/13 15:00	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Naphthalene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Nitroaniline	ND	0.42	0.29	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
3-Nitroaniline	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Nitroaniline	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
4-Nitrophenol	ND	0.82	0.74	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.42	0.25	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4,5-Trichlorophenol	ND	0.42	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Atrazine	ND	0.83	0.70	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 11:55	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	49.7	30-130		7/22/13 15:00
Phenol-d6	49.1	30-130		7/22/13 15:00
Nitrobenzene-d5	49.7	30-130		7/22/13 15:00
2-Fluorobiphenyl	61.0	30-130		7/22/13 15:00
2,4,6-Tribromophenol	44.9	30-130		7/22/13 15:00
p-Terphenyl-d14	56.5	30-130		7/22/13 15:00

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.56	mg/Kg dry	246534	14.123	1	000301-02-0	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
n-Hexadecanoic acid	0.37	mg/Kg dry	145846	11.171	1	000057-10-3	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Octadecanoic acid	0.26	mg/Kg dry	112889	12.714	1	000057-11-4	SW-846 8270D	7/10/13	7/22/13 15:00	CMR
Phthalic anhydride	0.82	mg/Kg dry	423041	6.057	1	000085-44-9	SW-846 8270D	7/10/13	7/22/13 15:00	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	0.87	1.2	0.69	mg/Kg dry	1	J	SW-846 8315	7/10/13	7/11/13 18:18	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	2.4	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Arsenic	ND	3.0	1.1	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Beryllium	ND	0.30	0.048	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:40	OP
Cadmium	0.93	0.30	0.18	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:30	OP
Chromium	21	0.60	0.15	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Copper	120	0.60	0.45	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Lead	34	0.89	0.41	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:40	OP
Manganese	480	0.60	0.19	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Mercury	0.022	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:51	SAJ
Nickel	9.3	0.60	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Selenium	ND	6.0	0.92	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:21	OP
Silver	ND	0.60	0.52	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Thallium	ND	3.0	0.99	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP
Zinc	110	1.2	0.31	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:30	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-7 Sampled: 7/8/2013 13:00

Sample ID: 13G0267-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Carbon Disulfide	ND	0.0061	0.0034	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Carbon Tetrachloride	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chloroform	ND	0.0041	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Chloromethane	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Cyclohexane	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,4-Dioxane	ND	0.10	0.059	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Ethylbenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Methylene Chloride	ND	0.020	0.0073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Toluene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,2,4-Trichlorobenzene	ND	0.0041	0.00082	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Trichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00092	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:16	MFF

Surrogates	% Recovery		Recovery Limits	Flag	
1,2-Dichloroethane-d4	**136**	*	70-130	S-17	7/10/13 15:16
Toluene-d8	102		70-130		7/10/13 15:16
4-Bromofluorobenzene	83.2		70-130		7/10/13 15:16

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 15:16	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.40	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Acenaphthylene	ND	0.20	0.096	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Acetophenone	ND	0.40	0.096	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(a)anthracene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(a)pyrene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(b)fluoranthene	ND	0.20	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Bis(2-Ethylhexyl)phthalate	0.44	0.40	0.089	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Bromophenylphenylether	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Chloroaniline	ND	0.77	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Chloro-3-methylphenol	ND	0.77	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Chloronaphthalene	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Chlorophenylphenylether	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Dibenzofuran	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4-Dimethylphenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Dimethylphthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4-Dinitrophenol	ND	0.77	0.40	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4-Dinitrotoluene	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,6-Dinitrotoluene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Di-n-octylphthalate	ND	0.79	0.55	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Isophorone	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Naphthalene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Nitroaniline	ND	0.40	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
3-Nitroaniline	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Nitroaniline	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
4-Nitrophenol	ND	0.77	0.70	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
N-Nitrosodiphenylamine	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.23	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4,5-Trichlorophenol	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Atrazine	ND	0.79	0.66	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 15:59	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	56.6	30-130		7/21/13 15:59
Phenol-d6	55.6	30-130		7/21/13 15:59
Nitrobenzene-d5	60.1	30-130		7/21/13 15:59
2-Fluorobiphenyl	58.6	30-130		7/21/13 15:59
2,4,6-Tribromophenol	78.7	30-130		7/21/13 15:59
p-Terphenyl-d14	79.2	30-130		7/21/13 15:59

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.78	mg/Kg dry	885212	14.554	1	000301-02-0	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
eicosane	0.36	mg/Kg dry	392176	13.06	1	000112-95-8	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Heptadecane	1.0	mg/Kg dry	1113240	11.801	1	000629-78-7	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Heptadecane, 2,6,10,15-tetr... (01)	0.16	mg/Kg dry	289928	11.148	1	054833-48-6	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Heptadecane, 2,6,10,15-tetr... (02)	0.20	mg/Kg dry	219526	13.454	1	054833-48-6	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexadecane	0.62	mg/Kg dry	1153060	11.33	1	000544-76-3	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Hexadecane, 2,6,10,14-tetra...	0.27	mg/Kg dry	296490	12.272	1	000638-36-8	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Pentadecane, 2,6,10-trimethyl-	0.36	mg/Kg dry	665065	11.548	1	003892-00-0	SW-846 8270D	7/10/13	7/21/13 15:59	CMR
Tetradecane	0.57	mg/Kg dry	626672	12.242	1	000629-59-4	SW-846 8270D	7/10/13	7/21/13 15:59	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.1	0.66	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 18:30	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.3	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Beryllium	ND	0.28	0.046	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:45	OP
Cadmium	0.68	0.28	0.17	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:34	OP
Chromium	32	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Copper	47	0.57	0.43	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Lead	24	0.85	0.39	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:45	OP
Manganese	440	0.57	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Mercury	0.012	0.029	0.0018	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:53	SAJ
Nickel	13	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Selenium	ND	5.7	0.88	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 16:25	OP
Silver	ND	0.57	0.50	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Thallium	ND	2.8	0.94	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP
Zinc	57	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:34	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: FS-8 Sampled: 7/8/2013 15:10

Sample ID: 13G0267-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Benzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Bromochloromethane	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Bromodichloromethane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Bromoform	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
2-Butanone (MEK)	ND	0.051	0.022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Carbon Disulfide	ND	0.0076	0.0042	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Carbon Tetrachloride	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chlorodibromomethane	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chloroethane	ND	0.025	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chloroform	ND	0.0051	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Chloromethane	ND	0.013	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Cyclohexane	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,4-Dichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1-Dichloroethane	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dichloroethane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2-Dichloropropane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,4-Dioxane	ND	0.13	0.073	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Ethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
2-Hexanone (MBK)	ND	0.025	0.014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Methyl Acetate	ND	0.0025	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Methyl Cyclohexane	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Methylene Chloride	ND	0.025	0.0090	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.0096	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Styrene	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Tetrachloroethylene	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Toluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2,3-Trichlorobenzene	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,2,4-Trichlorobenzene	ND	0.0051	0.0010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1,2-Trichloroethane	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Trichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF
o-Xylene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 15:44	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	**134** *	70-130	S-17	7/10/13 15:44
Toluene-d8	101	70-130		7/10/13 15:44
4-Bromofluorobenzene	84.0	70-130		7/10/13 15:44

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 15:44	MFF

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Acenaphthylene	ND	0.20	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Acetophenone	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(a)anthracene	ND	0.20	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Di-n-octylphthalate	ND	0.81	0.56	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/22/13 10:50	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Nitroaniline	ND	0.41	0.28	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
4-Nitrophenol	ND	0.79	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 10:50	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	50.2	30-130		7/22/13 10:50
Phenol-d6	51.5	30-130		7/22/13 10:50
Nitrobenzene-d5	56.0	30-130		7/22/13 10:50
2-Fluorobiphenyl	54.9	30-130		7/22/13 10:50
2,4,6-Tribromophenol	70.8	30-130		7/22/13 10:50
p-Terphenyl-d14	72.0	30-130		7/22/13 10:50

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.61	mg/Kg dry	995337	14.551	1	000301-02-0	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Hexadecanoic acid, 1,1-dime...	0.21	mg/Kg dry	338517	13.792	1	031158-91-5	SW-846 8270D	7/10/13	7/22/13 10:50	CMR
Octadecanoic acid, butyl ester	0.17	mg/Kg dry	276738	14.604	1	000123-95-5	SW-846 8270D	7/10/13	7/22/13 10:50	CMR

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.68	mg/Kg dry	1		SW-846 8315	7/10/13	7/11/13 18:41	JMP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.2	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Beryllium	ND	0.28	0.045	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:50	OP
Cadmium	0.63	0.28	0.16	mg/Kg dry	1	B	SW-846 6010C	7/9/13	7/11/13 22:39	OP
Chromium	15	0.56	0.14	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Copper	27	0.56	0.42	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Lead	14	0.83	0.38	mg/Kg dry	1		SW-846 6010C	7/9/13	7/12/13 11:50	OP
Manganese	770	0.56	0.18	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Mercury	0.0072	0.030	0.0019	mg/Kg dry	1	J, B	SW-846 7471B	7/9/13	7/10/13 12:55	SAJ
Nickel	6.0	0.56	0.13	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Selenium	ND	5.6	0.86	mg/Kg dry	1		SW-846 6010C	7/9/13	7/15/13 15:00	OP
Silver	ND	0.56	0.49	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Thallium	ND	2.8	0.92	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP
Zinc	49	1.1	0.29	mg/Kg dry	1		SW-846 6010C	7/9/13	7/11/13 22:39	OP

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

Project Location: HW Storage/Satellite Storage, Len Sample Description: Work Order: 13G0267

Date Received: 7/9/2013

Field Sample #: Dup-2 Sampled: 7/8/2013 14:20

Sample ID: 13G0267-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	7/17/13	7/18/13 9:31	RH

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0267-02 [FS-1]	B076919	07/17/13
13G0267-03 [FS-2]	B076919	07/17/13
13G0267-04 [FS-3]	B076919	07/17/13
13G0267-05 [FS-5]	B076919	07/17/13
13G0267-06 [FS-6]	B076919	07/17/13
13G0267-07 [FS-7]	B076919	07/17/13
13G0267-08 [FS-8]	B076919	07/17/13
13G0267-09 [Dup-2]	B076919	07/17/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-02 [FS-1]	B076403	1.03	50.0	07/09/13
13G0267-03 [FS-2]	B076403	1.08	50.0	07/09/13
13G0267-04 [FS-3]	B076403	1.07	50.0	07/09/13
13G0267-05 [FS-5]	B076403	1.07	50.0	07/09/13
13G0267-06 [FS-6]	B076403	1.08	50.0	07/09/13
13G0267-07 [FS-7]	B076403	1.04	50.0	07/09/13
13G0267-08 [FS-8]	B076403	1.03	50.0	07/09/13
13G0267-09 [Dup-2]	B076403	1.09	50.0	07/09/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-02 [FS-1]	B076404	0.610	50.0	07/09/13
13G0267-03 [FS-2]	B076404	0.610	50.0	07/09/13
13G0267-04 [FS-3]	B076404	0.607	50.0	07/09/13
13G0267-05 [FS-5]	B076404	0.618	50.0	07/09/13
13G0267-06 [FS-6]	B076404	0.604	50.0	07/09/13
13G0267-07 [FS-7]	B076404	0.615	50.0	07/09/13
13G0267-08 [FS-8]	B076404	0.610	50.0	07/09/13
13G0267-09 [Dup-2]	B076404	0.607	50.0	07/09/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-01 [Trip Blank]	B076479	5.00	10.0	07/10/13
13G0267-02 [FS-1]	B076479	5.17	10.0	07/10/13
13G0267-03 [FS-2]	B076479	5.04	10.0	07/10/13
13G0267-04 [FS-3]	B076479	4.59	10.0	07/10/13
13G0267-05 [FS-5]	B076479	5.22	10.0	07/10/13
13G0267-06 [FS-6]	B076479	5.80	10.0	07/10/13
13G0267-07 [FS-7]	B076479	5.55	10.0	07/10/13
13G0267-08 [FS-8]	B076479	5.74	10.0	07/10/13
13G0267-09 [Dup-2]	B076479	4.76	10.0	07/10/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-02 [FS-1]	B076432	30.1	1.00	07/10/13

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

Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-03 [FS-2]	B076432	30.0	1.00	07/10/13
13G0267-04 [FS-3]	B076432	30.0	1.00	07/10/13
13G0267-05 [FS-5]	B076432	30.0	1.00	07/10/13
13G0267-06 [FS-6]	B076432	30.0	1.00	07/10/13
13G0267-07 [FS-7]	B076432	30.0	1.00	07/10/13
13G0267-08 [FS-8]	B076432	30.0	1.00	07/10/13
13G0267-09 [Dup-2]	B076432	30.1	1.00	07/10/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0267-02 [FS-1]	B076464	5.20	25.0	07/10/13
13G0267-03 [FS-2]	B076464	5.27	25.0	07/10/13
13G0267-04 [FS-3]	B076464	5.19	25.0	07/10/13
13G0267-05 [FS-5]	B076464	5.05	25.0	07/10/13
13G0267-06 [FS-6]	B076464	5.26	25.0	07/10/13
13G0267-07 [FS-7]	B076464	5.14	25.0	07/10/13
13G0267-08 [FS-8]	B076464	5.12	25.0	07/10/13
13G0267-09 [Dup-2]	B076464	5.11	25.0	07/10/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076479 - SW-846 5035											
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13							
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0557*		mg/Kg wet	0.0500		111	70-130				
Surrogate: Toluene-d8	*0.0490*		mg/Kg wet	0.0500		97.9	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0434*		mg/Kg wet	0.0500		86.8	70-130				
LCS (B076479-BS1)				Prepared & Analyzed: 07/10/13							
Acetone	0.235	0.10	mg/Kg wet	0.200		117	70-160		25		†
Benzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130		25		
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
Bromodichloromethane	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130		25		
Bromoform	0.0145	0.0020	mg/Kg wet	0.0200		72.7	70-130		25		
Bromomethane	0.0113	0.010	mg/Kg wet	0.0200		56.5	40-130		25		†
2-Butanone (MEK)	0.188	0.040	mg/Kg wet	0.200		93.8	70-160		25		†
Carbon Disulfide	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130		25		
Carbon Tetrachloride	0.0167	0.0020	mg/Kg wet	0.0200		83.6	70-130		25		
Chlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130		25		
Chlorodibromomethane	0.0172	0.0010	mg/Kg wet	0.0200		85.9	70-130		25		
Chloroethane	0.0199	0.020	mg/Kg wet	0.0200		99.7	70-130		25	J	
Chloroform	0.0194	0.0040	mg/Kg wet	0.0200		96.9	70-130		25		
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.4	70-130		25		
Cyclohexane	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0169	0.0020	mg/Kg wet	0.0200		84.3	70-130		25		
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130		25		
1,2-Dichlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
1,3-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130		25		
1,4-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.7	40-160		25	J	†
1,1-Dichloroethane	0.0188	0.0020	mg/Kg wet	0.0200		94.0	70-130		25		
1,2-Dichloroethane	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130		25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130		25		
cis-1,2-Dichloroethylene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
trans-1,2-Dichloroethylene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130		25		
1,2-Dichloropropane	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130		25		
cis-1,3-Dichloropropene	0.0165	0.0010	mg/Kg wet	0.0200		82.5	70-130		25		
trans-1,3-Dichloropropene	0.0181	0.0010	mg/Kg wet	0.0200		90.3	70-130		25		
1,4-Dioxane	0.205	0.10	mg/Kg wet	0.200		102	40-160		50	V-16	†
Ethylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130		25		
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.6	70-160		25		†
Isopropylbenzene (Cumene)	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
Methyl Acetate	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0203	0.0040	mg/Kg wet	0.0200		102	70-130		25		
Methyl Cyclohexane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
Methylene Chloride	0.0217	0.020	mg/Kg wet	0.0200		108	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.195	0.020	mg/Kg wet	0.200		97.7	70-160		25		†
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130		25		
1,1,2,2-Tetrachloroethane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130		25		
Tetrachloroethylene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.4	70-130		25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130		25		
1,2,4-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130		25		
1,1,1-Trichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.1	70-130		25		
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076479 - SW-846 5035											
LCS (B076479-BS1)				Prepared & Analyzed: 07/10/13							
Trichloroethylene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0206	0.010	mg/Kg wet	0.0200		103	70-130		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130		25		
Vinyl Chloride	0.0158	0.010	mg/Kg wet	0.0200		78.9	40-130		25		†
m+p Xylene	0.0371	0.0040	mg/Kg wet	0.0400		92.7	70-130		25		
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0519*		mg/Kg wet	0.0500		104	70-130				
Surrogate: Toluene-d8	*0.0507*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0460*		mg/Kg wet	0.0500		92.0	70-130				
LCS Dup (B076479-BSD1)				Prepared & Analyzed: 07/10/13							
Acetone	0.224	0.10	mg/Kg wet	0.200		112	70-160	4.88	25		†
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.61	25		
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130	0.798	25		
Bromodichloromethane	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130	0.551	25		
Bromoform	0.0140	0.0020	mg/Kg wet	0.0200		70.2	70-130	3.50	25		
Bromomethane	0.0134	0.010	mg/Kg wet	0.0200		66.8	40-130	16.7	25		†
2-Butanone (MEK)	0.186	0.040	mg/Kg wet	0.200		93.2	70-160	0.663	25		†
Carbon Disulfide	0.0204	0.0060	mg/Kg wet	0.0200		102	70-130	0.00	25		
Carbon Tetrachloride	0.0169	0.0020	mg/Kg wet	0.0200		84.5	70-130	1.07	25		
Chlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5	70-130	0.531	25		
Chlorodibromomethane	0.0172	0.0010	mg/Kg wet	0.0200		86.2	70-130	0.349	25		
Chloroethane	0.0206	0.020	mg/Kg wet	0.0200		103	70-130	3.26	25		
Chloroform	0.0193	0.0040	mg/Kg wet	0.0200		96.5	70-130	0.414	25		
Chloromethane	0.0151	0.010	mg/Kg wet	0.0200		75.3	70-130	1.20	25		
Cyclohexane	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	2.07	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130	1.53	25		
1,2-Dibromoethane (EDB)	0.0197	0.0010	mg/Kg wet	0.0200		98.7	70-130	0.508	25		
1,2-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	0.815	25		
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	0.704	25		
1,4-Dichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	0.326	25		
Dichlorodifluoromethane (Freon 12)	0.0115	0.020	mg/Kg wet	0.0200		57.3	40-160	0.696	25	J	†
1,1-Dichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130	0.847	25		
1,2-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130	1.10	25		
1,1-Dichloroethylene	0.0201	0.0040	mg/Kg wet	0.0200		101	70-130	0.00	25		
cis-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130	1.19	25		
trans-1,2-Dichloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	1.80	25		
1,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	1.23	25		
cis-1,3-Dichloropropene	0.0167	0.0010	mg/Kg wet	0.0200		83.7	70-130	1.44	25		
trans-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.5	70-130	0.890	25		
1,4-Dioxane	0.197	0.10	mg/Kg wet	0.200		98.7	40-160	3.79	50	V-16	† ‡
Ethylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.547	25		
2-Hexanone (MBK)	0.189	0.020	mg/Kg wet	0.200		94.3	70-160	0.349	25		†
Isopropylbenzene (Cumene)	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	0.109	25		
Methyl Acetate	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130	0.612	25		
Methyl tert-Butyl Ether (MTBE)	0.0208	0.0040	mg/Kg wet	0.0200		104	70-130	2.33	25		
Methyl Cyclohexane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	1.71	25		
Methylene Chloride	0.0214	0.020	mg/Kg wet	0.0200		107	40-160	1.02	25		†
4-Methyl-2-pentanone (MIBK)	0.196	0.020	mg/Kg wet	0.200		97.8	70-160	0.112	25		†
Styrene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130	0.440	25		
1,1,2,2-Tetrachloroethane	0.0189	0.0010	mg/Kg wet	0.0200		94.7	70-130	0.841	25		
Tetrachloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		89.9	70-130	1.33	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
LCS Dup (B076479-BSD1)				Prepared & Analyzed: 07/10/13						
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	1.13	25	
1,2,3-Trichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130	0.979	25	
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130	1.85	25	
1,1,1-Trichloroethane	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130	1.48	25	
1,1,2-Trichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.3	70-130	1.29	25	
Trichloroethylene	0.0174	0.0020	mg/Kg wet	0.0200		86.8	70-130	3.52	25	
Trichlorofluoromethane (Freon 11)	0.0205	0.010	mg/Kg wet	0.0200		102	70-130	0.778	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0227	0.010	mg/Kg wet	0.0200		114	70-130	1.33	25	
Vinyl Chloride	0.0162	0.010	mg/Kg wet	0.0200		80.9	40-130	2.50	25	†
m+p Xylene	0.0370	0.0040	mg/Kg wet	0.0400		92.6	70-130	0.162	25	
o-Xylene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130	1.40	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0520*		mg/Kg wet	0.0500		104	70-130			
Surrogate: Toluene-d8	*0.0501*		mg/Kg wet	0.0500		100	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0455*		mg/Kg wet	0.0500		90.9	70-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076479 - SW-846 5035										
Blank (B076479-BLK1)				Prepared & Analyzed: 07/10/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076432 - SW-846 3546										
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13								
3-Nitroaniline	ND	0.34	mg/Kg wet									
4-Nitroaniline	ND	0.34	mg/Kg wet									
Nitrobenzene	ND	0.34	mg/Kg wet									
2-Nitrophenol	ND	0.34	mg/Kg wet									
4-Nitrophenol	ND	0.66	mg/Kg wet								V-05	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Atrazine	ND	0.67	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.79*		mg/Kg wet	6.67		56.8		30-130				
Surrogate: Phenol-d6	*3.85*		mg/Kg wet	6.67		57.7		30-130				
Surrogate: Nitrobenzene-d5	*2.02*		mg/Kg wet	3.33		60.7		30-130				
Surrogate: 2-Fluorobiphenyl	*1.89*		mg/Kg wet	3.33		56.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.94*		mg/Kg wet	6.67		74.0		30-130				
Surrogate: p-Terphenyl-d14	*2.44*		mg/Kg wet	3.33		73.3		30-130				
LCS (B076432-BS1)				Prepared: 07/10/13 Analyzed: 07/20/13								
2,3,4,6-Tetrachlorophenol	1.22	0.67	mg/Kg wet	1.67		73.2		40-140		20		
Benzaldehyde	0.679	0.34	mg/Kg wet	1.67		40.7		40-140		20		
Biphenyl	1.18	0.67	mg/Kg wet	1.67		70.9		40-140		20		
Caprolactam	1.40	0.34	mg/Kg wet	1.67		84.0		40-140		20		
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140		30		
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8		40-140		30		
Acetophenone	0.964	0.34	mg/Kg wet	1.67		57.8		40-140		30	V-05	
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.9		40-140		30		
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.1		40-140		30		
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.6		40-140		30		
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.4		40-140		30	V-05	
Benzo(g,h,i)perylene	0.655	0.17	mg/Kg wet	1.67		**39.3**	*	40-140		30	L-07	
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.4		40-140		30		
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.6		40-140		30		
Bis(2-chloroethyl)ether	1.11	0.34	mg/Kg wet	1.67		66.8		40-140		30		
Bis(2-chloroisopropyl)ether	0.942	0.34	mg/Kg wet	1.67		56.5		40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	1.02	0.34	mg/Kg wet	1.67		61.2		40-140		30		
4-Bromophenylphenylether	1.32	0.34	mg/Kg wet	1.67		79.3		40-140		30		
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5		40-140		30		
Carbazole	1.35	0.17	mg/Kg wet	1.67		81.1		40-140		30		
4-Chloroaniline	0.552	0.66	mg/Kg wet	1.67		33.1		10-140		30	J	†
4-Chloro-3-methylphenol	1.21	0.66	mg/Kg wet	1.67		72.7		30-130		30		
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.2		40-140		30		
2-Chlorophenol	1.06	0.34	mg/Kg wet	1.67		63.9		30-130		30		
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		63.1		40-140		30		
Chrysene	1.23	0.17	mg/Kg wet	1.67		73.5		40-140		30		
Dibenz(a,h)anthracene	0.818	0.17	mg/Kg wet	1.67		49.1		40-140		30		
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.2		40-140		30		
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.4		40-140		30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
LCS (B076432-BS1)				Prepared: 07/10/13 Analyzed: 07/20/13								
3,3-Dichlorobenzidine	0.924	0.17	mg/Kg wet	1.67		55.4		20-140		50		†
2,4-Dichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.1		30-130		30		
Diethylphthalate	1.17	0.34	mg/Kg wet	1.67		70.4		40-140		30		
2,4-Dimethylphenol	1.28	0.34	mg/Kg wet	1.67		76.7		30-130		30		
Dimethylphthalate	1.22	0.34	mg/Kg wet	1.67		72.9		40-140		30		
4,6-Dinitro-2-methylphenol	1.45	0.34	mg/Kg wet	1.67		87.1		30-130		30		
2,4-Dinitrophenol	1.18	0.66	mg/Kg wet	1.67		70.6		30-130		30	V-06	
2,4-Dinitrotoluene	1.21	0.34	mg/Kg wet	1.67		72.5		40-140		30		
2,6-Dinitrotoluene	1.34	0.34	mg/Kg wet	1.67		80.5		40-140		30		
Di-n-octylphthalate	1.03	0.67	mg/Kg wet	1.67		62.0		40-140		30		
Fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.4		40-140		30		
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.1		40-140		30		
Hexachlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.9		40-140		30		
Hexachlorobutadiene	1.10	0.34	mg/Kg wet	1.67		66.3		40-140		30		
Hexachlorocyclopentadiene	0.438	0.34	mg/Kg wet	1.67		**26.3**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.940	0.34	mg/Kg wet	1.67		56.4		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	0.754	0.17	mg/Kg wet	1.67		45.3		40-140		30		
Isophorone	1.14	0.34	mg/Kg wet	1.67		68.2		40-140		30		
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.3		40-140		30		
2-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2		30-130		30		
3/4-Methylphenol	1.01	0.34	mg/Kg wet	1.67		60.5		30-130		30	V-05	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.0		40-140		30		
2-Nitroaniline	1.01	0.34	mg/Kg wet	1.67		60.3		40-140		30		
3-Nitroaniline	1.07	0.34	mg/Kg wet	1.67		64.4		30-140		30		†
4-Nitroaniline	1.16	0.34	mg/Kg wet	1.67		69.7		40-140		30		
Nitrobenzene	1.05	0.34	mg/Kg wet	1.67		63.2		40-140		30		
2-Nitrophenol	1.27	0.34	mg/Kg wet	1.67		76.1		30-130		30		
4-Nitrophenol	1.08	0.66	mg/Kg wet	1.67		64.8		30-130		50	V-05	
N-Nitrosodiphenylamine	1.51	0.34	mg/Kg wet	1.67		90.9		40-140		30		
N-Nitrosodi-n-propylamine	0.911	0.34	mg/Kg wet	1.67		54.6		40-140		30	V-05	
Pentachlorophenol	0.987	0.34	mg/Kg wet	1.67		59.2		30-130		30		
Phenanthrene	1.23	0.17	mg/Kg wet	1.67		74.0		40-140		30		
Phenol	0.917	0.34	mg/Kg wet	1.67		55.0		30-130		30		
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.1		40-140		30		
1,2,4,5-Tetrachlorobenzene	1.13	0.34	mg/Kg wet	1.67		68.1		40-140		30		
2,4,5-Trichlorophenol	1.10	0.34	mg/Kg wet	1.67		66.3		30-130		30		
2,4,6-Trichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.2		30-130		30		
Atrazine	1.14	0.67	mg/Kg wet	1.67		68.6		40-140		30		
Surrogate: 2-Fluorophenol	*4.29*		mg/Kg wet	6.67		64.3		30-130				
Surrogate: Phenol-d6	*4.05*		mg/Kg wet	6.67		60.7		30-130				
Surrogate: Nitrobenzene-d5	*2.19*		mg/Kg wet	3.33		65.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/Kg wet	3.33		62.6		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.38*		mg/Kg wet	6.67		95.7		30-130				
Surrogate: p-Terphenyl-d14	*2.78*		mg/Kg wet	3.33		83.3		30-130				

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
LCS Dup (B076432-BSD1)				Prepared: 07/10/13 Analyzed: 07/20/13								
2,3,4,6-Tetrachlorophenol	1.31	0.67	mg/Kg wet	1.67		78.6		40-140	7.09	20		
Benzaldehyde	0.642	0.34	mg/Kg wet	1.67		**38.5**	*	40-140	5.55	20	L-07	
Biphenyl	1.14	0.67	mg/Kg wet	1.67		68.2		40-140	3.88	20		
Caprolactam	1.43	0.34	mg/Kg wet	1.67		86.0		40-140	2.28	20		
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.2		40-140	2.16	30		
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140	1.90	30		
Acetophenone	0.933	0.34	mg/Kg wet	1.67		56.0		40-140	3.27	30	V-05	
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.3		40-140	0.827	30		
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2		40-140	2.68	30		
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140	0.307	30		
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.3		40-140	0.126	30	V-05	
Benzo(g,h,i)perylene	0.676	0.17	mg/Kg wet	1.67		40.5		40-140	3.11	30		
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.4		40-140	2.84	30		
Bis(2-chloroethoxy)methane	1.17	0.34	mg/Kg wet	1.67		70.1		40-140	4.84	30		
Bis(2-chloroethyl)ether	1.07	0.34	mg/Kg wet	1.67		64.0		40-140	4.40	30		
Bis(2-chloroisopropyl)ether	0.901	0.34	mg/Kg wet	1.67		54.1		40-140	4.38	30	V-05	
Bis(2-Ethylhexyl)phthalate	0.997	0.34	mg/Kg wet	1.67		59.8		40-140	2.18	30		
4-Bromophenylphenylether	1.27	0.34	mg/Kg wet	1.67		75.9		40-140	4.30	30		
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.3		40-140	1.59	30		
Carbazole	1.34	0.17	mg/Kg wet	1.67		80.3		40-140	0.892	30		
4-Chloroaniline	0.484	0.66	mg/Kg wet	1.67		29.1		10-140	13.1	30	J	†
4-Chloro-3-methylphenol	1.24	0.66	mg/Kg wet	1.67		74.6		30-130	2.50	30		
2-Chloronaphthalene	1.09	0.34	mg/Kg wet	1.67		65.2		40-140	1.48	30		
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.4		30-130	3.99	30		
4-Chlorophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	1.67	30		
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.3		40-140	3.12	30		
Dibenz(a,h)anthracene	0.830	0.17	mg/Kg wet	1.67		49.8		40-140	1.46	30		
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.3		40-140	0.181	30		
Di-n-butylphthalate	1.18	0.34	mg/Kg wet	1.67		71.0		40-140	3.30	30		
3,3-Dichlorobenzidine	0.882	0.17	mg/Kg wet	1.67		52.9		20-140	4.65	50		† ‡
2,4-Dichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.6		30-130	3.56	30		
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		70.9		40-140	0.793	30		
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.2		30-130	4.62	30		
Dimethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.6		40-140	0.522	30		
4,6-Dinitro-2-methylphenol	1.45	0.34	mg/Kg wet	1.67		86.8		30-130	0.253	30		
2,4-Dinitrophenol	1.29	0.66	mg/Kg wet	1.67		77.4		30-130	9.19	30	V-06	
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4		40-140	9.06	30		
2,6-Dinitrotoluene	1.39	0.34	mg/Kg wet	1.67		83.3		40-140	3.42	30		
Di-n-octylphthalate	1.04	0.67	mg/Kg wet	1.67		62.5		40-140	0.771	30		
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.5		40-140	3.65	30		
Fluorene	1.03	0.17	mg/Kg wet	1.67		62.1		40-140	1.62	30		
Hexachlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.6		40-140	5.45	30		
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.6		40-140	5.65	30		
Hexachlorocyclopentadiene	0.453	0.34	mg/Kg wet	1.67		**27.2**	*	40-140	3.36	30	L-04, V-05	
Hexachloroethane	0.901	0.34	mg/Kg wet	1.67		54.0		40-140	4.24	30	V-05	
Indeno(1,2,3-cd)pyrene	0.763	0.17	mg/Kg wet	1.67		45.8		40-140	1.19	30		
Isophorone	1.08	0.34	mg/Kg wet	1.67		64.5		40-140	5.64	30		
2-Methylnaphthalene	0.952	0.17	mg/Kg wet	1.67		57.1		40-140	5.41	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.3		30-130	4.41	30		
3/4-Methylphenol	0.932	0.34	mg/Kg wet	1.67		55.9		30-130	7.83	30	V-05	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.7		40-140	3.69	30		
2-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.6		40-140	5.23	30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546											
LCS Dup (B076432-BSD1)				Prepared: 07/10/13 Analyzed: 07/20/13							
3-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		69.0	30-140	6.89	30		†
4-Nitroaniline	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	10.7	30		
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.7	40-140	2.37	30		
2-Nitrophenol	1.23	0.34	mg/Kg wet	1.67		74.0	30-130	2.77	30		
4-Nitrophenol	1.17	0.66	mg/Kg wet	1.67		70.1	30-130	7.98	50	V-05	‡
N-Nitrosodiphenylamine	1.47	0.34	mg/Kg wet	1.67		88.0	40-140	3.20	30		
N-Nitrosodi-n-propylamine	0.871	0.34	mg/Kg wet	1.67		52.3	40-140	4.41	30	V-05	
Pentachlorophenol	0.999	0.34	mg/Kg wet	1.67		59.9	30-130	1.14	30		
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140	3.66	30		
Phenol	0.896	0.34	mg/Kg wet	1.67		53.8	30-130	2.28	30		
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140	0.448	30		
1,2,4,5-Tetrachlorobenzene	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	3.68	30		
2,4,5-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130	3.35	30		
2,4,6-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.8	30-130	3.32	30		
Atrazine	1.18	0.67	mg/Kg wet	1.67		70.6	40-140	2.93	30		
Surrogate: 2-Fluorophenol	*4.10*		mg/Kg wet	6.67		61.4	30-130				
Surrogate: Phenol-d6	*3.84*		mg/Kg wet	6.67		57.7	30-130				
Surrogate: Nitrobenzene-d5	*2.09*		mg/Kg wet	3.33		62.6	30-130				
Surrogate: 2-Fluorobiphenyl	*1.97*		mg/Kg wet	3.33		59.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.60*		mg/Kg wet	6.67		99.0	30-130				
Surrogate: p-Terphenyl-d14	*2.74*		mg/Kg wet	3.33		82.1	30-130				

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076432 - SW-846 3546										
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13						
No TICs Found	0.0		mg/Kg wet							

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

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076464 - SW-846 8315										
Blank (B076464-BLK1)				Prepared: 07/10/13	Analyzed: 07/11/13					
Formaldehyde	ND	0.99	mg/Kg wet							
LCS (B076464-BS1)				Prepared: 07/10/13	Analyzed: 07/11/13					
Formaldehyde	5.39	0.99	mg/Kg wet	4.93		110	39-153		40	
Matrix Spike (B076464-MS1)		**Source: 13G0267-04**		Prepared: 07/10/13	Analyzed: 07/11/13					
Formaldehyde	6.08	1.2	mg/Kg dry	5.81	ND	105	39-153		40	
Matrix Spike Dup (B076464-MSD1)		**Source: 13G0267-04**		Prepared: 07/10/13	Analyzed: 07/11/13					
Formaldehyde	5.87	1.2	mg/Kg dry	5.82	ND	101	39-153	3.42	40	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076403 - SW-846 3050B										
Blank (B076403-BLK1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	0.16	0.25	mg/Kg wet							J
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B076403-BS1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Antimony	125	5.0	mg/Kg wet	106		118	8.2-218.9		30	
Arsenic	191	5.0	mg/Kg wet	182		105	83-117.6		30	
Beryllium	108	0.50	mg/Kg wet	98.3		109	83.9-116		30	
Cadmium	64.6	0.50	mg/Kg wet	60.4		107	83.1-116.9		30	
Chromium	133	0.99	mg/Kg wet	125		106	81.6-117.6		30	
Copper	83.4	0.99	mg/Kg wet	80.1		104	83.8-116.1		30	
Lead	129	1.5	mg/Kg wet	136		95.2	82.4-117.8		30	
Manganese	295	0.99	mg/Kg wet	279		106	82.8-117.5		30	
Nickel	129	0.99	mg/Kg wet	128		100	84.4-115.6		30	
Selenium	92.7	9.9	mg/Kg wet	85.9		108	80-120		30	
Silver	59.2	0.99	mg/Kg wet	61.3		96.6	66.2-133.8		30	
Thallium	144	5.0	mg/Kg wet	144		100	81.2-118.8		30	
Zinc	210	2.0	mg/Kg wet	204		103	81.9-117.6		30	
LCS Dup (B076403-BSD1)				Prepared: 07/09/13 Analyzed: 07/10/13						
Antimony	122	5.0	mg/Kg wet	106		115	8.2-218.9	2.89	30	
Arsenic	190	5.0	mg/Kg wet	182		104	83-117.6	0.650	30	
Beryllium	104	0.50	mg/Kg wet	98.3		106	83.9-116	2.91	30	
Cadmium	64.4	0.50	mg/Kg wet	60.4		107	83.1-116.9	0.378	30	
Chromium	134	1.0	mg/Kg wet	125		107	81.6-117.6	0.951	30	
Copper	82.8	1.0	mg/Kg wet	80.1		103	83.8-116.1	0.779	30	
Lead	129	1.5	mg/Kg wet	136		95.1	82.4-117.8	0.0648	30	
Manganese	293	1.0	mg/Kg wet	279		105	82.8-117.5	0.799	30	
Nickel	128	1.0	mg/Kg wet	128		100	84.4-115.6	0.381	30	
Selenium	92.0	10	mg/Kg wet	85.9		107	80-120	0.713	30	
Silver	58.6	1.0	mg/Kg wet	61.3		95.5	66.2-133.8	1.12	30	
Thallium	143	5.0	mg/Kg wet	144		99.3	81.2-118.8	0.990	30	
Zinc	209	2.0	mg/Kg wet	204		102	81.9-117.6	0.510	30	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B076403 - SW-846 3050B												
Duplicate (B076403-DUP1)		**Source: 13G0267-03**		Prepared: 07/09/13 Analyzed: 07/10/13								
Antimony	ND	3.0	mg/Kg dry		ND				NC		35	
Arsenic	ND	3.0	mg/Kg dry		ND				NC		35	
Beryllium	ND	1.5	mg/Kg dry		ND				NC		35	
Cadmium	0.735	0.30	mg/Kg dry		0.832				12.3		35	B
Chromium	33.3	0.61	mg/Kg dry		22.0				**41.0**	*	35	R-02
Copper	33.6	0.61	mg/Kg dry		30.4				10.0		35	
Lead	6.60	0.91	mg/Kg dry		8.67				27.1		35	
Manganese	488	0.61	mg/Kg dry		591				19.2		35	
Nickel	12.4	0.61	mg/Kg dry		8.66				**35.6**	*	35	R-02
Selenium	ND	6.1	mg/Kg dry		ND				NC		35	
Silver	ND	0.61	mg/Kg dry		ND				NC		35	
Thallium	ND	3.0	mg/Kg dry		ND				NC		35	
Zinc	51.7	1.2	mg/Kg dry		55.2				6.47		35	
MRL Check (B076403-MRL1)				Prepared: 07/09/13 Analyzed: 07/10/13								
Lead	0.820	0.71	mg/Kg wet	0.707		116		80-120				
Matrix Spike (B076403-MS1)		**Source: 13G0267-03**		Prepared: 07/09/13 Analyzed: 07/10/13								
Antimony	34.8	2.9	mg/Kg dry	116	ND	**30.0**	*	75-125			35	MS-07
Arsenic	108	2.9	mg/Kg dry	116	ND	92.8		75-125			35	
Beryllium	116	0.29	mg/Kg dry	116	ND	99.6		75-125			35	
Cadmium	113	0.29	mg/Kg dry	116	0.832	97.0		75-125			35	
Chromium	134	0.58	mg/Kg dry	116	22.0	96.4		75-125			35	
Copper	146	0.58	mg/Kg dry	116	30.4	99.9		75-125			35	
Lead	116	0.87	mg/Kg dry	116	8.67	92.0		75-125			35	
Manganese	844	0.58	mg/Kg dry	116	591	**217**	*	75-125			35	MS-19
Nickel	114	0.58	mg/Kg dry	116	8.66	91.0		75-125			35	
Selenium	114	5.8	mg/Kg dry	116	ND	98.2		75-125			35	
Silver	106	0.58	mg/Kg dry	116	ND	91.1		75-125			35	
Thallium	107	2.9	mg/Kg dry	116	ND	92.0		75-125			35	
Zinc	165	1.2	mg/Kg dry	116	55.2	94.3		75-125			35	
Batch B076404 - SW-846 7471												
Blank (B076404-BLK1)				Prepared: 07/09/13 Analyzed: 07/10/13								
Mercury	0.0021	0.025	mg/Kg wet									J
LCS (B076404-BS1)				Prepared: 07/09/13 Analyzed: 07/10/13								
Mercury	3.77	0.33	mg/Kg wet	4.05		93.2		71.6-128.1			30	
LCS Dup (B076404-BSD1)				Prepared: 07/09/13 Analyzed: 07/10/13								
Mercury	3.89	0.33	mg/Kg wet	4.05		96.0		71.6-128.1	2.95		30	

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076404 - SW-846 7471										
Duplicate (B076404-DUP1)		**Source: 13G0267-03**		Prepared: 07/09/13 Analyzed: 07/10/13						
Mercury	0.0152	0.031	mg/Kg dry		0.0134			12.8	35	J, B
Matrix Spike (B076404-MS1)		**Source: 13G0267-03**		Prepared: 07/09/13 Analyzed: 07/10/13						
Mercury	0.207	0.030	mg/Kg dry	0.200	0.0134	96.6	75-125		35	

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076919 - % Solids										
Duplicate (B076919-DUP3)		**Source: 13G0267-06**		Prepared: 07/17/13 Analyzed: 07/18/13						
% Solids	82.3		% Wt		84.0			2.04	20	

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.
RL-01	Elevated reporting limit due to high concentration of target compounds. Requested reporting limit not met.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

ANALYST

SMC	Steven M. Case
SAJ	Shamika A. Johnson
RH	Robert H. Witherell
PEB	Paula E. Blakeborough
OP	Ornela Piluri
MJH	Matthew J. Hammond
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
KSH	Karen S. Hawks
JMP	Jessica M. Pace
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
ALB	Aaron L. Benoit

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
1,4-Dioxane	NC

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

CERTIFICATIONS

Certified Analyses included in this Report

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

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8315 in Soil	
Formaldehyde	NY

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

1360267

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: HW Storage/Satellite Storage
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	TCL VOC & 10 largest non-target peaks (TICs) (SW-846 8260B)	TCL SVOC & 10 largest non-target peaks (TICs) (SW-846 8270D)	Formaldehyde (SW-846 8315A)	Metals[1] (SW-846 6010C)					Comments
Trip Blank	-	-	Lab	S	3	2	1				x								
FS-1	7/8/13	1320	BM	S	6	2	1			3	x	x	x	x					
FS-2		1340		S	6	2	1			3	x	x	x	x					
FS-3		1350		S	6	2	1			3	x	x	x	x					
FS-5		1410		S	6	2	1			3	x	x	x	x					
FS-6		1440		S	6	2	1			3	x	x	x	x					
FS-7		1300		S	6	2	1			3	x	x	x	x					
FS-8		1510		S	6	2	1			3	x	x	x	x					
Dup-2	7/8/13	1420		S	6	2	1			3	x	x	x	x					
				S	6	2	1			3	x	x	x	x					

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).
(1) Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc.
VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/8/13 1830	1 Fed-X	2	7-9-13 9:49	2 Paula Blakeborough
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

07-09-13 12:13 IN

FedEx

875382506890

Ship (P/U) date :
Mon 7/08/2013 4:13 pm
VALLEY COTTAGE, NY US

Delivered
Signed for by: P BLAKE

Actual delivery :
Tues 7/09/2013 9:49 am
MA US

Travel History

Date/Time	Activity	Location
- 7/09/2013 - Tuesday		
9:49 am	Delivered	MA
8:04 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:11 am	At local FedEx facility	WINDSOR LOCKS, CT
3:38 am	Departed FedEx location	NEWARK, NJ
- 7/08/2013 - Monday		
11:10 pm	Arrived at FedEx location	NEWARK, NJ
9:17 pm	Left FedEx origin facility	RONKONKOMA, NY
4:13 pm	Picked up	RONKONKOMA, NY

Local Scan Time

Shipment Facts

Tracking number	875382506890	**Service**	FedEx Priority Overnight
Weight	43 lbs	**Dimensions**	16x14x10 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	43 lbs / 19.5 kgs	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.9.13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

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

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank 2 Temperature °C by Temp gun _____

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

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: Log in

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

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

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

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	8
500 mL Amber		4 oz amber/clear jar	8
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 17
Bisulfate _____ # DI Water 18
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-09-13 12:13 IN

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

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Compressor, Boiler, Oil Pump Rooms, Lenoir, NC
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0268

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0268

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

PROJECT LOCATION: Compressor, Boiler, Oil Pump Rooms, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0268-01	Trip Blank Soil		SW-846 8260B	
CR-1	13G0268-02	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
CR-2	13G0268-03	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
BR-1	13G0268-04	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
BR-2	13G0268-05	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076443-BS1	B076443-BSD1
C9-C18	79%	73%
C19-C36	105%	96%
C11-C22	107%	103%

VPH	B076454-BS1	B076454-BSD1
C9-C10	99%	99%

Revision: 7/25/2013

For method 8260, in sample 13G0268-02, internal standard recovery was lower than method required 50-200% of internal standard in CCV. Reanalysis produced similar results. Interference from matrix is suspected.

Sample	Internal Standard Recovery(1,4-Dichlorobenenzene-d4)
13G0268-02	38%
13G0268-02RE1	35%

The following compounds are affected; n-Butylbenzene, sec-Butylbenzene, tert-Butylbenzene, 1,2-Dibromo-3-chloropropane,1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Hexachlorobutadiene, p-Isopropyltoluene, Naphthalene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene and 1,2,4-Trimethylbenzene all results are estimated.

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

MADEP-VPH-04-1.1

Qualifications:

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

Analyte & Samples(s) Qualified:

2,5-Dibromotoluene (FID), 2,5-Dibromotoluene (PID)

13G0268-02[CR-1], 13G0268-03[CR-2]

SW-846 6010C

Qualifications:

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

Analyte & Samples(s) Qualified:

Lead

13G0268-04[BR-1], B076491-BLK1

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Lead

13G0268-02[CR-1], 13G0268-03[CR-2], 13G0268-05[BR-2]

SW-846 8260B

Qualifications:

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

Analyte & Samples(s) Qualified:

Chloromethane

B076569-BLK1, B076569-BS1, B076569-BSD1

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

Analyte & Samples(s) Qualified:

1,1-Dichloroethylene, tert-Amyl Methyl Ether (TAME)

B076481-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076481-BSD1, B076569-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane

13G0268-01[Trip Blank], 13G0268-02[CR-1], 13G0268-03[CR-2], 13G0268-04[BR-1], 13G0268-05[BR-2], B076481-BLK1, B076481-BS1, B076481-BSD1, B076569-BLK1, B076569-BS1, B076569-BSD1

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

Analyte & Samples(s) Qualified:

Chloromethane

B076569-BLK1, B076569-BS1, B076569-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA)

13G0268-01[Trip Blank], 13G0268-02[CR-1], 13G0268-03[CR-2], 13G0268-04[BR-1], 13G0268-05[BR-2], B076481-BLK1, B076481-BS1, B076481-BSD1, B076569-BLK1, B076569-BS1, B076569-BSD1

Internal standard area <50% of associated calibration standard internal standard area.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 1,4-Dichlorobenzene-d4, Naphthalene, n-Butylbenzene, p-Isopropyltoluene (p-Cymene), sec-Butylbenzene, tert-Butylbenzene

13G0268-02[CR-1]

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

Analyte & Samples(s) Qualified:

Bromomethane

B076481-BS1, B076481-BSD1, B076569-BS1, B076569-BSD1

SW-846 8270D

Qualifications:

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

13G0268-02[CR-1]

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

Analyte & Samples(s) Qualified:

Benzoic Acid, Hexachlorocyclopentadiene

13G0268-02[CR-1], 13G0268-03[CR-2], 13G0268-04[BR-1], 13G0268-05[BR-2], B076432-BLK1, B076432-BS1, B076432-BSD1

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

B076432-BS1

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

13G0268-03[CR-2]

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

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

Analyte & Samples(s) Qualified:

3/4-Methylphenol, 4-Nitrophenol, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzoic Acid, Bis(2-chloroisopropyl)ether, Di-n-butylphthalate, Di-n-octylphthalate, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine, Pyrene
B076432-BLK1, B076432-BS1, B076432-BSD1, 13G0268-02[CR-1], 13G0268-04[BR-1], 13G0268-05[BR-2], 13G0268-03[CR-2]

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B076432-BS1, B076432-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
13G0268-02[CR-1]

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 2-Chloronaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol
13G0268-04[BR-1], 13G0268-05[BR-2], B076432-BLK1, 13G0268-03[CR-2]

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

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

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/8/2013 00:00

Sample ID: 13G0268-01

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1	R-05	SW-846 8260B	7/10/13	7/10/13 15:37	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg wet	1	V-16	SW-846 8260B	7/10/13	7/10/13 15:37	MFF
n-Butylbenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
tert-Butylbenzene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Chlorodibromomethane	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
2-Chlorotoluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
4-Chlorotoluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,3-Dichloropropane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
2,2-Dichloropropane	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,1-Dichloropropene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
2-Hexanone (MBK)	ND	0.040	0.011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/8/2013 00:00

Sample ID: 13G0268-01

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.0076	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Naphthalene	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
n-Propylbenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Trichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Vinyl Acetate	ND	0.010	0.0067	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/10/13	7/10/13 15:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	94.2	70-130		7/10/13 15:37
Toluene-d8	101	70-130		7/10/13 15:37
4-Bromofluorobenzene	98.1	70-130		7/10/13 15:37

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.085	0.11	0.026	mg/Kg dry	1	J	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Benzene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Bromobenzene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Bromodichloromethane	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1	R-05	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
2-Butanone (MEK)	ND	0.044	0.019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
tert-Butyl Alcohol (TBA)	ND	0.044	0.023	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
n-Butylbenzene	ND	0.0022	0.00077	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
sec-Butylbenzene	ND	0.0022	0.0011	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
tert-Butylbenzene	ND	0.0022	0.00098	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Carbon Tetrachloride	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Chlorobenzene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Chlorodibromomethane	ND	0.0044	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Chloroform	ND	0.0044	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Chloromethane	ND	0.011	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
2-Chlorotoluene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
4-Chlorotoluene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00077	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00077	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00088	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,1-Dichloroethane	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,1-Dichloroethylene	ND	0.0044	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,3-Dichloropropane	ND	0.0011	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
2,2-Dichloropropane	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,1-Dichloropropene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Ethylbenzene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
2-Hexanone (MBK)	ND	0.044	0.012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	0.00088	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	0.014	0.022	0.0078	mg/Kg dry	1	J	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.044	0.0083	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Naphthalene	ND	0.0044	0.00077	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
n-Propylbenzene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Styrene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Toluene	ND	0.0022	0.00088	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00066	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00088	mg/Kg dry	1	V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Trichloroethylene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,2,3-Trichloropropane	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,2,4-Trimethylbenzene	0.0019	0.0022	0.00088	mg/Kg dry	1	J, V-17	SW-846 8260B	7/10/13	7/10/13 16:06	MFF
1,3,5-Trimethylbenzene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Vinyl Acetate	ND	0.011	0.0073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
m+p Xylene	ND	0.0044	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF
o-Xylene	ND	0.0022	0.00077	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:06	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	113	70-130		7/10/13 16:06
Toluene-d8	82.2	70-130		7/10/13 16:06
4-Bromofluorobenzene	80.3	70-130		7/10/13 16:06

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 16:06	MFF

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Sample Flags: DL-03

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.9	0.96	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Acenaphthylene	ND	1.9	0.93	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Anthracene	ND	1.9	1.2	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Benzo(a)anthracene	ND	1.9	0.87	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Benzo(a)pyrene	ND	1.9	0.68	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Benzo(b)fluoranthene	ND	1.9	1.7	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Benzo(g,h,i)perylene	ND	1.9	1.5	mg/Kg dry	10	V-05	SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Benzo(k)fluoranthene	ND	1.9	1.7	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Benzoic Acid	ND	11	11	mg/Kg dry	10	L-04	SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Bis(2-chloroethoxy)methane	ND	3.8	1.4	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Bis(2-chloroethyl)ether	ND	3.8	1.5	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Bis(2-chloroisopropyl)ether	ND	3.8	1.6	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Bis(2-Ethylhexyl)phthalate	ND	3.8	0.86	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
4-Bromophenylphenylether	ND	3.8	0.95	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Butylbenzylphthalate	ND	3.8	1.5	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
4-Chloroaniline	ND	7.5	1.9	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
4-Chloro-3-methylphenol	ND	7.5	1.6	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2-Chloronaphthalene	ND	3.8	1.2	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2-Chlorophenol	ND	3.8	1.1	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
4-Chlorophenylphenylether	ND	3.8	1.3	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Chrysene	ND	1.9	1.2	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Dibenz(a,h)anthracene	ND	1.9	1.1	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Dibenzofuran	ND	3.8	0.89	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Di-n-butylphthalate	ND	3.8	1.6	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
1,2-Dichlorobenzene	ND	3.8	0.77	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
1,3-Dichlorobenzene	ND	3.8	0.90	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
1,4-Dichlorobenzene	ND	3.8	0.95	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
3,3-Dichlorobenzidine	ND	1.9	1.8	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2,4-Dichlorophenol	ND	3.8	1.2	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Diethylphthalate	ND	3.8	1.3	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2,4-Dimethylphenol	ND	3.8	1.1	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Dimethylphthalate	ND	3.8	1.5	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
4,6-Dinitro-2-methylphenol	ND	3.8	1.6	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2,4-Dinitrophenol	ND	7.5	3.8	mg/Kg dry	10	V-19	SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Di-n-octylphthalate	ND	7.6	5.3	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	3.8	1.8	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Fluoranthene	ND	1.9	1.7	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Fluorene	ND	1.9	1.5	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Hexachlorobenzene	ND	3.8	1.8	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Hexachlorobutadiene	ND	3.8	1.3	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Hexachlorocyclopentadiene	ND	3.8	2.5	mg/Kg dry	10	L-04	SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Hexachloroethane	ND	3.8	1.1	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Indeno(1,2,3-cd)pyrene	ND	1.9	1.3	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Isophorone	ND	3.8	1.1	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Sample Flags: DL-03

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	1.9	0.73	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2-Methylnaphthalene	ND	1.9	1.0	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2-Methylphenol	ND	3.8	1.2	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
3/4-Methylphenol	ND	3.8	2.1	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Naphthalene	ND	1.9	0.85	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Nitrobenzene	ND	3.8	1.1	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2-Nitrophenol	ND	3.8	1.1	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
4-Nitrophenol	ND	7.5	6.7	mg/Kg dry	10	V-05	SW-846 8270D	7/10/13	7/22/13 23:13	CMR
N-Nitrosodiphenylamine	ND	3.8	1.8	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
N-Nitrosodi-n-propylamine	ND	3.8	1.2	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Pentachlorophenol	ND	3.8	1.5	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Phenanthrene	ND	1.9	1.0	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Phenol	ND	3.8	1.0	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
Pyrene	ND	1.9	1.3	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
1,2,4-Trichlorobenzene	ND	3.8	0.93	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR
2,4,6-Trichlorophenol	ND	3.8	2.5	mg/Kg dry	10		SW-846 8270D	7/10/13	7/22/13 23:13	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	59.3	30-130		7/22/13 23:13
Phenol-d6	63.6	30-130		7/22/13 23:13
Nitrobenzene-d5	64.1	30-130		7/22/13 23:13
2-Fluorobiphenyl	81.3	30-130		7/22/13 23:13
2,4,6-Tribromophenol	90.8	30-130		7/22/13 23:13
p-Terphenyl-d14	83.9	30-130		7/22/13 23:13

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Tetradecane, 3-methyl-	0.21	mg/Kg dry	111107	9.928	1	018435-22-8	SW-846 8270D	7/10/13	7/22/13 23:13	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	39	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
C19-C36 Aliphatics	4700	570	mg/Kg dry	50		MADEP-EPH-04-1.1	7/10/13	7/12/13 12:18	CJM
Unadjusted C11-C22 Aromatics	300	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
C11-C22 Aromatics	300	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 16:20	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.3	40-140		7/11/13 16:20
o-Terphenyl (OTP)	79.7	40-140		7/11/13 16:20
2-Bromonaphthalene	83.0	40-140		7/11/13 16:20
2-Fluorobiphenyl	97.3	40-140		7/11/13 16:20

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.92

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
Benzene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
Ethylbenzene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
Toluene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH
o-Xylene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 16:55	EEH

Surrogates	% Recovery		Recovery Limits	Flag		
2,5-Dibromotoluene (FID)	**288**	*	70-130	S-17		7/11/13 16:55
2,5-Dibromotoluene (PID)	**177**	*	70-130	S-17		7/11/13 16:55

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1 Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	11	0.55	0.14	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:55	OP
Lead	5.6	0.83	0.38	mg/Kg dry	1	B-07	SW-846 6010C	7/10/13	7/11/13 17:55	OP

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

Project Location: Compressor, Boiler, Oil Pump Ro
Sample Description:
Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-1
Sampled: 7/8/2013 16:10

Sample ID: 13G0268-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.098	0.023	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Benzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Bromobenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Bromodichloromethane	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Bromomethane	ND	0.0098	0.0017	mg/Kg dry	1	R-05	SW-846 8260B	7/10/13	7/10/13 16:34	MFF
2-Butanone (MEK)	ND	0.039	0.017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
tert-Butyl Alcohol (TBA)	ND	0.039	0.021	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 16:34	MFF
n-Butylbenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
sec-Butylbenzene	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
tert-Butylbenzene	ND	0.0020	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00098	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Carbon Tetrachloride	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Chlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Chlorodibromomethane	ND	0.0039	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Chloroform	ND	0.0039	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Chloromethane	ND	0.0098	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
2-Chlorotoluene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
4-Chlorotoluene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,2-Dibromoethane (EDB)	ND	0.00098	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,1-Dichloroethane	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,1-Dichloroethylene	ND	0.0039	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,3-Dichloropropane	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
2,2-Dichloropropane	ND	0.0020	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,1-Dichloropropene	ND	0.0020	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
cis-1,3-Dichloropropene	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
trans-1,3-Dichloropropene	ND	0.00098	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Diisopropyl Ether (DIPE)	ND	0.00098	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Ethylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
2-Hexanone (MBK)	ND	0.039	0.011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0039	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.020	0.0070	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.039	0.0075	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Naphthalene	ND	0.0039	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
n-Propylbenzene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Styrene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.00098	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Toluene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,1,1-Trichloroethane	ND	0.0020	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Trichloroethylene	ND	0.0020	0.00089	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0098	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00079	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00059	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Vinyl Acetate	ND	0.0098	0.0066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
Vinyl Chloride	ND	0.0098	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
m+p Xylene	ND	0.0039	0.0017	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF
o-Xylene	ND	0.0020	0.00069	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 16:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	93.9	70-130		7/10/13 16:34
Toluene-d8	102	70-130		7/10/13 16:34
4-Bromofluorobenzene	98.6	70-130		7/10/13 16:34

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 16:34	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Acenaphthylene	ND	0.19	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Benzo(a)anthracene	ND	0.19	0.088	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Benzo(a)pyrene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Benzo(b)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Benzo(g,h,i)perylene	ND	0.19	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Benzo(k)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Benzoic Acid	ND	1.1	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Bis(2-chloroethoxy)methane	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Bis(2-chloroethyl)ether	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Bis(2-chloroisopropyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.087	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
4-Bromophenylphenylether	ND	0.39	0.096	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Butylbenzylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
4-Chloroaniline	ND	0.75	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
4-Chloro-3-methylphenol	ND	0.75	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2-Chloronaphthalene	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2-Chlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
4-Chlorophenylphenylether	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Chrysene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Dibenzofuran	ND	0.39	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Di-n-butylphthalate	ND	0.39	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
1,2-Dichlorobenzene	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
1,3-Dichlorobenzene	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
1,4-Dichlorobenzene	ND	0.39	0.096	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
3,3-Dichlorobenzidine	ND	0.19	0.18	mg/Kg dry	1	V-04	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2,4-Dichlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Diethylphthalate	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2,4-Dimethylphenol	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Dimethylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
4,6-Dinitro-2-methylphenol	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2,4-Dinitrophenol	ND	0.75	0.39	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Di-n-octylphthalate	ND	0.76	0.53	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Fluorene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Hexachlorobenzene	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Hexachlorobutadiene	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	L-04	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Hexachloroethane	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Isophorone	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.19	0.074	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2-Methylnaphthalene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
3/4-Methylphenol	ND	0.39	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Naphthalene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Nitrobenzene	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2-Nitrophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
4-Nitrophenol	ND	0.75	0.68	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
N-Nitrosodiphenylamine	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
N-Nitrosodi-n-propylamine	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Pentachlorophenol	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Phenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Pyrene	ND	0.19	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
1,2,4-Trichlorobenzene	ND	0.39	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL
2,4,6-Trichlorophenol	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270D	7/10/13	7/21/13 12:54	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	59.9	30-130		7/21/13 12:54
Phenol-d6	64.4	30-130		7/21/13 12:54
Nitrobenzene-d5	59.5	30-130		7/21/13 12:54
2-Fluorobiphenyl	54.0	30-130		7/21/13 12:54
2,4,6-Tribromophenol	83.7	30-130		7/21/13 12:54
p-Terphenyl-d14	64.1	30-130		7/21/13 12:54

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.96	mg/Kg dry	775217	14.38	1	000301-02-0	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Cyclic octaatomic sulfur	0.24	mg/Kg dry	395894	12.438	1	010544-50-0	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Hexadecanoic acid, butyl ester	0.60	mg/Kg dry	485893	13.134	1	000111-06-8	SW-846 8270D	7/10/13	7/21/13 12:54	BGL
Octadecanoic acid, butyl ester	0.32	mg/Kg dry	259675	14.539	1	000123-95-5	SW-846 8270D	7/10/13	7/21/13 12:54	BGL

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
C19-C36 Aliphatics	17	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:38	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	69.4	40-140		7/11/13 15:38
o-Terphenyl (OTP)	72.6	40-140		7/11/13 15:38
2-Bromonaphthalene	83.8	40-140		7/11/13 15:38
2-Fluorobiphenyl	92.8	40-140		7/11/13 15:38

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.02

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
Unadjusted C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
C9-C10 Aromatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
Benzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
Ethylbenzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
Naphthalene	ND	0.32	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
Toluene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
m+p Xylene	ND	0.13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH
o-Xylene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 17:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	**149** *	70-130	S-17	7/11/13 17:31
2,5-Dibromotoluene (PID)	91.9	70-130		7/11/13 17:31

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2 Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	42	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 17:59	OP
Lead	5.3	0.85	0.39	mg/Kg dry	1	B-07	SW-846 6010C	7/10/13	7/11/13 17:59	OP

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

Project Location: Compressor, Boiler, Oil Pump Ro
Sample Description:
Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: CR-2
Sampled: 7/8/2013 16:30

Sample ID: 13G0268-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Benzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Bromobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Bromochloromethane	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Bromodichloromethane	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Bromoform	ND	0.0022	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1	R-05	SW-846 8260B	7/10/13	7/10/13 17:03	MFF
2-Butanone (MEK)	ND	0.044	0.019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
tert-Butyl Alcohol (TBA)	ND	0.044	0.023	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 17:03	MFF
n-Butylbenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
sec-Butylbenzene	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
tert-Butylbenzene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Carbon Tetrachloride	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Chlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Chlorodibromomethane	ND	0.0044	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Chloroethane	ND	0.022	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Chloroform	ND	0.0044	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Chloromethane	ND	0.011	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
2-Chlorotoluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
4-Chlorotoluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,2-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,3-Dichlorobenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,4-Dichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,1-Dichloroethane	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,2-Dichloroethane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,1-Dichloroethylene	ND	0.0044	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
cis-1,2-Dichloroethylene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
trans-1,2-Dichloroethylene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,2-Dichloropropane	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,3-Dichloropropane	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
2,2-Dichloropropane	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,1-Dichloropropene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Ethylbenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
2-Hexanone (MBK)	ND	0.044	0.012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Isopropylbenzene (Cumene)	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.022	0.0078	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.044	0.0083	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Naphthalene	ND	0.0044	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
n-Propylbenzene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Styrene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Tetrachloroethylene	ND	0.0022	0.0014	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Toluene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,2,3-Trichlorobenzene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,2,4-Trichlorobenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,1,1-Trichloroethane	ND	0.0022	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,1,2-Trichloroethane	ND	0.0022	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Trichloroethylene	ND	0.0022	0.00098	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,2,3-Trichloropropane	ND	0.0022	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,2,4-Trimethylbenzene	ND	0.0022	0.00087	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
1,3,5-Trimethylbenzene	ND	0.0022	0.00066	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Vinyl Acetate	ND	0.011	0.0073	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
m+p Xylene	ND	0.0044	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF
o-Xylene	ND	0.0022	0.00076	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	96.0	70-130		7/10/13 17:03
Toluene-d8	99.9	70-130		7/10/13 17:03
4-Bromofluorobenzene	97.8	70-130		7/10/13 17:03

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 17:03	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	0.088	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Acenaphthylene	ND	0.18	0.085	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Anthracene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Benzo(a)anthracene	ND	0.18	0.080	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Benzo(a)pyrene	ND	0.18	0.062	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Benzo(b)fluoranthene	ND	0.18	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Benzo(g,h,i)perylene	ND	0.18	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Benzo(k)fluoranthene	ND	0.18	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Benzoic Acid	ND	1.0	0.97	mg/Kg dry	1	L-04	SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Bis(2-chloroethoxy)methane	ND	0.35	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Bis(2-chloroethyl)ether	ND	0.35	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Bis(2-chloroisopropyl)ether	ND	0.35	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.35	0.079	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
4-Bromophenylphenylether	ND	0.35	0.087	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Butylbenzylphthalate	ND	0.35	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
4-Chloroaniline	ND	0.69	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
4-Chloro-3-methylphenol	ND	0.69	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2-Chloronaphthalene	ND	0.35	0.11	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2-Chlorophenol	ND	0.35	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
4-Chlorophenylphenylether	ND	0.35	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Chrysene	ND	0.18	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Dibenz(a,h)anthracene	ND	0.18	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Dibenzofuran	ND	0.35	0.082	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Di-n-butylphthalate	ND	0.35	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
1,2-Dichlorobenzene	ND	0.35	0.071	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
1,3-Dichlorobenzene	ND	0.35	0.083	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
1,4-Dichlorobenzene	ND	0.35	0.087	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
3,3-Dichlorobenzidine	ND	0.18	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2,4-Dichlorophenol	ND	0.35	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Diethylphthalate	ND	0.35	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2,4-Dimethylphenol	ND	0.35	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Dimethylphthalate	ND	0.35	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
4,6-Dinitro-2-methylphenol	ND	0.35	0.15	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2,4-Dinitrophenol	ND	0.69	0.35	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Di-n-octylphthalate	ND	0.70	0.48	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.35	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Fluoranthene	ND	0.18	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Fluorene	ND	0.18	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Hexachlorobenzene	ND	0.35	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Hexachlorobutadiene	ND	0.35	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Hexachlorocyclopentadiene	ND	0.35	0.23	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Hexachloroethane	ND	0.35	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Indeno(1,2,3-cd)pyrene	ND	0.18	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Isophorone	ND	0.35	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.18	0.068	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2-Methylnaphthalene	ND	0.18	0.094	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2-Methylphenol	ND	0.35	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
3/4-Methylphenol	ND	0.35	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Naphthalene	ND	0.18	0.078	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Nitrobenzene	ND	0.35	0.098	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2-Nitrophenol	ND	0.35	0.10	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 13:01	CMR
4-Nitrophenol	ND	0.69	0.62	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 13:01	CMR
N-Nitrosodiphenylamine	ND	0.35	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
N-Nitrosodi-n-propylamine	ND	0.35	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Pentachlorophenol	ND	0.35	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Phenanthrene	ND	0.18	0.095	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Phenol	ND	0.35	0.094	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
Pyrene	ND	0.18	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
1,2,4-Trichlorobenzene	ND	0.35	0.085	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR
2,4,6-Trichlorophenol	ND	0.35	0.23	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 13:01	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	35.5	30-130		7/22/13 13:01
Phenol-d6	53.9	30-130		7/22/13 13:01
Nitrobenzene-d5	63.0	30-130		7/22/13 13:01
2-Fluorobiphenyl	61.3	30-130		7/22/13 13:01
2,4,6-Tribromophenol	68.0	30-130		7/22/13 13:01
p-Terphenyl-d14	87.3	30-130		7/22/13 13:01

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	2.1	mg/Kg dry	3075010	14.568	1	000301-02-0	SW-846 8270D	7/10/13	7/22/13 13:01	CMR

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
C19-C36 Aliphatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
C11-C22 Aromatics	ND	10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Acenaphthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Acenaphthylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Benzo(a)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Benzo(a)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Benzo(b)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Benzo(g,h,i)perylene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Benzo(k)fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Chrysene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Dibenz(a,h)anthracene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Fluoranthene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Fluorene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
2-Methylnaphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Naphthalene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Phenanthrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM
Pyrene	ND	0.10	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:17	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	68.4	40-140		7/11/13 15:17
o-Terphenyl (OTP)	69.8	40-140		7/11/13 15:17
2-Bromonaphthalene	82.2	40-140		7/11/13 15:17
2-Fluorobiphenyl	91.2	40-140		7/11/13 15:17

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.97

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	11	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
C5-C8 Aliphatics	ND	11	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
Unadjusted C9-C12 Aliphatics	ND	11	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
C9-C12 Aliphatics	ND	11	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
C9-C10 Aromatics	ND	11	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
Benzene	ND	0.056	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
Ethylbenzene	ND	0.056	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.056	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
Naphthalene	ND	0.28	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
Toluene	ND	0.056	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
m+p Xylene	ND	0.11	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH
o-Xylene	ND	0.056	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	124	70-130		7/11/13 18:07
2,5-Dibromotoluene (PID)	76.2	70-130		7/11/13 18:07

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	29	0.52	0.13	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 18:04	OP
Lead	1.8	0.77	0.36	mg/Kg dry	1	B	SW-846 6010C	7/10/13	7/11/13 18:04	OP

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-1 Sampled: 7/8/2013 16:40

Sample ID: 13G0268-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.032	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Benzene	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Bromobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Bromochloromethane	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Bromodichloromethane	ND	0.0027	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Bromoform	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Bromomethane	ND	0.013	0.0023	mg/Kg dry	1	R-05	SW-846 8260B	7/10/13	7/10/13 17:31	MFF
2-Butanone (MEK)	ND	0.054	0.024	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
tert-Butyl Alcohol (TBA)	ND	0.054	0.028	mg/Kg dry	1	V-16	SW-846 8260B	7/10/13	7/10/13 17:31	MFF
n-Butylbenzene	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
sec-Butylbenzene	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
tert-Butylbenzene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Carbon Tetrachloride	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Chlorobenzene	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Chlorodibromomethane	ND	0.0054	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Chloroethane	ND	0.027	0.0020	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Chloroform	ND	0.0054	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
2-Chlorotoluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
4-Chlorotoluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,2-Dichlorobenzene	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,3-Dichlorobenzene	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,4-Dichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,1-Dichloroethane	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,2-Dichloroethane	ND	0.0027	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,1-Dichloroethylene	ND	0.0054	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
cis-1,2-Dichloroethylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
trans-1,2-Dichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,2-Dichloropropane	ND	0.0027	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,3-Dichloropropane	ND	0.0013	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
2,2-Dichloropropane	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,1-Dichloropropene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Diisopropyl Ether (DIPE)	ND	0.0013	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Ethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
2-Hexanone (MBK)	ND	0.054	0.015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Isopropylbenzene (Cumene)	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0054	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.027	0.0096	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.054	0.010	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Naphthalene	ND	0.0054	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
n-Propylbenzene	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Styrene	ND	0.0027	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Tetrachloroethylene	ND	0.0027	0.0018	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Toluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,2,3-Trichlorobenzene	ND	0.0027	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,2,4-Trichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,1,1-Trichloroethane	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,1,2-Trichloroethane	ND	0.0027	0.0016	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Trichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,2,3-Trichloropropane	ND	0.0027	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,2,4-Trimethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
1,3,5-Trimethylbenzene	ND	0.0027	0.00081	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Vinyl Acetate	ND	0.013	0.0090	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
Vinyl Chloride	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
m+p Xylene	ND	0.0054	0.0023	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF
o-Xylene	ND	0.0027	0.00094	mg/Kg dry	1		SW-846 8260B	7/10/13	7/10/13 17:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	95.0	70-130		7/10/13 17:31
Toluene-d8	101	70-130		7/10/13 17:31
4-Bromofluorobenzene	96.9	70-130		7/10/13 17:31

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/10/13	7/10/13 17:31	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Acenaphthylene	ND	0.20	0.097	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Benzo(a)anthracene	ND	0.20	0.091	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Benzo(a)pyrene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
4-Bromophenylphenylether	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
4-Chloroaniline	ND	0.78	0.20	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
4-Chloro-3-methylphenol	ND	0.78	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2-Chloronaphthalene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Dibenzofuran	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 16:55	CMR
1,2-Dichlorobenzene	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
1,3-Dichlorobenzene	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
1,4-Dichlorobenzene	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2,4-Dinitrophenol	ND	0.78	0.40	mg/Kg dry	1	V-20	SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Di-n-octylphthalate	ND	0.79	0.55	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Naphthalene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
4-Nitrophenol	ND	0.78	0.70	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 16:55	CMR
N-Nitrosodiphenylamine	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
1,2,4-Trichlorobenzene	ND	0.40	0.097	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/10/13	7/22/13 16:55	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	52.8	30-130		7/22/13 16:55
Phenol-d6	52.9	30-130		7/22/13 16:55
Nitrobenzene-d5	57.4	30-130		7/22/13 16:55
2-Fluorobiphenyl	53.4	30-130		7/22/13 16:55
2,4,6-Tribromophenol	67.1	30-130		7/22/13 16:55
p-Terphenyl-d14	69.6	30-130		7/22/13 16:55

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	1.0	mg/Kg dry	1155310	14.527	1	000301-02-0	SW-846 8270D	7/10/13	7/22/13 16:55	CMR
Hexadecanoic acid, 1,1-dime...	0.21	mg/Kg dry	233814	13.769	1	031158-91-5	SW-846 8270D	7/10/13	7/22/13 16:55	CMR

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/10/13	7/11/13 15:59	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	57.7	40-140		7/11/13 15:59
o-Terphenyl (OTP)	55.2	40-140		7/11/13 15:59
2-Bromonaphthalene	76.8	40-140		7/11/13 15:59
2-Fluorobiphenyl	82.7	40-140		7/11/13 15:59

con-test® ANALYTICAL LABORATORY

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.86

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
C5-C8 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
Unadjusted C9-C12 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
C9-C12 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
C9-C10 Aromatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
Benzene	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
Ethylbenzene	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
Naphthalene	ND	0.40	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
Toluene	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
m+p Xylene	ND	0.16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH
o-Xylene	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 18:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	124	70-130		7/11/13 18:43
2,5-Dibromotoluene (PID)	76.0	70-130		7/11/13 18:43

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

Project Location: Compressor, Boiler, Oil Pump Ro Sample Description: Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2 Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	14	0.58	0.15	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 18:09	OP
Lead	4.8	0.87	0.40	mg/Kg dry	1	B-07	SW-846 6010C	7/10/13	7/11/13 18:09	OP

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

Project Location: Compressor, Boiler, Oil Pump Ro
Sample Description:
Work Order: 13G0268

Date Received: 7/9/2013

Field Sample #: BR-2
Sampled: 7/8/2013 17:00

Sample ID: 13G0268-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.1		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0268-02 [CR-1]	B076443	20.0	2.00	07/10/13
13G0268-03 [CR-2]	B076443	20.0	2.00	07/10/13
13G0268-04 [BR-1]	B076443	20.0	2.00	07/10/13
13G0268-05 [BR-2]	B076443	20.3	2.00	07/10/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0268-02 [CR-1]	B076454	13.8	16.7	07/11/13
13G0268-03 [CR-2]	B076454	15.2	17.1	07/11/13
13G0268-04 [BR-1]	B076454	14.6	15.7	07/11/13
13G0268-05 [BR-2]	B076454	12.9	17.2	07/11/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0268-02 [CR-1]	B076932	07/17/13
13G0268-03 [CR-2]	B076932	07/17/13
13G0268-04 [BR-1]	B076932	07/17/13
13G0268-05 [BR-2]	B076932	07/17/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0268-02 [CR-1]	B076491	1.03	50.0	07/10/13
13G0268-03 [CR-2]	B076491	1.01	50.0	07/10/13
13G0268-04 [BR-1]	B076491	1.01	50.0	07/10/13
13G0268-05 [BR-2]	B076491	1.02	50.0	07/10/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0268-01 [Trip Blank]	B076481	5.00	10.0	07/10/13
13G0268-02 [CR-1]	B076481	5.18	10.0	07/10/13
13G0268-03 [CR-2]	B076481	5.83	10.0	07/10/13
13G0268-04 [BR-1]	B076481	4.76	10.0	07/10/13
13G0268-05 [BR-2]	B076481	4.41	10.0	07/10/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0268-02 [CR-1]	B076432	30.1	1.00	07/10/13
13G0268-03 [CR-2]	B076432	30.2	1.00	07/10/13
13G0268-04 [BR-1]	B076432	30.0	1.00	07/10/13
13G0268-05 [BR-2]	B076432	30.2	1.00	07/10/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076481 - SW-846 5035										
Blank (B076481-BLK1)				Prepared & Analyzed: 07/10/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076481 - SW-846 5035											
Blank (B076481-BLK1)				Prepared & Analyzed: 07/10/13							
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Acetate	ND	0.010	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0533*		mg/Kg wet	0.0500		107	70-130				
Surrogate: Toluene-d8	*0.0505*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0492*		mg/Kg wet	0.0500		98.3	70-130				
LCS (B076481-BS1)				Prepared & Analyzed: 07/10/13							
Acetone	0.200	0.10	mg/Kg wet	0.200		99.9	70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0242	0.0010	mg/Kg wet	0.0200		121	70-130		25		
Benzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Bromobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130		25		
Bromochloromethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130		25		
Bromodichloromethane	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130		25		
Bromoform	0.0162	0.0020	mg/Kg wet	0.0200		81.2	70-130		25		
Bromomethane	0.0187	0.010	mg/Kg wet	0.0200		93.7	40-130		25	R-05, V-20	†
2-Butanone (MEK)	0.176	0.040	mg/Kg wet	0.200		88.2	70-160		25		†
tert-Butyl Alcohol (TBA)	0.183	0.040	mg/Kg wet	0.200		91.7	40-130		25	V-16	†
n-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130		25		
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130		25		
tert-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130		25		
Carbon Tetrachloride	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130		25		
Chlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130		25		
Chlorodibromomethane	0.0180	0.0010	mg/Kg wet	0.0200		90.2	70-130		25		
Chloroethane	0.0201	0.020	mg/Kg wet	0.0200		100	70-130		25		
Chloroform	0.0191	0.0040	mg/Kg wet	0.0200		95.4	70-130		25		
Chloromethane	0.0174	0.010	mg/Kg wet	0.0200		87.0	70-130		25		
2-Chlorotoluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130		25		
4-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130		25		
1,2-Dibromoethane (EDB)	0.0196	0.0010	mg/Kg wet	0.0200		98.2	70-130		25		
1,2-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,3-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130		25		
1,4-Dichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0134	0.020	mg/Kg wet	0.0200		67.0	40-160		25	J	†
1,1-Dichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130		25		
1,2-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130		25		
1,1-Dichloroethylene	0.0250	0.0040	mg/Kg wet	0.0200		125	70-130		25		
cis-1,2-Dichloroethylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130		25		
trans-1,2-Dichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130		25		
1,2-Dichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076481 - SW-846 5035													
LCS (B076481-BS1)				Prepared & Analyzed: 07/10/13									
1,3-Dichloropropane	0.0208	0.0010	mg/Kg wet	0.0200		104		70-130			25		
2,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130			25		
1,1-Dichloropropene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130			25		
cis-1,3-Dichloropropene	0.0193	0.0010	mg/Kg wet	0.0200		96.3		70-130			25		
trans-1,3-Dichloropropene	0.0224	0.0010	mg/Kg wet	0.0200		112		70-130			25		
Diisopropyl Ether (DIPE)	0.0198	0.0010	mg/Kg wet	0.0200		98.9		70-130			25		
Ethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130			25		
2-Hexanone (MBK)	0.182	0.020	mg/Kg wet	0.200		91.2		70-160			25		†
Isopropylbenzene (Cumene)	0.0200	0.0020	mg/Kg wet	0.0200		99.8		70-130			25		
p-Isopropyltoluene (p-Cymene)	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130			25		
Methyl tert-Butyl Ether (MTBE)	0.0207	0.0040	mg/Kg wet	0.0200		104		70-130			25		
Methylene Chloride	0.0165	0.020	mg/Kg wet	0.0200		82.6		40-160			25	J	†
4-Methyl-2-pentanone (MIBK)	0.186	0.020	mg/Kg wet	0.200		93.1		70-160			25		†
Naphthalene	0.0169	0.0040	mg/Kg wet	0.0200		84.3		40-130			25		†
n-Propylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130			25		
Styrene	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130			25		
1,1,1,2-Tetrachloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130			25		
1,1,2,2-Tetrachloroethane	0.0188	0.0010	mg/Kg wet	0.0200		94.0		70-130			25		
Tetrachloroethylene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130			25		
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130			25		
1,2,3-Trichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.5		70-130			25		
1,2,4-Trichlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130			25		
1,1,1-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.2		70-130			25		
1,1,2-Trichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.0		70-130			25		
Trichloroethylene	0.0180	0.0020	mg/Kg wet	0.0200		90.2		70-130			25		
Trichlorofluoromethane (Freon 11)	0.0230	0.010	mg/Kg wet	0.0200		115		70-130			25		
1,2,3-Trichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.1		70-130			25		
1,2,4-Trimethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.5		70-130			25		
1,3,5-Trimethylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130			25		
Vinyl Acetate	0.178	0.010	mg/Kg wet	0.200		88.9		70-130			25		
Vinyl Chloride	0.0179	0.010	mg/Kg wet	0.0200		89.6		40-130			25		†
m+p Xylene	0.0411	0.0040	mg/Kg wet	0.0400		103		70-130			25		
o-Xylene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130			25		
Surrogate: 1,2-Dichloroethane-d4	*0.0477*		mg/Kg wet	0.0500		95.3		70-130					
Surrogate: Toluene-d8	*0.0512*		mg/Kg wet	0.0500		102		70-130					
Surrogate: 4-Bromofluorobenzene	*0.0502*		mg/Kg wet	0.0500		100		70-130					
LCS Dup (B076481-BSD1)				Prepared & Analyzed: 07/10/13									
Acetone	0.237	0.10	mg/Kg wet	0.200		119		70-160	17.1		25		†
tert-Amyl Methyl Ether (TAME)	0.0262	0.0010	mg/Kg wet	0.0200		**131**	*	70-130	7.86		25	L-07	
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130	4.62		25		
Bromobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	9.36		25		
Bromochloromethane	0.0225	0.0020	mg/Kg wet	0.0200		112		70-130	6.62		25		
Bromodichloromethane	0.0186	0.0020	mg/Kg wet	0.0200		92.9		70-130	3.06		25		
Bromoform	0.0188	0.0020	mg/Kg wet	0.0200		94.2		70-130	14.8		25		
Bromomethane	0.0307	0.010	mg/Kg wet	0.0200		**154**	*	40-130	**48.5**	*	25	L-07A, R-05, V-20	†
2-Butanone (MEK)	0.194	0.040	mg/Kg wet	0.200		97.2		70-160	9.79		25		†
tert-Butyl Alcohol (TBA)	0.203	0.040	mg/Kg wet	0.200		101		40-130	9.95		25	V-16	†
n-Butylbenzene	0.0196	0.0020	mg/Kg wet	0.0200		98.2		70-130	6.41		25		
sec-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	2.21		25		
tert-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-160	9.19		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0235	0.0010	mg/Kg wet	0.0200		117		70-130	9.46		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076481 - SW-846 5035												
LCS Dup (B076481-BSD1)				Prepared & Analyzed: 07/10/13								
Carbon Tetrachloride	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	8.64	25		
Chlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130	6.52	25		
Chlorodibromomethane	0.0191	0.0010	mg/Kg wet	0.0200		95.5		70-130	5.71	25		
Chloroethane	0.0222	0.020	mg/Kg wet	0.0200		111		70-130	10.1	25		
Chloroform	0.0205	0.0040	mg/Kg wet	0.0200		103		70-130	7.37	25		
Chloromethane	0.0181	0.010	mg/Kg wet	0.0200		90.5		70-130	3.94	25		
2-Chlorotoluene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	7.52	25		
4-Chlorotoluene	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130	8.77	25		
1,2-Dibromoethane (EDB)	0.0216	0.0010	mg/Kg wet	0.0200		108		70-130	9.32	25		
1,2-Dichlorobenzene	0.0223	0.0020	mg/Kg wet	0.0200		111		70-130	8.03	25		
1,3-Dichlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	7.10	25		
1,4-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130	10.7	25		
Dichlorodifluoromethane (Freon 12)	0.0144	0.020	mg/Kg wet	0.0200		72.0		40-160	7.19	25	J	†
1,1-Dichloroethane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	8.37	25		
1,2-Dichloroethane	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-130	4.49	25		
1,1-Dichloroethylene	0.0278	0.0040	mg/Kg wet	0.0200		**139**	*	70-130	10.4	25	L-07	
cis-1,2-Dichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130	4.07	25		
trans-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.2		70-130	9.60	25		
1,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	3.49	25		
1,3-Dichloropropane	0.0216	0.0010	mg/Kg wet	0.0200		108		70-130	3.68	25		
2,2-Dichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	3.94	25		
1,1-Dichloropropene	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	10.3	25		
cis-1,3-Dichloropropene	0.0212	0.0010	mg/Kg wet	0.0200		106		70-130	9.50	25		
trans-1,3-Dichloropropene	0.0250	0.0010	mg/Kg wet	0.0200		125		70-130	11.0	25		
Diisopropyl Ether (DIPE)	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130	9.62	25		
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130	7.00	25		
2-Hexanone (MBK)	0.204	0.020	mg/Kg wet	0.200		102		70-160	10.9	25		†
Isopropylbenzene (Cumene)	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	3.83	25		
p-Isopropyltoluene (p-Cymene)	0.0231	0.0020	mg/Kg wet	0.0200		116		70-130	5.14	25		
Methyl tert-Butyl Ether (MTBE)	0.0228	0.0040	mg/Kg wet	0.0200		114		70-130	9.57	25		
Methylene Chloride	0.0185	0.020	mg/Kg wet	0.0200		92.5		40-160	11.3	25	J	†
4-Methyl-2-pentanone (MIBK)	0.200	0.020	mg/Kg wet	0.200		100		70-160	7.23	25		†
Naphthalene	0.0188	0.0040	mg/Kg wet	0.0200		94.0		40-130	10.9	25		†
n-Propylbenzene	0.0234	0.0020	mg/Kg wet	0.0200		117		70-130	7.45	25		
Styrene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	5.84	25		
1,1,1,2-Tetrachloroethane	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	11.5	25		
1,1,2,2-Tetrachloroethane	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130	9.23	25		
Tetrachloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		113		70-130	9.39	25		
Toluene	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130	3.28	25		
1,2,3-Trichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130	5.47	25		
1,2,4-Trichlorobenzene	0.0250	0.0020	mg/Kg wet	0.0200		125		70-130	12.0	25		
1,1,1-Trichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	7.83	25		
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130	4.18	25		
Trichloroethylene	0.0183	0.0020	mg/Kg wet	0.0200		91.3		70-130	1.21	25		
Trichlorofluoromethane (Freon 11)	0.0238	0.010	mg/Kg wet	0.0200		119		70-130	3.76	25		
1,2,3-Trichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	12.3	25		
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130	9.37	25		
1,3,5-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	6.26	25		
Vinyl Acetate	0.192	0.010	mg/Kg wet	0.200		96.0		70-130	7.65	25		
Vinyl Chloride	0.0179	0.010	mg/Kg wet	0.0200		89.6		40-130	0.00	25		†
m+p Xylene	0.0440	0.0040	mg/Kg wet	0.0400		110		70-130	6.77	25		
o-Xylene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	8.89	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076481 - SW-846 5035										
LCS Dup (B076481-BSD1)				Prepared & Analyzed: 07/10/13						
Surrogate: 1,2-Dichloroethane-d4	*0.0474*		mg/Kg wet	0.0500		94.9	70-130			
Surrogate: Toluene-d8	*0.0511*		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0498*		mg/Kg wet	0.0500		99.6	70-130			
Batch B076569 - SW-846 5035										
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04, V-05
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035												
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13								
Naphthalene	ND	0.0040	mg/Kg wet									
n-Propylbenzene	ND	0.0020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Acetate	ND	0.010	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0472*		mg/Kg wet	0.0500		94.4		70-130				
Surrogate: Toluene-d8	*0.0504*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		98.0		70-130				
LCS (B076569-BS1)				Prepared & Analyzed: 07/11/13								
Acetone	0.180	0.10	mg/Kg wet	0.200		89.8		70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0226	0.0010	mg/Kg wet	0.0200		113		70-130		25		
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5		70-130		25		
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130		25		
Bromochloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6		70-130		25		
Bromodichloromethane	0.0171	0.0020	mg/Kg wet	0.0200		85.4		70-130		25		
Bromoform	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130		25		
Bromomethane	0.0211	0.010	mg/Kg wet	0.0200		106		40-130		25	R-05, V-20	†
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.3		70-160		25		†
tert-Butyl Alcohol (TBA)	0.166	0.040	mg/Kg wet	0.200		83.1		40-130		25	V-16	†
n-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4		70-130		25		
sec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130		25		
tert-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0195	0.0010	mg/Kg wet	0.0200		97.3		70-130		25		
Carbon Tetrachloride	0.0184	0.0020	mg/Kg wet	0.0200		91.9		70-130		25		
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130		25		
Chlorodibromomethane	0.0186	0.0010	mg/Kg wet	0.0200		93.0		70-130		25		
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		110		70-130		25		
Chloroform	0.0177	0.0040	mg/Kg wet	0.0200		88.3		70-130		25		
Chloromethane	0.00978	0.010	mg/Kg wet	0.0200		**48.9**	*	70-130		25	J, L-04, V-05	
2-Chlorotoluene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130		25		
4-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,2-Dibromoethane (EDB)	0.0198	0.0010	mg/Kg wet	0.0200		99.0		70-130		25		
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130		25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0107	0.020	mg/Kg wet	0.0200		53.4		40-160		25	J	†

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035											
LCS (B076569-BS1)				Prepared & Analyzed: 07/11/13							
1,1-Dichloroethane	0.0163	0.0020	mg/Kg wet	0.0200		81.4	70-130		25		
1,2-Dichloroethane	0.0169	0.0020	mg/Kg wet	0.0200		84.3	70-130		25		
1,1-Dichloroethylene	0.0195	0.0040	mg/Kg wet	0.0200		97.3	70-130		25		
cis-1,2-Dichloroethylene	0.0169	0.0020	mg/Kg wet	0.0200		84.6	70-130		25		
trans-1,2-Dichloroethylene	0.0164	0.0020	mg/Kg wet	0.0200		82.1	70-130		25		
1,2-Dichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.0	70-130		25		
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130		25		
2,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130		25		
1,1-Dichloropropene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130		25		
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.3	70-130		25		
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130		25		
Diisopropyl Ether (DIPE)	0.0189	0.0010	mg/Kg wet	0.0200		94.3	70-130		25		
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130		25		
2-Hexanone (MBK)	0.190	0.020	mg/Kg wet	0.200		95.1	70-160		25		†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.0200		96.3	70-130		25		
Methylene Chloride	0.0169	0.020	mg/Kg wet	0.0200		84.5	40-160		25	J	†
4-Methyl-2-pentanone (MIBK)	0.190	0.020	mg/Kg wet	0.200		94.8	70-160		25		†
Naphthalene	0.0179	0.0040	mg/Kg wet	0.0200		89.3	40-130		25		†
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Styrene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130		25		
1,1,1,2-Tetrachloroethane	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130		25		
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130		25		
Tetrachloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130		25		
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130		25		
1,2,4-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130		25		
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130		25		
1,1,2-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130		25		
Trichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0223	0.010	mg/Kg wet	0.0200		112	70-130		25		
1,2,3-Trichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130		25		
1,2,4-Trimethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130		25		
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130		25		
Vinyl Acetate	0.167	0.010	mg/Kg wet	0.200		83.4	70-130		25		
Vinyl Chloride	0.0149	0.010	mg/Kg wet	0.0200		74.4	40-130		25		†
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		99.9	70-130		25		
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0470*		mg/Kg wet	0.0500		93.9	70-130				
Surrogate: Toluene-d8	*0.0514*		mg/Kg wet	0.0500		103	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0507*		mg/Kg wet	0.0500		101	70-130				

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076569 - SW-846 5035													
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13									
Acetone	0.209	0.10	mg/Kg wet	0.200		104		70-160	15.0		25		†
tert-Amyl Methyl Ether (TAME)	0.0248	0.0010	mg/Kg wet	0.0200		124		70-130	9.36		25		
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	12.5		25		
Bromobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	6.96		25		
Bromochloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130	9.85		25		
Bromodichloromethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130	11.8		25		
Bromoform	0.0177	0.0020	mg/Kg wet	0.0200		88.7		70-130	5.09		25		
Bromomethane	0.0303	0.010	mg/Kg wet	0.0200		**151**	*	40-130	**35.7**	*	25	L-07A, R-05, V-20	†
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.200		99.0		70-160	13.8		25		†
tert-Butyl Alcohol (TBA)	0.176	0.040	mg/Kg wet	0.200		87.9		40-130	5.64		25	V-16	†
n-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9		70-130	5.84		25		
sec-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130	6.82		25		
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-160	4.71		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0226	0.0010	mg/Kg wet	0.0200		113		70-130	14.8		25		
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	9.24		25		
Chlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	9.68		25		
Chlorodibromomethane	0.0200	0.0010	mg/Kg wet	0.0200		100		70-130	7.35		25		
Chloroethane	0.0247	0.020	mg/Kg wet	0.0200		124		70-130	11.4		25		
Chloroform	0.0200	0.0040	mg/Kg wet	0.0200		99.9		70-130	12.3		25		
Chloromethane	0.0105	0.010	mg/Kg wet	0.0200		**52.4**	*	70-130	6.91		25	L-04, V-05	
2-Chlorotoluene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	6.14		25		
4-Chlorotoluene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	5.84		25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		109		70-130	9.25		25		
1,2-Dichlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	9.17		25		
1,3-Dichlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117		70-130	10.1		25		
1,4-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130	3.38		25		
Dichlorodifluoromethane (Freon 12)	0.0114	0.020	mg/Kg wet	0.0200		57.1		40-160	6.70		25	J	†
1,1-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130	16.6		25		
1,2-Dichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-130	14.4		25		
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130	3.73		25		
cis-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9		70-130	10.4		25		
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		93.2		70-130	12.7		25		
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	8.74		25		
1,3-Dichloropropane	0.0222	0.0010	mg/Kg wet	0.0200		111		70-130	9.74		25		
2,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	12.7		25		
1,1-Dichloropropene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	17.0		25		
cis-1,3-Dichloropropene	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	13.8		25		
trans-1,3-Dichloropropene	0.0241	0.0010	mg/Kg wet	0.0200		121		70-130	15.7		25		
Diisopropyl Ether (DIPE)	0.0207	0.0010	mg/Kg wet	0.0200		104		70-130	9.30		25		
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	8.07		25		
2-Hexanone (MBK)	0.205	0.020	mg/Kg wet	0.200		102		70-160	7.37		25		†
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	7.40		25		
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	4.50		25		
Methyl tert-Butyl Ether (MTBE)	0.0216	0.0040	mg/Kg wet	0.0200		108		70-130	11.6		25		
Methylene Chloride	0.0186	0.020	mg/Kg wet	0.0200		93.1		40-160	9.68		25	J	†
4-Methyl-2-pentanone (MIBK)	0.206	0.020	mg/Kg wet	0.200		103		70-160	8.51		25		†
Naphthalene	0.0189	0.0040	mg/Kg wet	0.0200		94.7		40-130	5.87		25		†
n-Propylbenzene	0.0231	0.0020	mg/Kg wet	0.0200		115		70-130	8.40		25		
Styrene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	8.46		25		
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130	10.9		25		
1,1,2,2-Tetrachloroethane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130	9.94		25		
Tetrachloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	7.35		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13						
Toluene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	12.4	25	
1,2,3-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	2.30	25	
1,2,4-Trichlorobenzene	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	5.10	25	
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	8.68	25	
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	5.13	25	
Trichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	9.25	25	
Trichlorofluoromethane (Freon 11)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130	0.179	25	
1,2,3-Trichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130	4.53	25	
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130	7.06	25	
1,3,5-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	6.01	25	
Vinyl Acetate	0.182	0.010	mg/Kg wet	0.200		90.8	70-130	8.49	25	
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.0200		85.2	40-130	13.5	25	†
m+p Xylene	0.0431	0.0040	mg/Kg wet	0.0400		108	70-130	7.65	25	
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	9.78	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0464*		mg/Kg wet	0.0500		92.8	70-130			
Surrogate: Toluene-d8	*0.0515*		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		98.0	70-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076481 - SW-846 5035										
Blank (B076481-BLK1)				Prepared & Analyzed: 07/10/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076432 - SW-846 3546										
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.79*		mg/Kg wet	6.67		56.8		30-130				
Surrogate: Phenol-d6	*3.85*		mg/Kg wet	6.67		57.7		30-130				
Surrogate: Nitrobenzene-d5	*2.02*		mg/Kg wet	3.33		60.7		30-130				
Surrogate: 2-Fluorobiphenyl	*1.89*		mg/Kg wet	3.33		56.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.94*		mg/Kg wet	6.67		74.0		30-130				
Surrogate: p-Terphenyl-d14	*2.44*		mg/Kg wet	3.33		73.3		30-130				
LCS (B076432-BS1)				Prepared: 07/10/13 Analyzed: 07/20/13								
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140		30		
Acenaphthylene	1.13	0.17	mg/Kg wet	1.67		67.8		40-140		30		
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.9		40-140		30		
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.1		40-140		30		
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.6		40-140		30		
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.4		40-140		30	V-05	
Benzo(g,h,i)perylene	0.655	0.17	mg/Kg wet	1.67		**39.3**	*	40-140		30	L-07	
Benzo(k)fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.4		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	1.23	0.34	mg/Kg wet	1.67		73.6		40-140		30		
Bis(2-chloroethyl)ether	1.11	0.34	mg/Kg wet	1.67		66.8		40-140		30		
Bis(2-chloroisopropyl)ether	0.942	0.34	mg/Kg wet	1.67		56.5		40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	1.02	0.34	mg/Kg wet	1.67		61.2		40-140		30		
4-Bromophenylphenylether	1.32	0.34	mg/Kg wet	1.67		79.3		40-140		30		
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.5		40-140		30		
4-Chloroaniline	0.552	0.66	mg/Kg wet	1.67		33.1		10-140		30	J	†
4-Chloro-3-methylphenol	1.21	0.66	mg/Kg wet	1.67		72.7		30-130		30		
2-Chloronaphthalene	1.07	0.34	mg/Kg wet	1.67		64.2		40-140		30		
2-Chlorophenol	1.06	0.34	mg/Kg wet	1.67		63.9		30-130		30		
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		63.1		40-140		30		
Chrysene	1.23	0.17	mg/Kg wet	1.67		73.5		40-140		30		
Dibenz(a,h)anthracene	0.818	0.17	mg/Kg wet	1.67		49.1		40-140		30		
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.2		40-140		30		
Di-n-butylphthalate	1.22	0.34	mg/Kg wet	1.67		73.4		40-140		30		
1,2-Dichlorobenzene	0.973	0.34	mg/Kg wet	1.67		58.4		40-140		30		
1,3-Dichlorobenzene	0.956	0.34	mg/Kg wet	1.67		57.4		40-140		30		
1,4-Dichlorobenzene	0.948	0.34	mg/Kg wet	1.67		56.9		40-140		30		
3,3-Dichlorobenzidine	0.924	0.17	mg/Kg wet	1.67		55.4		20-140		50		†
2,4-Dichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.1		30-130		30		
Diethylphthalate	1.17	0.34	mg/Kg wet	1.67		70.4		40-140		30		
2,4-Dimethylphenol	1.28	0.34	mg/Kg wet	1.67		76.7		30-130		30		
Dimethylphthalate	1.22	0.34	mg/Kg wet	1.67		72.9		40-140		30		
4,6-Dinitro-2-methylphenol	1.45	0.34	mg/Kg wet	1.67		87.1		30-130		30		
2,4-Dinitrophenol	1.18	0.66	mg/Kg wet	1.67		70.6		30-130		30	V-06	
Di-n-octylphthalate	1.03	0.67	mg/Kg wet	1.67		62.0		40-140		30		
1,2-Diphenylhydrazine (as Azobenzene)	1.24	0.34	mg/Kg wet	1.67		74.2		40-140		30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
LCS (B076432-BS1)				Prepared: 07/10/13 Analyzed: 07/20/13								
Fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.4		40-140		30		
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.1		40-140		30		
Hexachlorobenzene	1.33	0.34	mg/Kg wet	1.67		79.9		40-140		30		
Hexachlorobutadiene	1.10	0.34	mg/Kg wet	1.67		66.3		40-140		30		
Hexachlorocyclopentadiene	0.438	0.34	mg/Kg wet	1.67		**26.3**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.940	0.34	mg/Kg wet	1.67		56.4		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	0.754	0.17	mg/Kg wet	1.67		45.3		40-140		30		
Isophorone	1.14	0.34	mg/Kg wet	1.67		68.2		40-140		30		
1-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.9		40-140		30		
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.3		40-140		30		
2-Methylphenol	1.12	0.34	mg/Kg wet	1.67		67.2		30-130		30		
3/4-Methylphenol	1.01	0.34	mg/Kg wet	1.67		60.5		30-130		30	V-05	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.0		40-140		30		
Nitrobenzene	1.05	0.34	mg/Kg wet	1.67		63.2		40-140		30		
2-Nitrophenol	1.27	0.34	mg/Kg wet	1.67		76.1		30-130		30		
4-Nitrophenol	1.08	0.66	mg/Kg wet	1.67		64.8		30-130		50	V-05	
N-Nitrosodiphenylamine	1.51	0.34	mg/Kg wet	1.67		90.9		40-140		30		
N-Nitrosodi-n-propylamine	0.911	0.34	mg/Kg wet	1.67		54.6		40-140		30	V-05	
Pentachlorophenol	0.987	0.34	mg/Kg wet	1.67		59.2		30-130		30		
Phenanthrene	1.23	0.17	mg/Kg wet	1.67		74.0		40-140		30		
Phenol	0.917	0.34	mg/Kg wet	1.67		55.0		30-130		30		
Pyrene	1.27	0.17	mg/Kg wet	1.67		76.1		40-140		30		
1,2,4-Trichlorobenzene	1.15	0.34	mg/Kg wet	1.67		68.9		40-140		30		
2,4,6-Trichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.2		30-130		30		
Surrogate: 2-Fluorophenol	*4.29*		mg/Kg wet	6.67		64.3		30-130				
Surrogate: Phenol-d6	*4.05*		mg/Kg wet	6.67		60.7		30-130				
Surrogate: Nitrobenzene-d5	*2.19*		mg/Kg wet	3.33		65.6		30-130				
Surrogate: 2-Fluorobiphenyl	*2.09*		mg/Kg wet	3.33		62.6		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.38*		mg/Kg wet	6.67		95.7		30-130				
Surrogate: p-Terphenyl-d14	*2.78*		mg/Kg wet	3.33		83.3		30-130				
LCS Dup (B076432-BSD1)				Prepared: 07/10/13 Analyzed: 07/20/13								
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.2		40-140	2.16	30		
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140	1.90	30		
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.3		40-140	0.827	30		
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2		40-140	2.68	30		
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140	0.307	30		
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.3		40-140	0.126	30	V-05	
Benzo(g,h,i)perylene	0.676	0.17	mg/Kg wet	1.67		40.5		40-140	3.11	30		
Benzo(k)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.4		40-140	2.84	30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.17	0.34	mg/Kg wet	1.67		70.1		40-140	4.84	30		
Bis(2-chloroethyl)ether	1.07	0.34	mg/Kg wet	1.67		64.0		40-140	4.40	30		
Bis(2-chloroisopropyl)ether	0.901	0.34	mg/Kg wet	1.67		54.1		40-140	4.38	30	V-05	
Bis(2-Ethylhexyl)phthalate	0.997	0.34	mg/Kg wet	1.67		59.8		40-140	2.18	30		
4-Bromophenylphenylether	1.27	0.34	mg/Kg wet	1.67		75.9		40-140	4.30	30		
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.3		40-140	1.59	30		
4-Chloroaniline	0.484	0.66	mg/Kg wet	1.67		29.1		10-140	13.1	30	J	†
4-Chloro-3-methylphenol	1.24	0.66	mg/Kg wet	1.67		74.6		30-130	2.50	30		
2-Chloronaphthalene	1.09	0.34	mg/Kg wet	1.67		65.2		40-140	1.48	30		
2-Chlorophenol	1.02	0.34	mg/Kg wet	1.67		61.4		30-130	3.99	30		
4-Chlorophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	1.67	30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076432 - SW-846 3546												
LCS Dup (B076432-BSD1)				Prepared: 07/10/13 Analyzed: 07/20/13								
Chrysene	1.19	0.17	mg/Kg wet	1.67		71.3		40-140	3.12	30		
Dibenz(a,h)anthracene	0.830	0.17	mg/Kg wet	1.67		49.8		40-140	1.46	30		
Dibenzofuran	1.10	0.34	mg/Kg wet	1.67		66.3		40-140	0.181	30		
Di-n-butylphthalate	1.18	0.34	mg/Kg wet	1.67		71.0		40-140	3.30	30		
1,2-Dichlorobenzene	0.930	0.34	mg/Kg wet	1.67		55.8		40-140	4.52	30		
1,3-Dichlorobenzene	0.912	0.34	mg/Kg wet	1.67		54.7		40-140	4.78	30		
1,4-Dichlorobenzene	0.907	0.34	mg/Kg wet	1.67		54.4		40-140	4.39	30		
3,3-Dichlorobenzidine	0.882	0.17	mg/Kg wet	1.67		52.9		20-140	4.65	50		† ‡
2,4-Dichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.6		30-130	3.56	30		
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		70.9		40-140	0.793	30		
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.2		30-130	4.62	30		
Dimethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.6		40-140	0.522	30		
4,6-Dinitro-2-methylphenol	1.45	0.34	mg/Kg wet	1.67		86.8		30-130	0.253	30		
2,4-Dinitrophenol	1.29	0.66	mg/Kg wet	1.67		77.4		30-130	9.19	30	V-06	
Di-n-octylphthalate	1.04	0.67	mg/Kg wet	1.67		62.5		40-140	0.771	30		
1,2-Diphenylhydrazine (as Azobenzene)	1.19	0.34	mg/Kg wet	1.67		71.4		40-140	3.87	30		
Fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.5		40-140	3.65	30		
Fluorene	1.03	0.17	mg/Kg wet	1.67		62.1		40-140	1.62	30		
Hexachlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.6		40-140	5.45	30		
Hexachlorobutadiene	1.04	0.34	mg/Kg wet	1.67		62.6		40-140	5.65	30		
Hexachlorocyclopentadiene	0.453	0.34	mg/Kg wet	1.67		**27.2**	*	40-140	3.36	30	L-04, V-05	
Hexachloroethane	0.901	0.34	mg/Kg wet	1.67		54.0		40-140	4.24	30	V-05	
Indeno(1,2,3-cd)pyrene	0.763	0.17	mg/Kg wet	1.67		45.8		40-140	1.19	30		
Isophorone	1.08	0.34	mg/Kg wet	1.67		64.5		40-140	5.64	30		
1-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.5		40-140	5.47	30		
2-Methylnaphthalene	0.952	0.17	mg/Kg wet	1.67		57.1		40-140	5.41	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.3		30-130	4.41	30		
3/4-Methylphenol	0.932	0.34	mg/Kg wet	1.67		55.9		30-130	7.83	30	V-05	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.7		40-140	3.69	30		
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.7		40-140	2.37	30		
2-Nitrophenol	1.23	0.34	mg/Kg wet	1.67		74.0		30-130	2.77	30		
4-Nitrophenol	1.17	0.66	mg/Kg wet	1.67		70.1		30-130	7.98	50	V-05	‡
N-Nitrosodiphenylamine	1.47	0.34	mg/Kg wet	1.67		88.0		40-140	3.20	30		
N-Nitrosodi-n-propylamine	0.871	0.34	mg/Kg wet	1.67		52.3		40-140	4.41	30	V-05	
Pentachlorophenol	0.999	0.34	mg/Kg wet	1.67		59.9		30-130	1.14	30		
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.4		40-140	3.66	30		
Phenol	0.896	0.34	mg/Kg wet	1.67		53.8		30-130	2.28	30		
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.7		40-140	0.448	30		
1,2,4-Trichlorobenzene	1.10	0.34	mg/Kg wet	1.67		66.1		40-140	4.21	30		
2,4,6-Trichlorophenol	1.16	0.34	mg/Kg wet	1.67		69.8		30-130	3.32	30		
Surrogate: 2-Fluorophenol	*4.10*		mg/Kg wet	6.67		61.4		30-130				
Surrogate: Phenol-d6	*3.84*		mg/Kg wet	6.67		57.7		30-130				
Surrogate: Nitrobenzene-d5	*2.09*		mg/Kg wet	3.33		62.6		30-130				
Surrogate: 2-Fluorobiphenyl	*1.97*		mg/Kg wet	3.33		59.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.60*		mg/Kg wet	6.67		99.0		30-130				
Surrogate: p-Terphenyl-d14	*2.74*		mg/Kg wet	3.33		82.1		30-130				

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076432 - SW-846 3546										
Blank (B076432-BLK1)				Prepared: 07/10/13 Analyzed: 07/20/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076443 - SW-846 3546										
Blank (B076443-BLK1)				Prepared & Analyzed: 07/10/13						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*6.94*		mg/Kg wet	4.99		139	40-140			
Surrogate: o-Terphenyl (OTP)	*4.12*		mg/Kg wet	5.00		82.4	40-140			
Surrogate: 2-Bromonaphthalene	*5.75*		mg/Kg wet	5.00		115	40-140			
Surrogate: 2-Fluorobiphenyl	*6.05*		mg/Kg wet	5.00		121	40-140			
LCS (B076443-BS1)				Prepared & Analyzed: 07/10/13						
Acenaphthene	4.31	0.10	mg/Kg wet	5.00		86.2	40-140			
Acenaphthylene	4.37	0.10	mg/Kg wet	5.00		87.4	40-140			
Anthracene	5.19	0.10	mg/Kg wet	5.00		104	40-140			
Benzo(a)anthracene	5.59	0.10	mg/Kg wet	5.00		112	40-140			
Benzo(a)pyrene	5.24	0.10	mg/Kg wet	5.00		105	40-140			
Benzo(b)fluoranthene	5.50	0.10	mg/Kg wet	5.00		110	40-140			
Benzo(g,h,i)perylene	5.24	0.10	mg/Kg wet	5.00		105	40-140			
Benzo(k)fluoranthene	5.35	0.10	mg/Kg wet	5.00		107	40-140			
Chrysene	5.17	0.10	mg/Kg wet	5.00		103	40-140			
Dibenz(a,h)anthracene	5.44	0.10	mg/Kg wet	5.00		109	40-140			
Fluoranthene	5.27	0.10	mg/Kg wet	5.00		105	40-140			
Fluorene	4.72	0.10	mg/Kg wet	5.00		94.3	40-140			
Indeno(1,2,3-cd)pyrene	5.61	0.10	mg/Kg wet	5.00		112	40-140			
2-Methylnaphthalene	4.40	0.10	mg/Kg wet	5.00		88.1	40-140			
Naphthalene	4.12	0.10	mg/Kg wet	5.00		82.4	40-140			
Phenanthrene	5.11	0.10	mg/Kg wet	5.00		102	40-140			
Pyrene	5.21	0.10	mg/Kg wet	5.00		104	40-140			
n-Decane	2.79	0.10	mg/Kg wet	5.00		55.8	40-140			
n-Docosane	4.84	0.10	mg/Kg wet	5.00		96.7	40-140			
n-Dodecane	3.35	0.10	mg/Kg wet	5.00		67.1	40-140			
n-Eicosane	4.59	0.10	mg/Kg wet	5.00		91.9	40-140			
n-Hexacosane	4.93	0.10	mg/Kg wet	5.00		98.6	40-140			
n-Hexadecane	4.13	0.10	mg/Kg wet	5.00		82.6	40-140			
n-Hexatriacontane	4.22	0.10	mg/Kg wet	5.00		84.4	40-140			
n-Nonadecane	4.54	0.10	mg/Kg wet	5.00		90.7	40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076443 - SW-846 3546										
LCS (B076443-BS1)				Prepared & Analyzed: 07/10/13						
n-Nonane	2.01	0.10	mg/Kg wet	5.00		40.2	30-140			
n-Octacosane	4.80	0.10	mg/Kg wet	5.00		95.9	40-140			
n-Octadecane	4.44	0.10	mg/Kg wet	5.00		88.7	40-140			
n-Tetracosane	4.89	0.10	mg/Kg wet	5.00		97.8	40-140			
n-Tetradecane	3.72	0.10	mg/Kg wet	5.00		74.4	40-140			
n-Triacontane	4.92	0.10	mg/Kg wet	5.00		98.3	40-140			
Naphthalene-aliphatic fraction	0.0957	0.10	mg/Kg wet	5.00		1.91	0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*4.43*		mg/Kg wet	4.99		88.8	40-140			
Surrogate: o-Terphenyl (OTP)	*4.33*		mg/Kg wet	5.00		86.6	40-140			
Surrogate: 2-Bromonaphthalene	*5.82*		mg/Kg wet	5.00		116	40-140			
Surrogate: 2-Fluorobiphenyl	*6.22*		mg/Kg wet	5.00		124	40-140			
LCS Dup (B076443-BSD1)				Prepared & Analyzed: 07/10/13						
Acenaphthene	4.17	0.10	mg/Kg wet	5.00		83.4	40-140	3.34	25	
Acenaphthylene	4.22	0.10	mg/Kg wet	5.00		84.3	40-140	3.57	25	
Anthracene	5.00	0.10	mg/Kg wet	5.00		100	40-140	3.67	25	
Benzo(a)anthracene	5.36	0.10	mg/Kg wet	5.00		107	40-140	4.12	25	
Benzo(a)pyrene	5.02	0.10	mg/Kg wet	5.00		100	40-140	4.36	25	
Benzo(b)fluoranthene	5.24	0.10	mg/Kg wet	5.00		105	40-140	4.71	25	
Benzo(g,h,i)perylene	5.03	0.10	mg/Kg wet	5.00		101	40-140	4.04	25	
Benzo(k)fluoranthene	5.12	0.10	mg/Kg wet	5.00		102	40-140	4.39	25	
Chrysene	4.97	0.10	mg/Kg wet	5.00		99.3	40-140	4.07	25	
Dibenz(a,h)anthracene	5.22	0.10	mg/Kg wet	5.00		104	40-140	4.12	25	
Fluoranthene	5.07	0.10	mg/Kg wet	5.00		101	40-140	3.80	25	
Fluorene	4.54	0.10	mg/Kg wet	5.00		90.7	40-140	3.90	25	
Indeno(1,2,3-cd)pyrene	5.37	0.10	mg/Kg wet	5.00		107	40-140	4.23	25	
2-Methylnaphthalene	4.26	0.10	mg/Kg wet	5.00		85.2	40-140	3.37	25	
Naphthalene	3.97	0.10	mg/Kg wet	5.00		79.4	40-140	3.62	25	
Phenanthrene	4.93	0.10	mg/Kg wet	5.00		98.6	40-140	3.66	25	
Pyrene	5.00	0.10	mg/Kg wet	5.00		100	40-140	3.99	25	
n-Decane	2.54	0.10	mg/Kg wet	5.00		50.9	40-140	9.32	25	
n-Docosane	4.29	0.10	mg/Kg wet	5.00		85.8	40-140	11.9	25	
n-Dodecane	3.02	0.10	mg/Kg wet	5.00		60.5	40-140	10.3	25	
n-Eicosane	4.04	0.10	mg/Kg wet	5.00		80.8	40-140	12.8	25	
n-Hexacosane	4.44	0.10	mg/Kg wet	5.00		88.7	40-140	10.5	25	
n-Hexadecane	3.67	0.10	mg/Kg wet	5.00		73.4	40-140	11.9	25	
n-Hexatriacontane	3.97	0.10	mg/Kg wet	5.00		79.3	40-140	6.23	25	
n-Nonadecane	4.00	0.10	mg/Kg wet	5.00		79.9	40-140	12.7	25	
n-Nonane	1.86	0.10	mg/Kg wet	5.00		37.2	30-140	7.63	25	
n-Octacosane	4.35	0.10	mg/Kg wet	5.00		87.0	40-140	9.79	25	
n-Octadecane	3.91	0.10	mg/Kg wet	5.00		78.2	40-140	12.6	25	
n-Tetracosane	4.38	0.10	mg/Kg wet	5.00		87.7	40-140	10.9	25	
n-Tetradecane	3.34	0.10	mg/Kg wet	5.00		66.8	40-140	10.8	25	
n-Triacontane	4.50	0.10	mg/Kg wet	5.00		90.0	40-140	8.84	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.87*		mg/Kg wet	4.99		77.5	40-140			
Surrogate: o-Terphenyl (OTP)	*4.05*		mg/Kg wet	5.00		81.0	40-140			
Surrogate: 2-Bromonaphthalene	*5.58*		mg/Kg wet	5.00		112	40-140			
Surrogate: 2-Fluorobiphenyl	*6.06*		mg/Kg wet	5.00		121	40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076443 - SW-846 3546										
Matrix Spike (B076443-MS1)		**Source: 13G0268-04**		Prepared: 07/10/13 Analyzed: 07/11/13						
C9-C18 Aliphatics	24.1	10	mg/Kg dry	30.9	5.44	60.3	40-140			
C19-C36 Aliphatics	37.6	10	mg/Kg dry	41.2	6.07	76.6	40-140			
Unadjusted C11-C22 Aromatics	75.4	10	mg/Kg dry	87.5	6.36	78.9	40-140			
Acenaphthene	3.56	0.10	mg/Kg dry	5.15	0.00	69.2	40-140			
Acenaphthylene	3.41	0.10	mg/Kg dry	5.15	0.00	66.2	40-140			
Anthracene	3.90	0.10	mg/Kg dry	5.15	0.00	75.7	40-140			
Benzo(a)anthracene	4.33	0.10	mg/Kg dry	5.15	0.00	84.2	40-140			
Benzo(a)pyrene	4.23	0.10	mg/Kg dry	5.15	0.00	82.2	40-140			
Benzo(b)fluoranthene	4.38	0.10	mg/Kg dry	5.15	0.00	85.1	40-140			
Benzo(g,h,i)perylene	4.44	0.10	mg/Kg dry	5.15	0.00	86.4	40-140			
Benzo(k)fluoranthene	4.33	0.10	mg/Kg dry	5.15	0.00	84.1	40-140			
Chrysene	4.06	0.10	mg/Kg dry	5.15	0.00	79.0	40-140			
Dibenz(a,h)anthracene	4.47	0.10	mg/Kg dry	5.15	0.00	86.8	40-140			
Fluoranthene	4.06	0.10	mg/Kg dry	5.15	0.00	78.9	40-140			
Fluorene	3.64	0.10	mg/Kg dry	5.15	0.00	70.8	40-140			
Indeno(1,2,3-cd)pyrene	4.53	0.10	mg/Kg dry	5.15	0.00	88.1	40-140			
2-Methylnaphthalene	3.35	0.10	mg/Kg dry	5.15	0.00	65.1	40-140			
Naphthalene	3.08	0.10	mg/Kg dry	5.15	0.00	59.8	40-140			
Phenanthrene	3.87	0.10	mg/Kg dry	5.15	0.00	75.2	40-140			
Pyrene	3.98	0.10	mg/Kg dry	5.15	0.00	77.3	40-140			
n-Nonane	1.59	0.10	mg/Kg dry	5.15	0.00	31.0	30-140			
Surrogate: Chlorooctadecane (COD)	*3.65*		mg/Kg dry	5.14		71.1	40-140			
Surrogate: o-Terphenyl (OTP)	*3.58*		mg/Kg dry	5.15		69.6	40-140			
Surrogate: 2-Bromonaphthalene	*3.97*		mg/Kg dry	5.15		77.1	40-140			
Surrogate: 2-Fluorobiphenyl	*4.55*		mg/Kg dry	5.15		88.4	40-140			
Matrix Spike Dup (B076443-MSD1)		**Source: 13G0268-04**		Prepared: 07/10/13 Analyzed: 07/11/13						
C9-C18 Aliphatics	24.6	10	mg/Kg dry	31.0	5.44	61.6	40-140	2.08	50	
C19-C36 Aliphatics	33.3	10	mg/Kg dry	41.4	6.07	65.8	40-140	12.1	50	
Unadjusted C11-C22 Aromatics	72.4	10	mg/Kg dry	87.9	6.36	75.2	40-140	3.96	50	
Acenaphthene	3.50	0.10	mg/Kg dry	5.17	0.00	67.6	40-140	1.82	50	
Acenaphthylene	3.30	0.10	mg/Kg dry	5.17	0.00	63.8	40-140	3.14	50	
Anthracene	3.82	0.10	mg/Kg dry	5.17	0.00	73.8	40-140	2.07	50	
Benzo(a)anthracene	4.15	0.10	mg/Kg dry	5.17	0.00	80.2	40-140	4.29	50	
Benzo(a)pyrene	3.94	0.10	mg/Kg dry	5.17	0.00	76.2	40-140	7.03	50	
Benzo(b)fluoranthene	4.09	0.10	mg/Kg dry	5.17	0.00	79.1	40-140	6.72	50	
Benzo(g,h,i)perylene	4.10	0.10	mg/Kg dry	5.17	0.00	79.3	40-140	7.99	50	
Benzo(k)fluoranthene	4.05	0.10	mg/Kg dry	5.17	0.00	78.4	40-140	6.57	50	
Chrysene	3.93	0.10	mg/Kg dry	5.17	0.00	76.0	40-140	3.30	50	
Dibenz(a,h)anthracene	4.14	0.10	mg/Kg dry	5.17	0.00	80.1	40-140	7.51	50	
Fluoranthene	3.97	0.10	mg/Kg dry	5.17	0.00	76.8	40-140	2.18	50	
Fluorene	3.59	0.10	mg/Kg dry	5.17	0.00	69.5	40-140	1.35	50	
Indeno(1,2,3-cd)pyrene	4.18	0.10	mg/Kg dry	5.17	0.00	80.8	40-140	8.13	50	
2-Methylnaphthalene	3.27	0.10	mg/Kg dry	5.17	0.00	63.3	40-140	2.38	50	
Naphthalene	2.99	0.10	mg/Kg dry	5.17	0.00	57.8	40-140	2.93	50	
Phenanthrene	3.83	0.10	mg/Kg dry	5.17	0.00	74.0	40-140	1.13	50	
Pyrene	3.89	0.10	mg/Kg dry	5.17	0.00	75.2	40-140	2.24	50	
n-Nonane	1.62	0.10	mg/Kg dry	5.17	0.00	31.3	30-140	1.63	50	
Surrogate: Chlorooctadecane (COD)	*3.44*		mg/Kg dry	5.16		66.7	40-140			
Surrogate: o-Terphenyl (OTP)	*3.53*		mg/Kg dry	5.17		68.3	40-140			
Surrogate: 2-Bromonaphthalene	*3.89*		mg/Kg dry	5.17		75.1	40-140			
Surrogate: 2-Fluorobiphenyl	*4.61*		mg/Kg dry	5.17		89.2	40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076454 - MA VPH										
Blank (B076454-BLK1)				Prepared & Analyzed: 07/11/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*3.07*		mg/Kg wet	3.33		92.1	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.99*		mg/Kg wet	3.33		89.8	70-130			
LCS (B076454-BS1)				Prepared & Analyzed: 07/11/13						
Benzene	4.94	0.050	mg/Kg wet	5.00		98.8	70-130			
Butylcyclohexane	4.02	0.050	mg/Kg wet	5.00		80.4	70-130			
Decane	4.25	0.050	mg/Kg wet	5.00		84.9	70-130			
Ethylbenzene	5.31	0.050	mg/Kg wet	5.00		106	70-130			
Methyl tert-Butyl Ether (MTBE)	5.05	0.050	mg/Kg wet	5.00		101	70-130			
2-Methylpentane	4.16	0.050	mg/Kg wet	5.00		83.2	70-130			
Naphthalene	5.48	0.25	mg/Kg wet	5.00		110	70-130			
Nonane	4.03	0.050	mg/Kg wet	5.00		80.7	30-130			
Pentane	3.86	0.050	mg/Kg wet	5.00		77.1	70-130			
Toluene	5.18	0.050	mg/Kg wet	5.00		104	70-130			
1,2,4-Trimethylbenzene	5.05	0.050	mg/Kg wet	5.00		101	70-130			
2,2,4-Trimethylpentane	4.21	0.050	mg/Kg wet	5.00		84.2	70-130			
m+p Xylene	10.8	0.10	mg/Kg wet	10.0		108	70-130			
o-Xylene	5.29	0.050	mg/Kg wet	5.00		106	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*2.86*		mg/Kg wet	3.33		85.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.76*		mg/Kg wet	3.33		82.9	70-130			
LCS Dup (B076454-BSD1)				Prepared & Analyzed: 07/11/13						
Benzene	4.81	0.050	mg/Kg wet	5.00		96.2	70-130	2.69	25	
Butylcyclohexane	4.15	0.050	mg/Kg wet	5.00		83.0	70-130	3.10	25	
Decane	4.48	0.050	mg/Kg wet	5.00		89.6	70-130	5.41	25	
Ethylbenzene	5.15	0.050	mg/Kg wet	5.00		103	70-130	3.10	25	
Methyl tert-Butyl Ether (MTBE)	5.06	0.050	mg/Kg wet	5.00		101	70-130	0.184	25	
2-Methylpentane	4.01	0.050	mg/Kg wet	5.00		80.3	70-130	3.58	25	
Naphthalene	5.51	0.25	mg/Kg wet	5.00		110	70-130	0.651	25	
Nonane	4.16	0.050	mg/Kg wet	5.00		83.3	30-130	3.16	25	
Pentane	3.75	0.050	mg/Kg wet	5.00		75.0	70-130	2.71	25	
Toluene	5.03	0.050	mg/Kg wet	5.00		101	70-130	2.85	25	
1,2,4-Trimethylbenzene	4.92	0.050	mg/Kg wet	5.00		98.4	70-130	2.62	25	
2,2,4-Trimethylpentane	4.06	0.050	mg/Kg wet	5.00		81.3	70-130	3.54	25	
m+p Xylene	10.5	0.10	mg/Kg wet	10.0		105	70-130	2.93	25	
o-Xylene	5.14	0.050	mg/Kg wet	5.00		103	70-130	2.91	25	
Surrogate: 2,5-Dibromotoluene (FID)	*3.17*		mg/Kg wet	3.33		95.2	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.94*		mg/Kg wet	3.33		88.2	70-130			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076491 - SW-846 3050B										
Blank (B076491-BLK1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Chromium	ND	0.50	mg/Kg wet							
Lead	0.38	0.75	mg/Kg wet							J, B
LCS (B076491-BS1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Chromium	126	1.0	mg/Kg wet	125		101	81.6-117.6		30	
Lead	123	1.5	mg/Kg wet	136		90.3	82.4-117.8		30	
LCS Dup (B076491-BSD1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Chromium	126	1.0	mg/Kg wet	125		100	81.6-117.6	0.725	30	
Lead	122	1.5	mg/Kg wet	136		89.9	82.4-117.8	0.494	30	
MRL Check (B076491-MRL1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Lead	0.668	0.75	mg/Kg wet	0.746		89.5	80-120			J

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076932 - % Solids										
Duplicate (B076932-DUP1)		**Source: 13G0268-03**		Prepared: 07/17/13 Analyzed: 07/18/13						
% Solids	83.7		% Wt		87.2			4.10	20	

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-03	Elevated reporting limit due to matrix.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-17	Surrogate recovery is outside of control limits. Data validation is not affected since all results are less than the reporting limit and bias is on the high side.

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-17	Internal standard area <50% of associated calibration standard internal standard area.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

ANALYST

SMC	Steven M. Case
RH	Robert H. Witherell
PEB	Paula E. Blakeborough
OP	Ornela Piluri
MJH	Matthew J. Hammond
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
EEH	Eric E. Hess
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
CMF	Chris M. Foley
CJM	Christian J. Merchant
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 6010C in Soil	
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0268

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Compressor, Boiler, and Oil Pump Rooms
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)	Chromium and Lead (SW-846 6010C)				Comments
01	Trip Blank	-	-	Lab	S	3	2	1				x								
02	CR-1	7/8/13	1610	BM	S	6	2	3			1	x	x	x	x	x				
03	CR-2		1630		S	6	2	3			1	x	x	x	x	x				
04	BR-1		1640		S	6	2	3			1	x	x	x	x	x				
05	BR-2		1700		S	6	2	3			1	x	x	x	x	x				
					S	6	2	3			1	x	x	x	x	x				
					S	6	2	3			1	x	x	x	x	x				
					S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BJ [illegible]	7/8/13 1830	1 Fed-X	2	7.9.13 9:45	2 Paula Blakeborne (2°C)
3		3	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice: ☐

07-09-13 12:38 IN

FedEx.

875382506890

Ship (P/U) date :
Mon 7/08/2013 4:13 pm
VALLEY COTTAGE, NY US

Delivered
Signed for by: P BLAKE

Actual delivery :
Tues 7/09/2013 9:49 am
MA US

Travel History

Date/Time	Activity	Location
- 7/09/2013 - Tuesday		
9:49 am	Delivered	MA
8:04 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:11 am	At local FedEx facility	WINDSOR LOCKS, CT
3:38 am	Departed FedEx location	NEWARK, NJ
- 7/08/2013 - Monday		
11:10 pm	Arrived at FedEx location	NEWARK, NJ
9:17 pm	Left FedEx origin facility	RONKONKOMA, NY
4:13 pm	Picked up	RONKONKOMA, NY

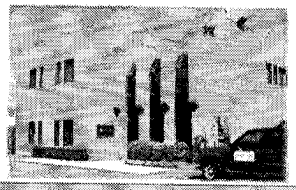
Local Scan Time

Shipment Facts

Tracking number	875382506890	**Service**	FedEx Priority Overnight
Weight	43 lbs	**Dimensions**	18x14x10 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	43 lbs / 19.5 kgs	**Packaging**	Your Packaging
Special handling section	Deliver Weekday		

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.9.13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

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

Temperature °C by Temp blank 2 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Log m

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

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	4
500 mL Amber		4 oz amber/clear jar	4
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	19	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 9
Bisulfate _____ # DI Water 10
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-09-13 12:33 IN

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

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC - Wash Water UST
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0331

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0331

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

PROJECT LOCATION: Lenoir, NC - Wash Water UST

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0331-01	Trip Blank Water		SW-846 8260B	
				SW-846 8260C	
WWA-1	13G0331-02	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076523-BS1	B076523-BSD1
C9-C18	80%	72%
C19-C36	99%	92%
C11-C22	76%	89%

VPH	B076746-BS1	B076746-BSD1
C9-C10	97%	98%

con-test® ANALYTICAL LABORATORY

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

MADEP-EPH-04-1.1

Qualifications:

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

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics, n-Decane, n-Nonane

13G0331-02[WWA-1], B076523-BLK1, B076523-BS1, B076523-BSD1

SW-846 8260B

Qualifications:

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

Analyte & Samples(s) Qualified:

Methylene Chloride

13G0331-01[Trip Blank], B076741-BLK1, B076741-BS1, B076741-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076741-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane

13G0331-01[Trip Blank], B076741-BLK1, B076741-BS1, B076741-BSD1

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

Analyte & Samples(s) Qualified:

Methylene Chloride

13G0331-01[Trip Blank], B076741-BLK1, B076741-BS1, B076741-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA), Vinyl Acetate

13G0331-02[WWA-1], B076754-BLK1, B076754-BS1, B076754-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

Bromomethane

13G0331-01[Trip Blank], B076741-BLK1, B076741-BS1, B076741-BSD1

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

Analyte & Samples(s) Qualified:

2,2-Dichloropropane, Bromomethane

B076741-BS1, B076741-BSD1, B076754-BS1, B076754-BSD1

SW-846 8270D

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

Qualifications:

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

Analyte & Samples(s) Qualified:

Benzoic Acid

13G0331-02[WWA-1], B076726-BLK1, B076726-BS1, B076726-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

B076726-BSD1

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

Analyte & Samples(s) Qualified:

1,2-Diphenylhydrazine (as Azobenzene), 2,4-Dinitrophenol, 2-Chloronaphthalene, Hexachlorocyclopentadiene, Pentachlorophenol

13G0331-02[WWA-1], B076726-BLK1, B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

B076726-BS1

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

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzo(b)fluoranthene, Benzoic Acid, Di-n-butylphthalate, Di-n-octylphthalate, Hexachlorocyclopentadiene, N-Nitrosodi-n-propylamine

13G0331-02[WWA-1], B076726-BLK1, B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, Benzo(g,h,i)perylene

13G0331-02[WWA-1], B076726-BLK1

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

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

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

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Lenoir, NC - Wash Water UST Sample Description: Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/9/2013 00:00

Sample ID: 13G0331-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Bromobenzene	ND	1.0	0.044	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Bromomethane	ND	2.0	0.94	µg/L	1	R-05, V-19	SW-846 8260B	7/15/13	7/18/13 12:42	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
n-Butylbenzene	ND	1.0	0.054	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
sec-Butylbenzene	ND	1.0	0.084	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
tert-Butylbenzene	ND	1.0	0.096	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.075	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
2-Chlorotoluene	ND	1.0	0.070	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
4-Chlorotoluene	ND	1.0	0.074	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
2,2-Dichloropropane	ND	1.0	0.072	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
cis-1,3-Dichloropropene	ND	1.0	0.062	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD

con-test® ANALYTICAL LABORATORY

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

Project Location: Lenoir, NC - Wash Water UST Sample Description: Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: Trip Blank Sampled: 7/9/2013 00:00

Sample ID: 13G0331-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	5.0	3.2	µg/L	1	L-04, V-05	SW-846 8260B	7/15/13	7/18/13 12:42	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
n-Propylbenzene	ND	1.0	0.094	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.10	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 12:42	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	103	70-130		7/18/13 12:42
Toluene-d8	97.6	70-130		7/18/13 12:42
4-Bromofluorobenzene	99.8	70-130		7/18/13 12:42

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

Project Location: Lenoir, NC - Wash Water UST
Sample Description:
Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: Trip Blank
Sampled: 7/9/2013 00:00

Sample ID: 13G0331-01

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1		SW-846 8260C	7/15/13	7/18/13 12:42	LBD

con-test® ANALYTICAL LABORATORY

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

Project Location: Lenoir, NC - Wash Water UST Sample Description: Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1 Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.063	0.13	0.030	mg/Kg dry	1	J	SW-846 8260B	7/15/13	7/16/13 11:38	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Benzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Bromodichloromethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Bromoform	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
2-Butanone (MEK)	ND	0.051	0.022	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
tert-Butyl Alcohol (TBA)	ND	0.051	0.027	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 11:38	MFF
n-Butylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
tert-Butylbenzene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Chlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Chlorodibromomethane	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Chloroethane	ND	0.026	0.0019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Chloroform	ND	0.0051	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
2-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
4-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,1-Dichloroethane	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,3-Dichloropropane	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
2,2-Dichloropropane	ND	0.0051	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Diisopropyl Ether (DIPE)	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Lenoir, NC - Wash Water UST Sample Description: Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1 Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.026	0.0091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0098	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Naphthalene	ND	0.0051	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
n-Propylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Styrene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,2,3-Trichlorobenzene	ND	0.013	0.00077	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,2,4-Trichlorobenzene	ND	0.013	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Trichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,2,4-Trimethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
1,3,5-Trimethylbenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Vinyl Acetate	ND	0.051	0.0086	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 11:38	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF
o-Xylene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:38	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	114	70-130		7/16/13 11:38
Toluene-d8	99.7	70-130		7/16/13 11:38
4-Bromofluorobenzene	101	70-130		7/16/13 11:38

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

Project Location: Lenoir, NC - Wash Water UST
Sample Description:
Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1
Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.036	mg/Kg dry	354660	2.587	1	000110-54-3	SW-846 8260C	7/15/13	7/16/13 11:38	MFF

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

Project Location: Lenoir, NC - Wash Water UST Sample Description: Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1 Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.096	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Acenaphthylene	ND	0.19	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Benzo(a)anthracene	ND	0.19	0.087	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Benzo(a)pyrene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Benzo(b)fluoranthene	ND	0.19	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Benzo(g,h,i)perylene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Benzo(k)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Benzoic Acid	ND	1.1	1.1	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Bis(2-chloroethoxy)methane	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Bis(2-chloroethyl)ether	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.086	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
4-Bromophenylphenylether	ND	0.38	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Butylbenzylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
4-Chloroaniline	ND	0.75	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
4-Chloro-3-methylphenol	ND	0.75	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2-Chloronaphthalene	ND	0.38	0.12	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2-Chlorophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
4-Chlorophenylphenylether	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Chrysene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Dibenzofuran	ND	0.38	0.089	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Di-n-butylphthalate	ND	0.38	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
1,2-Dichlorobenzene	ND	0.38	0.077	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
1,3-Dichlorobenzene	ND	0.38	0.090	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
1,4-Dichlorobenzene	ND	0.38	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
3,3-Dichlorobenzidine	ND	0.19	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2,4-Dichlorophenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Diethylphthalate	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2,4-Dimethylphenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Dimethylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2,4-Dinitrophenol	ND	0.75	0.38	mg/Kg dry	1	R-05, V-20	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Di-n-octylphthalate	ND	0.76	0.53	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	0.18	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Fluorene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Hexachlorobenzene	ND	0.38	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Hexachlorobutadiene	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Hexachloroethane	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Isophorone	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Lenoir, NC - Wash Water UST Sample Description: Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1 Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.19	0.073	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2-Methylnaphthalene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
3/4-Methylphenol	ND	0.38	0.21	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Naphthalene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Nitrobenzene	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2-Nitrophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
4-Nitrophenol	ND	0.75	0.67	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
N-Nitrosodiphenylamine	ND	0.38	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
N-Nitrosodi-n-propylamine	ND	0.38	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Pentachlorophenol	ND	0.38	0.15	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Phenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
1,2,4-Trichlorobenzene	ND	0.38	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR
2,4,6-Trichlorophenol	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 21:32	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	47.6	30-130		7/22/13 21:32
Phenol-d6	47.4	30-130		7/22/13 21:32
Nitrobenzene-d5	50.8	30-130		7/22/13 21:32
2-Fluorobiphenyl	51.4	30-130		7/22/13 21:32
2,4,6-Tribromophenol	62.9	30-130		7/22/13 21:32
p-Terphenyl-d14	68.5	30-130		7/22/13 21:32

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

Project Location: Lenoir, NC - Wash Water UST Sample Description: Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1 Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
10-Methylnonadecane	0.48	mg/Kg dry	471188	13.315	1	056862-62-5	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
9-Octadecenamide, (Z)-	0.66	mg/Kg dry	616150	14.521	1	000301-02-0	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Heptadecane, 2-methyl-	0.20	mg/Kg dry	193047	13.239	1	001560-89-0	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Hexadecanamide	0.15	mg/Kg dry	144873	14.615	1	000629-54-9	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Hexadecane	0.57	mg/Kg dry	555973	13.457	1	000544-76-3	SW-846 8270D	7/15/13	7/22/13 21:32	CMR
Nonadecane	0.16	mg/Kg dry	153212	12.539	1	000629-92-5	SW-846 8270D	7/15/13	7/22/13 21:32	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Lenoir, NC - Wash Water UST Sample Description: Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1 Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
C19-C36 Aliphatics	13	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Unadjusted C11-C22 Aromatics	11	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
C11-C22 Aromatics	11	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:23	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.5	40-140		7/12/13 14:23
o-Terphenyl (OTP)	76.8	40-140		7/12/13 14:23
2-Bromonaphthalene	89.5	40-140		7/12/13 14:23
2-Fluorobiphenyl	98.0	40-140		7/12/13 14:23

con-test® ANALYTICAL LABORATORY

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

Project Location: Lenoir, NC - Wash Water UST | Sample Description: | Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1 | Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.93

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
Benzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
Ethylbenzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
Toluene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH
o-Xylene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:18	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	115	70-130		7/15/13 21:18
2,5-Dibromotoluene (PID)	79.4	70-130		7/15/13 21:18

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

Project Location: Lenoir, NC - Wash Water UST
Sample Description:
Work Order: 13G0331

Date Received: 7/9/2013

Field Sample #: WWA-1
Sampled: 7/9/2013 16:10

Sample ID: 13G0331-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	7/18/13	7/19/13 10:37	RH

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

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0331-02 [WWA-1]	B076523	20.2	2.00	07/11/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0331-02 [WWA-1]	B076746	14.0	16.8	07/15/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0331-02 [WWA-1]	B076997	07/18/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0331-02 [WWA-1]	B076754	4.41	10.0	07/15/13

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0331-01 [Trip Blank]	B076741	5	5.00	07/15/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0331-02 [WWA-1]	B076726	30.1	1.00	07/15/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
Acetone	ND	50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							R-05, V-19
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							L-04, V-05
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076741 - SW-846 5030B											
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13							
Tetrahydrofuran	ND	10	µg/L								
Toluene	ND	1.0	µg/L								
1,2,3-Trichlorobenzene	ND	5.0	µg/L								
1,2,4-Trichlorobenzene	ND	1.0	µg/L								
1,1,1-Trichloroethane	ND	1.0	µg/L								
1,1,2-Trichloroethane	ND	1.0	µg/L								
Trichloroethylene	ND	1.0	µg/L								
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L								
1,2,3-Trichloropropane	ND	2.0	µg/L								
1,2,4-Trimethylbenzene	ND	1.0	µg/L								
1,3,5-Trimethylbenzene	ND	1.0	µg/L								
Vinyl Acetate	ND	20	µg/L								
Vinyl Chloride	ND	2.0	µg/L								
m+p Xylene	ND	2.0	µg/L								
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130				
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.9	70-130				
LCS (B076741-BS1)				Prepared: 07/15/13 Analyzed: 07/18/13							
Acetone	85.3	50	µg/L	100		85.3	70-160		25		†
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102	70-130		25		
Benzene	9.42	1.0	µg/L	10.0		94.2	70-130		25		
Bromobenzene	10.2	1.0	µg/L	10.0		102	70-130		25		
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130		25		
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130		25		
Bromoform	9.53	1.0	µg/L	10.0		95.3	70-130		25		
Bromomethane	12.1	2.0	µg/L	10.0		121	40-160		25	R-05, V-19, V-20	†
2-Butanone (MEK)	83.3	20	µg/L	100		83.3	40-160		25		†
tert-Butyl Alcohol (TBA)	74.6	20	µg/L	100		74.6	40-160		25		†
n-Butylbenzene	10.9	1.0	µg/L	10.0		109	70-130		25		
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105	70-130		25		
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103	70-130		25		
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0		104	70-130		25		
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110	70-130		25		
Chlorobenzene	10.4	1.0	µg/L	10.0		104	70-130		25		
Chlorodibromomethane	9.71	0.50	µg/L	10.0		97.1	70-130		25		
Chloroethane	9.97	2.0	µg/L	10.0		99.7	70-130		25		
Chloroform	10.6	2.0	µg/L	10.0		106	70-130		25		
Chloromethane	4.79	2.0	µg/L	10.0		47.9	40-160		25		†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105	70-130		25		
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110	70-130		25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130		25		
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130		25		
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130		25		
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130		25		
Dichlorodifluoromethane (Freon 12)	5.67	2.0	µg/L	10.0		56.7	40-160		25		†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130		25		
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130		25		
1,1-Dichloroethylene	9.64	1.0	µg/L	10.0		96.4	70-130		25		
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130		25		
trans-1,2-Dichloroethylene	12.6	1.0	µg/L	10.0		126	70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076741 - SW-846 5030B													
LCS (B076741-BS1)				Prepared: 07/15/13 Analyzed: 07/18/13									
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103		70-130			25		
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103		70-130			25		
2,2-Dichloropropane	12.0	1.0	µg/L	10.0		120		40-130			25	V-20	†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104		70-130			25		
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4		70-130			25		
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130			25		
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.0		100		70-130			25		
Ethylbenzene	10.5	1.0	µg/L	10.0		105		70-130			25		
2-Hexanone (MBK)	86.1	10	µg/L	100		86.1		70-160			25		†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108		70-130			25		
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107		70-130			25		
Methyl tert-Butyl Ether (MTBE)	13.0	1.0	µg/L	10.0		130		70-130			25		
Methylene Chloride	4.44	5.0	µg/L	10.0		**44.4**	*	70-130			25	J, L-04, V-05	
4-Methyl-2-pentanone (MIBK)	89.0	10	µg/L	100		89.0		70-160			25		†
Naphthalene	9.08	2.0	µg/L	10.0		90.8		40-130			25		†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110		70-130			25		
Styrene	10.6	1.0	µg/L	10.0		106		70-130			25		
1,1,1,2-Tetrachloroethane	10.7	1.0	µg/L	10.0		107		70-130			25		
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104		70-130			25		
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107		70-130			25		
Tetrahydrofuran	8.57	10	µg/L	10.0		85.7		70-130			25	J	
Toluene	9.84	1.0	µg/L	10.0		98.4		70-130			25		
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.0		117		70-130			25		
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100		70-130			25		
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107		70-130			25		
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104		70-130			25		
Trichloroethylene	10.1	1.0	µg/L	10.0		101		70-130			25		
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110		70-130			25		
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106		70-130			25		
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.0		105		70-130			25		
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109		70-130			25		
Vinyl Acetate	88.8	20	µg/L	100		88.8		70-130			25		
Vinyl Chloride	6.19	2.0	µg/L	10.0		61.9		40-160			25		†
m+p Xylene	21.6	2.0	µg/L	20.0		108		70-130			25		
o-Xylene	10.6	1.0	µg/L	10.0		106		70-130			25		
Surrogate: 1,2-Dichloroethane-d4	*26.1*		µg/L	25.0		104		70-130					
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.3		70-130					
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102		70-130					
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13									
Acetone	78.7	50	µg/L	100		78.7		70-160	8.05		25		†
tert-Amyl Methyl Ether (TAME)	9.88	0.50	µg/L	10.0		98.8		70-130	2.89		25		
Benzene	9.06	1.0	µg/L	10.0		90.6		70-130	3.90		25		
Bromobenzene	10.0	1.0	µg/L	10.0		100		70-130	2.47		25		
Bromochloromethane	10.6	1.0	µg/L	10.0		106		70-130	0.663		25		
Bromodichloromethane	10.1	0.50	µg/L	10.0		101		70-130	2.64		25		
Bromoform	9.29	1.0	µg/L	10.0		92.9		70-130	2.55		25		
Bromomethane	16.1	2.0	µg/L	10.0		**161**	*	40-160	**28.0**	*	25	L-07A, R-05, V-19, V-20	†
2-Butanone (MEK)	79.0	20	µg/L	100		79.0		40-160	5.28		25		†
tert-Butyl Alcohol (TBA)	69.0	20	µg/L	100		69.0		40-160	7.76		25		†
n-Butylbenzene	10.3	1.0	µg/L	10.0		103		70-130	6.32		25		
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130	4.38		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076741 - SW-846 5030B												
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13								
tert-Butylbenzene	10.0	1.0	µg/L	10.0		100		70-130	2.75	25		
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101		70-130	3.61	25		
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104		70-130	5.15	25		
Chlorobenzene	9.96	1.0	µg/L	10.0		99.6		70-130	4.23	25		
Chlorodibromomethane	9.56	0.50	µg/L	10.0		95.6		70-130	1.56	25		
Chloroethane	9.82	2.0	µg/L	10.0		98.2		70-130	1.52	25		
Chloroform	10.3	2.0	µg/L	10.0		103		70-130	3.06	25		
Chloromethane	4.79	2.0	µg/L	10.0		47.9		40-160	0.00	25		†
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103		70-130	2.11	25		
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106		70-130	3.71	25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105		70-130	2.35	25		
1,2-Dichlorobenzene	9.73	1.0	µg/L	10.0		97.3		70-130	3.43	25		
1,3-Dichlorobenzene	9.75	1.0	µg/L	10.0		97.5		70-130	3.82	25		
1,4-Dichlorobenzene	9.84	1.0	µg/L	10.0		98.4		70-130	4.86	25		
Dichlorodifluoromethane (Freon 12)	5.51	2.0	µg/L	10.0		55.1		40-160	2.86	25		†
1,1-Dichloroethane	9.92	1.0	µg/L	10.0		99.2		70-130	3.86	25		
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130	3.14	25		
1,1-Dichloroethylene	9.12	1.0	µg/L	10.0		91.2		70-130	5.54	25		
cis-1,2-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3		70-130	5.15	25		
trans-1,2-Dichloroethylene	12.3	1.0	µg/L	10.0		123		70-130	2.58	25		
1,2-Dichloropropane	9.99	1.0	µg/L	10.0		99.9		70-130	2.76	25		
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104		70-130	0.773	25		
2,2-Dichloropropane	11.1	1.0	µg/L	10.0		111		40-130	7.79	25	V-20	†
1,1-Dichloropropene	9.92	2.0	µg/L	10.0		99.2		70-130	4.82	25		
cis-1,3-Dichloropropene	9.29	0.50	µg/L	10.0		92.9		70-130	4.73	25		
trans-1,3-Dichloropropene	9.81	0.50	µg/L	10.0		98.1		70-130	2.62	25		
Diisopropyl Ether (DIPE)	9.75	0.50	µg/L	10.0		97.5		70-130	2.73	25		
Ethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	3.58	25		
2-Hexanone (MBK)	84.0	10	µg/L	100		84.0		70-160	2.56	25		†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105		70-130	2.82	25		
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102		70-130	4.79	25		
Methyl tert-Butyl Ether (MTBE)	12.8	1.0	µg/L	10.0		128		70-130	1.79	25		
Methylene Chloride	4.20	5.0	µg/L	10.0		**42.0**	*	70-130	5.56	25	J, L-04, V-05	
4-Methyl-2-pentanone (MIBK)	86.2	10	µg/L	100		86.2		70-160	3.21	25		†
Naphthalene	8.48	2.0	µg/L	10.0		84.8		40-130	6.83	25		†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106		70-130	4.18	25		
Styrene	10.3	1.0	µg/L	10.0		103		70-130	2.88	25		
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104		70-130	3.02	25		
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130	2.72	25		
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105		70-130	1.79	25		
Tetrahydrofuran	8.36	10	µg/L	10.0		83.6		70-130	2.48	25	J	
Toluene	9.51	1.0	µg/L	10.0		95.1		70-130	3.41	25		
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109		70-130	6.99	25		
1,2,4-Trichlorobenzene	9.34	1.0	µg/L	10.0		93.4		70-130	6.83	25		
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102		70-130	4.68	25		
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103		70-130	1.06	25		
Trichloroethylene	9.82	1.0	µg/L	10.0		98.2		70-130	2.91	25		
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104		70-130	5.22	25		
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103		70-130	2.86	25		
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	3.48	25		
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104		70-130	4.14	25		
Vinyl Acetate	85.0	20	µg/L	100		85.0		70-130	4.28	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13						
Vinyl Chloride	5.78	2.0	µg/L	10.0		57.8	40-160	6.85	25	†
m+p Xylene	21.0	2.0	µg/L	20.0		105	70-130	2.54	25	
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130	3.16	25	
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			
Batch B076754 - SW-846 5035										
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet								
Methylene Chloride	ND	0.020	mg/Kg wet								
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet								
Naphthalene	ND	0.0040	mg/Kg wet								
n-Propylbenzene	ND	0.0020	mg/Kg wet								
Styrene	ND	0.0020	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet								
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Acetate	ND	0.010	mg/Kg wet							V-16	
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0525*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.7	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.0500		98.3	70-130				
LCS (B076754-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Acetone	0.190	0.10	mg/Kg wet	0.200		95.0	70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0233	0.0010	mg/Kg wet	0.0200		117	70-130		25		
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130		25		
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Bromochloromethane	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130		25		
Bromodichloromethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Bromoform	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130		25		
Bromomethane	0.0207	0.010	mg/Kg wet	0.0200		104	40-130		25	V-20	†
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	70-160		25		†
tert-Butyl Alcohol (TBA)	0.199	0.040	mg/Kg wet	0.200		99.7	40-130		25	V-16	†
n-Butylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
sec-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130		25		
tert-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0244	0.0010	mg/Kg wet	0.0200		122	70-130		25		
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130		25		
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Chlorodibromomethane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130		25		
Chloroethane	0.0227	0.020	mg/Kg wet	0.0200		114	70-130		25		
Chloroform	0.0231	0.0040	mg/Kg wet	0.0200		116	70-130		25		
Chloromethane	0.0163	0.010	mg/Kg wet	0.0200		81.5	70-130		25		
2-Chlorotoluene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130		25		
4-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130		25		
1,2-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS (B076754-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13							
1,3-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130		25		
1,4-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0175	0.020	mg/Kg wet	0.0200		87.5	40-160		25	J	†
1,1-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
1,2-Dichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130		25		
cis-1,2-Dichloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130		25		
trans-1,2-Dichloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130		25		
1,2-Dichloropropane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130		25		
1,3-Dichloropropane	0.0237	0.0010	mg/Kg wet	0.0200		119	70-130		25		
2,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130		25		
1,1-Dichloropropene	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130		25		
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130		25		
trans-1,3-Dichloropropene	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130		25		
Diisopropyl Ether (DIPE)	0.0248	0.0010	mg/Kg wet	0.0200		124	70-130		25		
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
2-Hexanone (MBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160		25		†
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0250	0.0040	mg/Kg wet	0.0200		125	70-130		25		
Methylene Chloride	0.0228	0.020	mg/Kg wet	0.0200		114	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-160		25		†
Naphthalene	0.0193	0.0040	mg/Kg wet	0.0200		96.5	40-130		25		†
n-Propylbenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130		25		
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130		25		
1,1,2,2-Tetrachloroethane	0.0219	0.0010	mg/Kg wet	0.0200		109	70-130		25		
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Toluene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130		25		
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130		25		
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,1,2-Trichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Trichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0230	0.010	mg/Kg wet	0.0200		115	70-130		25		
1,2,3-Trichloropropane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130		25		
1,2,4-Trimethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
1,3,5-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Vinyl Acetate	0.198	0.010	mg/Kg wet	0.200		99.1	70-130		25	V-16	
Vinyl Chloride	0.0189	0.010	mg/Kg wet	0.0200		94.5	40-130		25		†
m+p Xylene	0.0448	0.0040	mg/Kg wet	0.0400		112	70-130		25		
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0525*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0505*		mg/Kg wet	0.0500		101	70-130				

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Acetone	0.183	0.10	mg/Kg wet	0.200		91.3	70-160	3.93	25		†
tert-Amyl Methyl Ether (TAME)	0.0231	0.0010	mg/Kg wet	0.0200		115	70-130	1.21	25		
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.76	25		
Bromobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.853	25		
Bromochloromethane	0.0247	0.0020	mg/Kg wet	0.0200		123	70-130	0.243	25		
Bromodichloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.76	25		
Bromoform	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	1.65	25		
Bromomethane	0.0244	0.010	mg/Kg wet	0.0200		122	40-130	16.5	25	V-20	†
2-Butanone (MEK)	0.208	0.040	mg/Kg wet	0.200		104	70-160	1.69	25		†
tert-Butyl Alcohol (TBA)	0.202	0.040	mg/Kg wet	0.200		101	40-130	1.23	25	V-16	†
n-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	3.98	25		
sec-Butylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	2.08	25		
tert-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-160	3.17	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0241	0.0010	mg/Kg wet	0.0200		121	70-130	1.32	25		
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	0.103	25		
Chlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	2.83	25		
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130	3.35	25		
Chloroethane	0.0236	0.020	mg/Kg wet	0.0200		118	70-130	3.80	25		
Chloroform	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130	3.34	25		
Chloromethane	0.0164	0.010	mg/Kg wet	0.0200		81.9	70-130	0.490	25		
2-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	4.13	25		
4-Chlorotoluene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.46	25		
1,2-Dibromoethane (EDB)	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	1.02	25		
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.15	25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.25	25		
1,4-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.12	25		
Dichlorodifluoromethane (Freon 12)	0.0178	0.020	mg/Kg wet	0.0200		89.0	40-160	1.70	25	J	†
1,1-Dichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	0.354	25		
1,2-Dichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.917	25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130	0.00	25		
cis-1,2-Dichloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	0.618	25		
trans-1,2-Dichloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	1.64	25		
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.69	25		
1,3-Dichloropropane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	4.92	25		
2,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.868	25		
1,1-Dichloropropene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	0.508	25		
cis-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	1.63	25		
trans-1,3-Dichloropropene	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130	1.95	25		
Diisopropyl Ether (DIPE)	0.0242	0.0010	mg/Kg wet	0.0200		121	70-130	2.53	25		
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.68	25		
2-Hexanone (MBK)	0.203	0.020	mg/Kg wet	0.200		101	70-160	2.64	25		†
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	2.10	25		
p-Isopropyltoluene (p-Cymene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	2.59	25		
Methyl tert-Butyl Ether (MTBE)	0.0243	0.0040	mg/Kg wet	0.0200		122	70-130	2.76	25		
Methylene Chloride	0.0231	0.020	mg/Kg wet	0.0200		116	40-160	1.48	25		†
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		107	70-160	2.06	25		†
Naphthalene	0.0191	0.0040	mg/Kg wet	0.0200		95.5	40-130	1.04	25		†
n-Propylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	3.29	25		
Styrene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.66	25		
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.33	25		
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	2.41	25		
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.13	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Toluene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	3.77	25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	1.94	25		
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130	2.28	25		
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.27	25		
1,1,2-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	1.45	25		
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.24	25		
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		116	70-130	0.607	25		
1,2,3-Trichloropropane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	7.69	25		
1,2,4-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.85	25		
1,3,5-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	3.21	25		
Vinyl Acetate	0.204	0.010	mg/Kg wet	0.200		102	70-130	2.91	25	V-16	
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		95.9	40-130	1.47	25		†
m+p Xylene	0.0436	0.0040	mg/Kg wet	0.0400		109	70-130	2.72	25		
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	3.96	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0538*		mg/Kg wet	0.0500		108	70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0493*		mg/Kg wet	0.0500		98.6	70-130				

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
No TICs Found	0.0		µg/L							
Batch B076754 - SW-846 5035										
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							V-20
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							R-05
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							V-05
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05
Di-n-octylphthalate	ND	0.67	mg/Kg wet							V-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							R-05
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							R-05, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546												
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachlorophenol	ND	0.34	mg/Kg wet								R-05	
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*5.33*		mg/Kg wet	6.67		80.0		30-130				
Surrogate: Phenol-d6	*5.58*		mg/Kg wet	6.67		83.6		30-130				
Surrogate: Nitrobenzene-d5	*3.00*		mg/Kg wet	3.33		89.9		30-130				
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.43*		mg/Kg wet	6.67		111		30-130				
Surrogate: p-Terphenyl-d14	*4.05*		mg/Kg wet	3.33		122		30-130				
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Acenaphthene	1.66	0.17	mg/Kg wet	1.67		99.8		40-140		30		
Acenaphthylene	1.70	0.17	mg/Kg wet	1.67		102		40-140		30		
Anthracene	1.79	0.17	mg/Kg wet	1.67		107		40-140		30		
Benzo(a)anthracene	1.91	0.17	mg/Kg wet	1.67		115		40-140		30		
Benzo(a)pyrene	1.86	0.17	mg/Kg wet	1.67		112		40-140		30		
Benzo(b)fluoranthene	1.60	0.17	mg/Kg wet	1.67		95.8		40-140		30	V-05	
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.67		98.2		40-140		30	V-06	
Benzo(k)fluoranthene	1.68	0.17	mg/Kg wet	1.67		101		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	1.63	0.34	mg/Kg wet	1.67		97.5		40-140		30		
Bis(2-chloroethyl)ether	1.56	0.34	mg/Kg wet	1.67		93.6		40-140		30		
Bis(2-chloroisopropyl)ether	1.27	0.34	mg/Kg wet	1.67		76.4		40-140		30		
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.67		98.2		40-140		30		
4-Bromophenylphenylether	1.98	0.34	mg/Kg wet	1.67		119		40-140		30		
Butylbenzylphthalate	1.91	0.34	mg/Kg wet	1.67		115		40-140		30		
4-Chloroaniline	0.842	0.66	mg/Kg wet	1.67		50.5		10-140		30		†
4-Chloro-3-methylphenol	1.66	0.66	mg/Kg wet	1.67		99.8		30-130		30		
2-Chloronaphthalene	1.68	0.34	mg/Kg wet	1.67		101		40-140		30	R-05	
2-Chlorophenol	1.47	0.34	mg/Kg wet	1.67		88.2		30-130		30		
4-Chlorophenylphenylether	1.52	0.34	mg/Kg wet	1.67		91.2		40-140		30		
Chrysene	1.83	0.17	mg/Kg wet	1.67		110		40-140		30		
Dibenz(a,h)anthracene	1.78	0.17	mg/Kg wet	1.67		107		40-140		30		
Dibenzofuran	1.61	0.34	mg/Kg wet	1.67		96.5		40-140		30		
Di-n-butylphthalate	1.94	0.34	mg/Kg wet	1.67		116		40-140		30	V-05	
1,2-Dichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2		40-140		30		
1,3-Dichlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.7		40-140		30		
1,4-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.9		40-140		30		
3,3-Dichlorobenzidine	1.54	0.17	mg/Kg wet	1.67		92.3		20-140		50		†
2,4-Dichlorophenol	1.72	0.34	mg/Kg wet	1.67		103		30-130		30		
Diethylphthalate	1.77	0.34	mg/Kg wet	1.67		106		40-140		30		
2,4-Dimethylphenol	1.75	0.34	mg/Kg wet	1.67		105		30-130		30		
Dimethylphthalate	1.78	0.34	mg/Kg wet	1.67		107		40-140		30		
4,6-Dinitro-2-methylphenol	2.02	0.34	mg/Kg wet	1.67		121		30-130		30		
2,4-Dinitrophenol	1.60	0.66	mg/Kg wet	1.67		96.3		30-130		30	R-05	
Di-n-octylphthalate	1.60	0.67	mg/Kg wet	1.67		96.2		40-140		30	V-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.88	0.34	mg/Kg wet	1.67		113		40-140		30	R-05	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546												
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Fluoranthene	2.08	0.17	mg/Kg wet	1.67		125		40-140		30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.2		40-140		30		
Hexachlorobenzene	2.02	0.34	mg/Kg wet	1.67		121		40-140		30		
Hexachlorobutadiene	1.51	0.34	mg/Kg wet	1.67		90.5		40-140		30		
Hexachlorocyclopentadiene	0.767	0.34	mg/Kg wet	1.67		46.0		40-140		30	R-05, V-05	
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		74.9		40-140		30		
Indeno(1,2,3-cd)pyrene	1.74	0.17	mg/Kg wet	1.67		105		40-140		30		
Isophorone	1.64	0.34	mg/Kg wet	1.67		98.5		40-140		30		
1-Methylnaphthalene	1.49	0.17	mg/Kg wet	1.67		89.7		40-140		30		
2-Methylnaphthalene	1.41	0.17	mg/Kg wet	1.67		84.7		40-140		30		
2-Methylphenol	1.54	0.34	mg/Kg wet	1.67		92.2		30-130		30		
3/4-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.2		30-130		30		
Naphthalene	1.50	0.17	mg/Kg wet	1.67		89.8		40-140		30		
Nitrobenzene	1.50	0.34	mg/Kg wet	1.67		89.8		40-140		30		
2-Nitrophenol	1.81	0.34	mg/Kg wet	1.67		108		30-130		30		
4-Nitrophenol	1.19	0.66	mg/Kg wet	1.67		71.7		30-130		50	V-05	
N-Nitrosodiphenylamine	2.27	0.34	mg/Kg wet	1.67		136		40-140		30		
N-Nitrosodi-n-propylamine	1.22	0.34	mg/Kg wet	1.67		73.5		40-140		30		
Pentachlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7		30-130		30	R-05	
Phenanthrene	1.89	0.17	mg/Kg wet	1.67		114		40-140		30		
Phenol	1.45	0.34	mg/Kg wet	1.67		86.9		30-130		30		
Pyrene	1.87	0.17	mg/Kg wet	1.67		112		40-140		30		
1,2,4-Trichlorobenzene	1.59	0.34	mg/Kg wet	1.67		95.2		40-140		30		
2,4,6-Trichlorophenol	1.82	0.34	mg/Kg wet	1.67		109		30-130		30		
Surrogate: 2-Fluorophenol	*5.71*		mg/Kg wet	6.67		85.7		30-130				
Surrogate: Phenol-d6	*5.50*		mg/Kg wet	6.67		82.4		30-130				
Surrogate: Nitrobenzene-d5	*3.10*		mg/Kg wet	3.33		92.9		30-130				
Surrogate: 2-Fluorobiphenyl	*3.04*		mg/Kg wet	3.33		91.3		30-130				
Surrogate: 2,4,6-Tribromophenol	*8.87*		mg/Kg wet	6.67		**133**	*	30-130			S-07	
Surrogate: p-Terphenyl-d14	*3.92*		mg/Kg wet	3.33		118		30-130				
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Acenaphthene	1.35	0.17	mg/Kg wet	1.67		80.7		40-140	21.2	30		
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.6		40-140	23.4	30		
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.1		40-140	23.0	30		
Benzo(a)anthracene	1.51	0.17	mg/Kg wet	1.67		90.7		40-140	23.5	30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.2		40-140	23.4	30		
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1		40-140	21.7	30	V-05	
Benzo(g,h,i)perylene	1.59	0.17	mg/Kg wet	1.67		95.4		40-140	2.87	30	V-06	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8		40-140	24.6	30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.29	0.34	mg/Kg wet	1.67		77.4		40-140	23.0	30		
Bis(2-chloroethyl)ether	1.17	0.34	mg/Kg wet	1.67		70.3		40-140	28.4	30		
Bis(2-chloroisopropyl)ether	0.995	0.34	mg/Kg wet	1.67		59.7		40-140	24.5	30		
Bis(2-Ethylhexyl)phthalate	1.33	0.34	mg/Kg wet	1.67		80.0		40-140	20.4	30		
4-Bromophenylphenylether	1.56	0.34	mg/Kg wet	1.67		93.7		40-140	23.7	30		
Butylbenzylphthalate	1.53	0.34	mg/Kg wet	1.67		91.7		40-140	22.4	30		
4-Chloroaniline	0.663	0.66	mg/Kg wet	1.67		39.8		10-140	23.8	30		†
4-Chloro-3-methylphenol	1.35	0.66	mg/Kg wet	1.67		80.9		30-130	20.8	30		
2-Chloronaphthalene	1.24	0.34	mg/Kg wet	1.67		74.3		40-140	**30.2**	* 30	R-05	
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.2		30-130	25.5	30		
4-Chlorophenylphenylether	1.25	0.34	mg/Kg wet	1.67		74.9		40-140	19.7	30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076726 - SW-846 3546													
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13									
Chrysene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	21.3		30		
Dibenz(a,h)anthracene	1.59	0.17	mg/Kg wet	1.67		95.5		40-140	11.2		30		
Dibenzofuran	1.30	0.34	mg/Kg wet	1.67		78.2		40-140	20.9		30		
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		93.1		40-140	22.1		30	V-05	
1,2-Dichlorobenzene	0.994	0.34	mg/Kg wet	1.67		59.6		40-140	25.6		30		
1,3-Dichlorobenzene	0.970	0.34	mg/Kg wet	1.67		58.2		40-140	27.4		30		
1,4-Dichlorobenzene	0.966	0.34	mg/Kg wet	1.67		57.9		40-140	26.8		30		
3,3-Dichlorobenzidine	1.20	0.17	mg/Kg wet	1.67		72.2		20-140	24.5		50		† ‡
2,4-Dichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.6		30-130	23.3		30		
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		83.7		40-140	23.5		30		
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.5		30-130	25.4		30		
Dimethylphthalate	1.42	0.34	mg/Kg wet	1.67		85.1		40-140	22.5		30		
4,6-Dinitro-2-methylphenol	1.58	0.34	mg/Kg wet	1.67		95.0		30-130	24.0		30		
2,4-Dinitrophenol	1.04	0.66	mg/Kg wet	1.67		62.5		30-130	**42.6**	*	30	R-05	
Di-n-octylphthalate	1.25	0.67	mg/Kg wet	1.67		75.1		40-140	24.7		30	V-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.32	0.34	mg/Kg wet	1.67		79.3		40-140	**35.1**	*	30	R-05	
Fluoranthene	1.65	0.17	mg/Kg wet	1.67		99.1		40-140	22.9		30		
Fluorene	1.25	0.17	mg/Kg wet	1.67		75.1		40-140	18.2		30		
Hexachlorobenzene	1.60	0.34	mg/Kg wet	1.67		96.2		40-140	23.0		30		
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		70.5		40-140	24.9		30		
Hexachlorocyclopentadiene	0.566	0.34	mg/Kg wet	1.67		**33.9**	*	40-140	**30.2**	*	30	L-07A, V-05	
Hexachloroethane	0.957	0.34	mg/Kg wet	1.67		57.4		40-140	26.3		30		
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.2		40-140	9.49		30		
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.0		40-140	24.5		30		
1-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8		40-140	22.1		30		
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140	22.0		30		
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8		30-130	24.9		30		
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.7		30-130	24.9		30		
Naphthalene	1.17	0.17	mg/Kg wet	1.67		70.5		40-140	24.1		30		
Nitrobenzene	1.17	0.34	mg/Kg wet	1.67		70.5		40-140	24.1		30		
2-Nitrophenol	1.42	0.34	mg/Kg wet	1.67		85.3		30-130	23.9		30		
4-Nitrophenol	0.994	0.66	mg/Kg wet	1.67		59.7		30-130	18.3		50	V-05	‡
N-Nitrosodiphenylamine	1.86	0.34	mg/Kg wet	1.67		112		40-140	19.7		30		
N-Nitrosodi-n-propylamine	0.972	0.34	mg/Kg wet	1.67		58.3		40-140	23.1		30		
Pentachlorophenol	0.969	0.34	mg/Kg wet	1.67		58.1		30-130	**44.8**	*	30	R-05	
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.7		40-140	20.2		30		
Phenol	1.14	0.34	mg/Kg wet	1.67		68.6		30-130	23.4		30		
Pyrene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	23.5		30		
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.7		40-140	25.5		30		
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.7		30-130	24.3		30		
Surrogate: 2-Fluorophenol	*4.40*		mg/Kg wet	6.67		66.0		30-130					
Surrogate: Phenol-d6	*4.36*		mg/Kg wet	6.67		65.4		30-130					
Surrogate: Nitrobenzene-d5	*2.40*		mg/Kg wet	3.33		72.1		30-130					
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.2		30-130					
Surrogate: 2,4,6-Tribromophenol	*6.73*		mg/Kg wet	6.67		101		30-130					
Surrogate: p-Terphenyl-d14	*3.05*		mg/Kg wet	3.33		91.6		30-130					

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076523 - SW-846 3546											
Blank (B076523-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13							
C9-C18 Aliphatics	ND	10	mg/Kg wet								L-04
C19-C36 Aliphatics	ND	10	mg/Kg wet								
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								
Phenanthrene	ND	0.10	mg/Kg wet								
Pyrene	ND	0.10	mg/Kg wet								
Surrogate: Chlorooctadecane (COD)	*3.48*		mg/Kg wet	4.99		69.7		40-140			
Surrogate: o-Terphenyl (OTP)	*4.11*		mg/Kg wet	5.00		82.2		40-140			
Surrogate: 2-Bromonaphthalene	*4.75*		mg/Kg wet	5.00		95.0		40-140			
Surrogate: 2-Fluorobiphenyl	*5.14*		mg/Kg wet	5.00		103		40-140			
LCS (B076523-BS1)				Prepared: 07/11/13 Analyzed: 07/17/13							
Acenaphthene	3.23	0.10	mg/Kg wet	5.00		64.6		40-140			
Acenaphthylene	2.99	0.10	mg/Kg wet	5.00		59.7		40-140			
Anthracene	3.58	0.10	mg/Kg wet	5.00		71.5		40-140			
Benzo(a)anthracene	3.70	0.10	mg/Kg wet	5.00		74.0		40-140			
Benzo(a)pyrene	3.54	0.10	mg/Kg wet	5.00		70.7		40-140			
Benzo(b)fluoranthene	3.68	0.10	mg/Kg wet	5.00		73.5		40-140			
Benzo(g,h,i)perylene	3.72	0.10	mg/Kg wet	5.00		74.4		40-140			
Benzo(k)fluoranthene	3.64	0.10	mg/Kg wet	5.00		72.9		40-140			
Chrysene	3.49	0.10	mg/Kg wet	5.00		69.7		40-140			
Dibenz(a,h)anthracene	3.75	0.10	mg/Kg wet	5.00		75.1		40-140			
Fluoranthene	3.62	0.10	mg/Kg wet	5.00		72.4		40-140			
Fluorene	3.33	0.10	mg/Kg wet	5.00		66.5		40-140			
Indeno(1,2,3-cd)pyrene	3.80	0.10	mg/Kg wet	5.00		76.1		40-140			
2-Methylnaphthalene	2.73	0.10	mg/Kg wet	5.00		54.7		40-140			
Naphthalene	2.37	0.10	mg/Kg wet	5.00		47.4		40-140			
Phenanthrene	3.54	0.10	mg/Kg wet	5.00		70.9		40-140			
Pyrene	3.53	0.10	mg/Kg wet	5.00		70.6		40-140			
n-Decane	1.87	0.10	mg/Kg wet	5.00		**37.5**	*	40-140			L-04
n-Docosane	4.04	0.10	mg/Kg wet	5.00		80.9		40-140			
n-Dodecane	2.71	0.10	mg/Kg wet	5.00		54.2		40-140			
n-Eicosane	4.04	0.10	mg/Kg wet	5.00		80.8		40-140			
n-Hexacosane	4.11	0.10	mg/Kg wet	5.00		82.2		40-140			
n-Hexadecane	3.97	0.10	mg/Kg wet	5.00		79.4		40-140			
n-Hexatriacontane	5.60	0.10	mg/Kg wet	5.00		112		40-140			
n-Nonadecane	4.03	0.10	mg/Kg wet	5.00		80.5		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076523 - SW-846 3546											
LCS (B076523-BS1)				Prepared: 07/11/13 Analyzed: 07/17/13							
n-Nonane	1.17	0.10	mg/Kg wet	5.00		**23.4**	*	30-140			L-04
n-Octacosane	3.98	0.10	mg/Kg wet	5.00		79.7		40-140			
n-Octadecane	4.06	0.10	mg/Kg wet	5.00		81.3		40-140			
n-Tetracosane	4.17	0.10	mg/Kg wet	5.00		83.4		40-140			
n-Tetradecane	3.45	0.10	mg/Kg wet	5.00		69.0		40-140			
n-Triacontane	4.03	0.10	mg/Kg wet	5.00		80.7		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.82*		mg/Kg wet	4.99		76.5		40-140			
Surrogate: o-Terphenyl (OTP)	*3.41*		mg/Kg wet	5.00		68.3		40-140			
Surrogate: 2-Bromonaphthalene	*3.52*		mg/Kg wet	5.00		70.3		40-140			
Surrogate: 2-Fluorobiphenyl	*3.84*		mg/Kg wet	5.00		76.9		40-140			
LCS Dup (B076523-BSD1)				Prepared: 07/11/13 Analyzed: 07/17/13							
Acenaphthene	3.85	0.10	mg/Kg wet	5.00		76.9		40-140	17.5	25	
Acenaphthylene	3.55	0.10	mg/Kg wet	5.00		71.0		40-140	17.2	25	
Anthracene	4.25	0.10	mg/Kg wet	5.00		85.0		40-140	17.2	25	
Benzo(a)anthracene	4.31	0.10	mg/Kg wet	5.00		86.2		40-140	15.2	25	
Benzo(a)pyrene	4.09	0.10	mg/Kg wet	5.00		81.8		40-140	14.5	25	
Benzo(b)fluoranthene	4.24	0.10	mg/Kg wet	5.00		84.9		40-140	14.3	25	
Benzo(g,h,i)perylene	4.24	0.10	mg/Kg wet	5.00		84.7		40-140	13.0	25	
Benzo(k)fluoranthene	4.22	0.10	mg/Kg wet	5.00		84.3		40-140	14.5	25	
Chrysene	4.08	0.10	mg/Kg wet	5.00		81.6		40-140	15.6	25	
Dibenz(a,h)anthracene	4.35	0.10	mg/Kg wet	5.00		87.1		40-140	14.8	25	
Fluoranthene	4.22	0.10	mg/Kg wet	5.00		84.4		40-140	15.4	25	
Fluorene	3.97	0.10	mg/Kg wet	5.00		79.3		40-140	17.5	25	
Indeno(1,2,3-cd)pyrene	4.38	0.10	mg/Kg wet	5.00		87.7		40-140	14.1	25	
2-Methylnaphthalene	3.34	0.10	mg/Kg wet	5.00		66.7		40-140	19.8	25	
Naphthalene	2.82	0.10	mg/Kg wet	5.00		56.5		40-140	17.4	25	
Phenanthrene	4.18	0.10	mg/Kg wet	5.00		83.6		40-140	16.5	25	
Pyrene	4.11	0.10	mg/Kg wet	5.00		82.3		40-140	15.3	25	
n-Decane	1.78	0.10	mg/Kg wet	5.00		**35.6**	*	40-140	4.94	25	L-04
n-Docosane	3.62	0.10	mg/Kg wet	5.00		72.3		40-140	11.2	25	
n-Dodecane	2.55	0.10	mg/Kg wet	5.00		50.9		40-140	6.24	25	
n-Eicosane	3.58	0.10	mg/Kg wet	5.00		71.5		40-140	12.2	25	
n-Hexacosane	3.80	0.10	mg/Kg wet	5.00		76.0		40-140	7.89	25	
n-Hexadecane	3.53	0.10	mg/Kg wet	5.00		70.6		40-140	11.6	25	
n-Hexatriacontane	4.97	0.10	mg/Kg wet	5.00		99.4		40-140	11.9	25	
n-Nonadecane	3.56	0.10	mg/Kg wet	5.00		71.3		40-140	12.2	25	
n-Nonane	1.10	0.10	mg/Kg wet	5.00		**22.1**	*	30-140	5.83	25	L-04
n-Octacosane	3.66	0.10	mg/Kg wet	5.00		73.2		40-140	8.52	25	
n-Octadecane	3.60	0.10	mg/Kg wet	5.00		72.0		40-140	12.2	25	
n-Tetracosane	3.83	0.10	mg/Kg wet	5.00		76.6		40-140	8.49	25	
n-Tetradecane	3.15	0.10	mg/Kg wet	5.00		62.9		40-140	9.15	25	
n-Triacontane	3.68	0.10	mg/Kg wet	5.00		73.6		40-140	9.24	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.29*		mg/Kg wet	4.99		65.9		40-140			
Surrogate: o-Terphenyl (OTP)	*3.87*		mg/Kg wet	5.00		77.4		40-140			
Surrogate: 2-Bromonaphthalene	*4.07*		mg/Kg wet	5.00		81.3		40-140			
Surrogate: 2-Fluorobiphenyl	*4.54*		mg/Kg wet	5.00		90.8		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076746 - MA VPH										
Blank (B076746-BLK1)				Prepared & Analyzed: 07/15/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*2.98*		mg/Kg wet	3.33		89.4	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.85*		mg/Kg wet	3.33		85.5	70-130			
LCS (B076746-BS1)				Prepared & Analyzed: 07/15/13						
Benzene	4.67	0.050	mg/Kg wet	5.00		93.5	70-130			
Butylcyclohexane	3.96	0.050	mg/Kg wet	5.00		79.3	70-130			
Decane	4.24	0.050	mg/Kg wet	5.00		84.7	70-130			
Ethylbenzene	5.06	0.050	mg/Kg wet	5.00		101	70-130			
Methyl tert-Butyl Ether (MTBE)	4.92	0.050	mg/Kg wet	5.00		98.4	70-130			
2-Methylpentane	3.81	0.050	mg/Kg wet	5.00		76.3	70-130			
Naphthalene	5.36	0.25	mg/Kg wet	5.00		107	70-130			
Nonane	3.69	0.050	mg/Kg wet	5.00		73.8	30-130			
Pentane	3.65	0.050	mg/Kg wet	5.00		73.0	70-130			
Toluene	4.90	0.050	mg/Kg wet	5.00		98.0	70-130			
1,2,4-Trimethylbenzene	4.80	0.050	mg/Kg wet	5.00		96.1	70-130			
2,2,4-Trimethylpentane	3.85	0.050	mg/Kg wet	5.00		76.9	70-130			
m+p Xylene	10.3	0.10	mg/Kg wet	10.0		103	70-130			
o-Xylene	5.06	0.050	mg/Kg wet	5.00		101	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*3.06*		mg/Kg wet	3.33		91.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.91*		mg/Kg wet	3.33		87.2	70-130			
LCS Dup (B076746-BSD1)				Prepared & Analyzed: 07/15/13						
Benzene	4.59	0.050	mg/Kg wet	5.00		91.8	70-130	1.75	25	
Butylcyclohexane	4.05	0.050	mg/Kg wet	5.00		81.0	70-130	2.13	25	
Decane	4.43	0.050	mg/Kg wet	5.00		88.7	70-130	4.57	25	
Ethylbenzene	4.98	0.050	mg/Kg wet	5.00		99.5	70-130	1.71	25	
Methyl tert-Butyl Ether (MTBE)	4.90	0.050	mg/Kg wet	5.00		98.1	70-130	0.279	25	
2-Methylpentane	3.68	0.050	mg/Kg wet	5.00		73.6	70-130	3.59	25	
Naphthalene	5.58	0.25	mg/Kg wet	5.00		112	70-130	3.96	25	
Nonane	3.96	0.050	mg/Kg wet	5.00		79.3	30-130	7.19	25	
Pentane	3.53	0.050	mg/Kg wet	5.00		70.6	70-130	3.26	25	
Toluene	4.83	0.050	mg/Kg wet	5.00		96.5	70-130	1.54	25	
1,2,4-Trimethylbenzene	4.73	0.050	mg/Kg wet	5.00		94.5	70-130	1.60	25	
2,2,4-Trimethylpentane	3.80	0.050	mg/Kg wet	5.00		75.9	70-130	1.28	25	
m+p Xylene	10.1	0.10	mg/Kg wet	10.0		101	70-130	1.54	25	
o-Xylene	5.00	0.050	mg/Kg wet	5.00		100	70-130	1.20	25	
Surrogate: 2,5-Dibromotoluene (FID)	*3.27*		mg/Kg wet	3.33		98.2	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*3.16*		mg/Kg wet	3.33		94.9	70-130			

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

ANALYST

SLD	Stacy L. Dybas
SCS	Scott C. Sadowski
RH	Robert H. Witherell
OJS	Olga J. Szymura
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
LBD	Lauren B. Damboragian
ESH	Erin S. Herlihy
EEH	Eric E. Hess
CMR	Catherine M. Rouleau
CMF	Chris M. Foley
CEC	Christian E. Collins
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8260B in Water	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NC
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NH,NY,NC,ME
n-Butylbenzene	NY,NC,ME
sec-Butylbenzene	NY,NC,ME
tert-Butylbenzene	NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	NY,NC,ME
4-Chlorotoluene	NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NH,NY,NC,ME
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	CT,NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	NY,NC,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,NC,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,NC,ME
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC,ME
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	CT,NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NH,NY,NC,ME
1,2,4-Trichlorobenzene	CT,NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	NY,NC,ME
1,3,5-Trimethylbenzene	NY,NC,ME
Vinyl Acetate	NH,NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

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

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0331

CHAIN OF CUSTODY

con-test® ANALYTICAL LABORATORY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City State Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Wash Water AST
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2So4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)					Comments
01	Trip Blank	-	-	Lab	S	3	2	1				x								
02	WWA-1	7/9/13	1610	BM	S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms
- [X] Other (Specify): Refer to Work Order

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BM	7/9/13 1830	1 Fed-X	2		2
3	7/10/13 0931	3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

07-10-13 13:25 IN

FedEx

802540399110

Ship (P/U) date :
Tues 7/09/2013 5:55 pm
RAL US

Delivered
Signed for by: P BLAKE

Actual delivery :
Wed 7/10/2013 9:31 am
MA US

Travel History

Date/Time	Activity	Location
- 7/10/2013 - Wednesday		
9:31 am	Delivered	MA
8:02 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:18 am	At local FedEx facility	WINDSOR LOCKS, CT
5:59 am	At destination sort facility	EAST GRANBY, CT
4:23 am	Departed FedEx location	INDIANAPOLIS, IN
- 7/09/2013 - Tuesday		
11:51 pm	Arrived at FedEx location	INDIANAPOLIS, IN
8:48 pm	Left FedEx origin facility	RALEIGH, NC
5:55 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

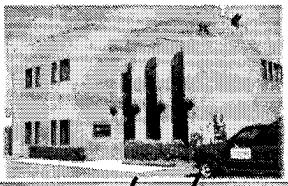
Local Scan Time

Shipment Facts

Tracking number	802540399110	**Service**	FedEx Priority Overnight
Weight	18 lbs	**Dimensions**	13x12x12 in.
Delivered To	Receptionist/Front Desk	**Total pieces**	1
Total shipment weight	18 lbs / 8.2 kgs	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** CEC **DATE:** 7/10/13

1) Was the chain(s) of custody relinquished and signed? **Yes** **No** **No CoC Included**

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

If not, explain:

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

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

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

Temperature °C by Temp blank 4.0 Temperature °C by Temp gun _____

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

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

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

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

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

10) Was the PC notified of any discrepancies with the CoC vs the samples: **Yes** **No** **N/A**

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz amber/clear jar	1
500 mL Amber			4 oz amber/clear jar	1
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below			PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments:

40 mL vials: # HCl 3 # Methanol 2

Bisulfate _____ # DI Water 2

Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-10-13 13:20 IN

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

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Glue ASTs, Lenoir, NC
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0334

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0334

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

PROJECT LOCATION: Glue ASTs, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
GAST-1	13G0334-01	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
GAST-2	13G0334-02	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
Dup-3	13G0334-03	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

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

CASE NARRATIVE SUMMARY

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

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076730-BS1	B076730-BSD1
C9-C18	59%	59%
C19-C36	84%	80%
C11-C22	80%	72%

VPH	B076454-BS1	B076454-BSD1
C9-C10	99%	99%

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

MADEP-EPH-04-1.1

Qualifications:

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

Analyte & Samples(s) Qualified:

C19-C36 Aliphatics, C9-C18 Aliphatics, n-Decane, n-Hexatriacontane, n-Nonane

13G0334-01[GAST-1], 13G0334-02[GAST-2], 13G0334-03[Dup-3], B076730-BLK1, B076730-BS1, B076730-BSD1

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

Analyte & Samples(s) Qualified:

n-Nonane

B076730-MS1, B076730-MSD1

SW-846 8260B

Qualifications:

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

Analyte & Samples(s) Qualified:

Chloromethane

13G0334-01[GAST-1], 13G0334-02[GAST-2], 13G0334-03[Dup-3], B076569-BLK1, B076569-BS1, B076569-BSD1, B076642-BLK1, B076642-BS1, B076642-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076569-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane

13G0334-02[GAST-2], 13G0334-03[Dup-3], B076569-BLK1, B076569-BS1, B076569-BSD1

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

Analyte & Samples(s) Qualified:

Chloromethane

13G0334-02[GAST-2], 13G0334-03[Dup-3], B076569-BLK1, B076569-BS1, B076569-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA)

13G0334-01[GAST-1], 13G0334-02[GAST-2], 13G0334-03[Dup-3], B076569-BLK1, B076569-BS1, B076569-BSD1, B076642-BLK1, B076642-BS1, B076642-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane, Chloromethane

B076569-BS1, B076569-BSD1, B076642-BS1, B076642-BSD1

SW-846 8270D

con-test® ANALYTICAL LABORATORY

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

Qualifications:

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

Analyte & Samples(s) Qualified:

Benzoic Acid

13G0334-01[GAST-1], 13G0334-02[GAST-2], 13G0334-03[Dup-3], B076726-BLK1, B076726-BS1, B076726-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

B076726-BSD1

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

Analyte & Samples(s) Qualified:

1,2-Diphenylhydrazine (as Azobenzene), 2,4-Dinitrophenol, 2-Chloronaphthalene, Hexachlorocyclopentadiene, Pentachlorophenol

13G0334-01[GAST-1], 13G0334-02[GAST-2], 13G0334-03[Dup-3], B076726-BLK1, B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

B076726-BS1

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

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzoic Acid, Di-n-butylphthalate, Di-n-octylphthalate, Hexachlorocyclopentadiene, N-Nitrosodi-n-propylamine

13G0334-01[GAST-1], 13G0334-02[GAST-2], 13G0334-03[Dup-3], B076726-BLK1, B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

B076726-BS1, B076726-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0334-02[GAST-2]

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, Benzo(g,h,i)perylene

13G0334-01[GAST-1], 13G0334-03[Dup-3], B076726-BLK1

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

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

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

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1 | Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.080	0.019	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Benzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Bromobenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Bromochloromethane	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Bromodichloromethane	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Bromoform	ND	0.0016	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Bromomethane	ND	0.0080	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
2-Butanone (MEK)	ND	0.032	0.014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
tert-Butyl Alcohol (TBA)	ND	0.032	0.017	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/12/13 11:33	MFF
n-Butylbenzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
sec-Butylbenzene	ND	0.0016	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
tert-Butylbenzene	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.00080	0.00048	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Carbon Tetrachloride	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Chlorobenzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Chlorodibromomethane	ND	0.0032	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Chloroethane	ND	0.016	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Chloroform	ND	0.0032	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Chloromethane	ND	0.0080	0.00072	mg/Kg dry	1	L-04	SW-846 8260B	7/11/13	7/12/13 11:33	MFF
2-Chlorotoluene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
4-Chlorotoluene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,2-Dibromoethane (EDB)	ND	0.00080	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,2-Dichlorobenzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,3-Dichlorobenzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,4-Dichlorobenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.016	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,1-Dichloroethane	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,2-Dichloroethane	ND	0.0016	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,1-Dichloroethylene	ND	0.0032	0.00088	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
cis-1,2-Dichloroethylene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
trans-1,2-Dichloroethylene	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,2-Dichloropropane	ND	0.0016	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,3-Dichloropropane	ND	0.00080	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
2,2-Dichloropropane	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,1-Dichloropropene	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
cis-1,3-Dichloropropene	ND	0.00080	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
trans-1,3-Dichloropropene	ND	0.00080	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Diisopropyl Ether (DIPE)	ND	0.00080	0.00048	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Ethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
2-Hexanone (MBK)	ND	0.032	0.0087	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Isopropylbenzene (Cumene)	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0032	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1 | Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.016	0.0057	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.032	0.0061	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Naphthalene	0.0029	0.0032	0.00056	mg/Kg dry	1	J	SW-846 8260B	7/11/13	7/12/13 11:33	MFF
n-Propylbenzene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Styrene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,1,1,2-Tetrachloroethane	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,1,2,2-Tetrachloroethane	ND	0.00080	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Tetrachloroethylene	ND	0.0016	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Toluene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,2,3-Trichlorobenzene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,2,4-Trichlorobenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,1,1-Trichloroethane	ND	0.0016	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,1,2-Trichloroethane	ND	0.0016	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Trichloroethylene	ND	0.0016	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0080	0.00088	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,2,3-Trichloropropane	ND	0.0016	0.00088	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,2,4-Trimethylbenzene	ND	0.0016	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
1,3,5-Trimethylbenzene	ND	0.0016	0.00048	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Vinyl Acetate	ND	0.0080	0.0054	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
Vinyl Chloride	ND	0.0080	0.00088	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
m+p Xylene	ND	0.0032	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF
o-Xylene	ND	0.0016	0.00056	mg/Kg dry	1		SW-846 8260B	7/11/13	7/12/13 11:33	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	91.3	70-130		7/12/13 11:33
Toluene-d8	99.6	70-130		7/12/13 11:33
4-Bromofluorobenzene	98.6	70-130		7/12/13 11:33

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1
Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/12/13 11:33	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1 | Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Benzo(a)anthracene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Benzo(a)pyrene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
4-Chloroaniline	ND	0.81	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
4-Chloro-3-methylphenol	ND	0.81	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Chrysene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Dibenzofuran	ND	0.42	0.097	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
1,2-Dichlorobenzene	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
1,3-Dichlorobenzene	ND	0.42	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
1,4-Dichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2,4-Dinitrophenol	ND	0.81	0.41	mg/Kg dry	1	R-05, V-20	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Di-n-octylphthalate	ND	0.82	0.57	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Hexachlorocyclopentadiene	ND	0.42	0.27	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1 | Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Naphthalene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
4-Nitrophenol	ND	0.81	0.73	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
Pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
1,2,4-Trichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:06	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	63.5	30-130		7/22/13 22:06
Phenol-d6	63.2	30-130		7/22/13 22:06
Nitrobenzene-d5	69.4	30-130		7/22/13 22:06
2-Fluorobiphenyl	67.8	30-130		7/22/13 22:06
2,4,6-Tribromophenol	84.8	30-130		7/22/13 22:06
p-Terphenyl-d14	87.8	30-130		7/22/13 22:06

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1
Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.45	mg/Kg dry	364215	14.521	1	000301-02-0	SW-846 8270D	7/15/13	7/22/13 22:06	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1 | Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/15/13 17:26	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	75.8	40-140		7/15/13 17:26
o-Terphenyl (OTP)	79.8	40-140		7/15/13 17:26
2-Bromonaphthalene	82.5	40-140		7/15/13 17:26
2-Fluorobiphenyl	89.7	40-140		7/15/13 17:26

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1 | Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.08

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
Benzene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
Ethylbenzene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
Naphthalene	ND	0.35	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
Toluene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH
o-Xylene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	101	70-130		7/12/13 1:57
2,5-Dibromotoluene (PID)	98.4	70-130		7/12/13 1:57

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-1
Sampled: 7/9/2013 12:10

Sample ID: 13G0334-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2 | Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Benzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Bromobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 16:55	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	0.022	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 16:55	MFF
n-Butylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
sec-Butylbenzene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
tert-Butylbenzene	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Carbon Tetrachloride	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Chlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Chlorodibromomethane	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Chloroform	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Chloromethane	ND	0.011	0.00097	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/11/13	7/11/13 16:55	MFF
2-Chlorotoluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
4-Chlorotoluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,1-Dichloroethane	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,3-Dichloropropane	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
2,2-Dichloropropane	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,1-Dichloropropene	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Ethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
2-Hexanone (MBK)	ND	0.043	0.012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00097	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2 | Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.021	0.0076	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.043	0.0082	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Naphthalene	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
n-Propylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00097	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Toluene	0.0011	0.0021	0.00086	mg/Kg dry	1	J	SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Trichloroethylene	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,2,3-Trichloropropane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Vinyl Acetate	ND	0.011	0.0072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 16:55	MFF
o-Xylene	0.0018	0.0021	0.00075	mg/Kg dry	1	J	SW-846 8260B	7/11/13	7/11/13 16:55	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	88.0	70-130		7/11/13 16:55
Toluene-d8	96.9	70-130		7/11/13 16:55
4-Bromofluorobenzene	94.8	70-130		7/11/13 16:55

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2
Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/11/13 16:55	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2 | Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
1,2-Dichlorobenzene	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
1,3-Dichlorobenzene	ND	0.41	0.096	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
1,4-Dichlorobenzene	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1	R-05, V-19	SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2 | Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 20:02	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
1,2,4-Trichlorobenzene	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	58.0	30-130		7/22/13 20:02
Phenol-d6	61.8	30-130		7/22/13 20:02
Nitrobenzene-d5	58.2	30-130		7/22/13 20:02
2-Fluorobiphenyl	70.0	30-130		7/22/13 20:02
2,4,6-Tribromophenol	66.0	30-130		7/22/13 20:02
p-Terphenyl-d14	82.1	30-130		7/22/13 20:02

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2
Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/15/13	7/22/13 20:02	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2 | Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
C19-C36 Aliphatics	21	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:19	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	74.9	40-140		7/16/13 21:19
o-Terphenyl (OTP)	75.6	40-140		7/16/13 21:19
2-Bromonaphthalene	84.6	40-140		7/16/13 21:19
2-Fluorobiphenyl	89.2	40-140		7/16/13 21:19

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2 | Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.04

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
Benzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
Ethylbenzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
Toluene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH
o-Xylene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 2:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	103	70-130		7/12/13 2:32
2,5-Dibromotoluene (PID)	101	70-130		7/12/13 2:32

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: GAST-2
Sampled: 7/9/2013 12:20

Sample ID: 13G0334-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3 | Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Benzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Bromobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 17:24	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	0.022	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 17:24	MFF
n-Butylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
sec-Butylbenzene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
tert-Butylbenzene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Carbon Tetrachloride	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Chlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Chlorodibromomethane	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Chloroform	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Chloromethane	ND	0.011	0.00096	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/11/13	7/11/13 17:24	MFF
2-Chlorotoluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
4-Chlorotoluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,1-Dichloroethane	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,3-Dichloropropane	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
2,2-Dichloropropane	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,1-Dichloropropene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Ethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
2-Hexanone (MBK)	ND	0.043	0.012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3 | Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.021	0.0076	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.043	0.0081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Naphthalene	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
n-Propylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Toluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Trichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,2,3-Trichloropropane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Vinyl Acetate	ND	0.011	0.0072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF
o-Xylene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 17:24	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	95.4	70-130		7/11/13 17:24
Toluene-d8	102	70-130		7/11/13 17:24
4-Bromofluorobenzene	96.9	70-130		7/11/13 17:24

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3
Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.0069	mg/Kg dry	295599	2.766	1	000110-54-3	SW-846 8260C	7/11/13	7/11/13 17:24	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC Sample Description: Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3 Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Dibenzofuran	ND	0.41	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
1,2-Dichlorobenzene	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
1,3-Dichlorobenzene	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
1,4-Dichlorobenzene	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2,4-Dinitrophenol	ND	0.79	0.40	mg/Kg dry	1	V-20, R-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Di-n-octylphthalate	ND	0.80	0.55	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.19	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Hexachlorobenzene	ND	0.41	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3 | Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Naphthalene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
1,2,4-Trichlorobenzene	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	54.3	30-130		7/22/13 22:41
Phenol-d6	55.8	30-130		7/22/13 22:41
Nitrobenzene-d5	59.8	30-130		7/22/13 22:41
2-Fluorobiphenyl	60.2	30-130		7/22/13 22:41
2,4,6-Tribromophenol	72.5	30-130		7/22/13 22:41
p-Terphenyl-d14	78.8	30-130		7/22/13 22:41

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3
Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/15/13	7/22/13 22:41	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3 | Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 21:40	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.4	40-140		7/16/13 21:40
o-Terphenyl (OTP)	75.8	40-140		7/16/13 21:40
2-Bromonaphthalene	85.4	40-140		7/16/13 21:40
2-Fluorobiphenyl	90.3	40-140		7/16/13 21:40

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue ASTs, Lenoir, NC | Sample Description: | Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3 | Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.05

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
Benzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
Ethylbenzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
Toluene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH
o-Xylene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 3:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	105	70-130		7/12/13 3:08
2,5-Dibromotoluene (PID)	100	70-130		7/12/13 3:08

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

Project Location: Glue ASTs, Lenoir, NC
Sample Description:
Work Order: 13G0334

Date Received: 7/9/2013

Field Sample #: Dup-3
Sampled: 7/9/2013 15:30

Sample ID: 13G0334-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

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

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0334-01 [GAST-1]	B076730	20.0	2.00	07/15/13
13G0334-02 [GAST-2]	B076730	20.1	2.00	07/15/13
13G0334-03 [Dup-3]	B076730	20.1	2.00	07/15/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0334-01 [GAST-1]	B076454	16.2	18.2	07/11/13
13G0334-02 [GAST-2]	B076454	15.6	17.7	07/11/13
13G0334-03 [Dup-3]	B076454	15.7	17.8	07/11/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0334-01 [GAST-1]	B076932	07/17/13
13G0334-02 [GAST-2]	B076932	07/17/13
13G0334-03 [Dup-3]	B076932	07/17/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0334-02 [GAST-2]	B076569	5.58	10.0	07/11/13
13G0334-03 [Dup-3]	B076569	5.64	10.0	07/11/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0334-01 [GAST-1]	B076642	7.74	10.0	07/11/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0334-01 [GAST-1]	B076726	30.3	1.00	07/15/13
13G0334-02 [GAST-2]	B076726	30.0	1.00	07/15/13
13G0334-03 [Dup-3]	B076726	30.4	1.00	07/15/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04, V-05
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035												
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13								
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Acetate	ND	0.010	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0472*		mg/Kg wet	0.0500		94.4		70-130				
Surrogate: Toluene-d8	*0.0504*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		98.0		70-130				
LCS (B076569-BS1)				Prepared & Analyzed: 07/11/13								
Acetone	0.180	0.10	mg/Kg wet	0.200		89.8		70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0226	0.0010	mg/Kg wet	0.0200		113		70-130		25		
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5		70-130		25		
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130		25		
Bromochloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6		70-130		25		
Bromodichloromethane	0.0171	0.0020	mg/Kg wet	0.0200		85.4		70-130		25		
Bromoform	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130		25		
Bromomethane	0.0211	0.010	mg/Kg wet	0.0200		106		40-130		25	R-05, V-20	†
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.3		70-160		25		†
tert-Butyl Alcohol (TBA)	0.166	0.040	mg/Kg wet	0.200		83.1		40-130		25	V-16	†
n-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4		70-130		25		
sec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130		25		
tert-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0195	0.0010	mg/Kg wet	0.0200		97.3		70-130		25		
Carbon Tetrachloride	0.0184	0.0020	mg/Kg wet	0.0200		91.9		70-130		25		
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130		25		
Chlorodibromomethane	0.0186	0.0010	mg/Kg wet	0.0200		93.0		70-130		25		
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		110		70-130		25		
Chloroform	0.0177	0.0040	mg/Kg wet	0.0200		88.3		70-130		25		
Chloromethane	0.00978	0.010	mg/Kg wet	0.0200		**48.9**	*	70-130		25	J, L-04, V-05	
2-Chlorotoluene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130		25		
4-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,2-Dibromoethane (EDB)	0.0198	0.0010	mg/Kg wet	0.0200		99.0		70-130		25		
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130		25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0107	0.020	mg/Kg wet	0.0200		53.4		40-160		25	J	†
1,1-Dichloroethane	0.0163	0.0020	mg/Kg wet	0.0200		81.4		70-130		25		
1,2-Dichloroethane	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130		25		
1,1-Dichloroethylene	0.0195	0.0040	mg/Kg wet	0.0200		97.3		70-130		25		
cis-1,2-Dichloroethylene	0.0169	0.0020	mg/Kg wet	0.0200		84.6		70-130		25		
trans-1,2-Dichloroethylene	0.0164	0.0020	mg/Kg wet	0.0200		82.1		70-130		25		
1,2-Dichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.0		70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035											
LCS (B076569-BS1)				Prepared & Analyzed: 07/11/13							
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130		25		
2,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130		25		
1,1-Dichloropropene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130		25		
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.3	70-130		25		
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130		25		
Diisopropyl Ether (DIPE)	0.0189	0.0010	mg/Kg wet	0.0200		94.3	70-130		25		
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130		25		
2-Hexanone (MBK)	0.190	0.020	mg/Kg wet	0.200		95.1	70-160		25		†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.0200		96.3	70-130		25		
Methylene Chloride	0.0169	0.020	mg/Kg wet	0.0200		84.5	40-160		25	J	†
4-Methyl-2-pentanone (MIBK)	0.190	0.020	mg/Kg wet	0.200		94.8	70-160		25		†
Naphthalene	0.0179	0.0040	mg/Kg wet	0.0200		89.3	40-130		25		†
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Styrene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130		25		
1,1,1,2-Tetrachloroethane	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130		25		
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130		25		
Tetrachloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130		25		
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130		25		
1,2,4-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130		25		
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130		25		
1,1,2-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130		25		
Trichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0223	0.010	mg/Kg wet	0.0200		112	70-130		25		
1,2,3-Trichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130		25		
1,2,4-Trimethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130		25		
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130		25		
Vinyl Acetate	0.167	0.010	mg/Kg wet	0.200		83.4	70-130		25		
Vinyl Chloride	0.0149	0.010	mg/Kg wet	0.0200		74.4	40-130		25		†
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		99.9	70-130		25		
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0470*		mg/Kg wet	0.0500		93.9	70-130				
Surrogate: Toluene-d8	*0.0514*		mg/Kg wet	0.0500		103	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0507*		mg/Kg wet	0.0500		101	70-130				
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13							
Acetone	0.209	0.10	mg/Kg wet	0.200		104	70-160	15.0	25		†
tert-Amyl Methyl Ether (TAME)	0.0248	0.0010	mg/Kg wet	0.0200		124	70-130	9.36	25		
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	12.5	25		
Bromobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	6.96	25		
Bromochloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	9.85	25		
Bromodichloromethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	11.8	25		
Bromoform	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130	5.09	25		
Bromomethane	0.0303	0.010	mg/Kg wet	0.0200		**151** *	40-130	**35.7** *	25	L-07A, R-05, V-20	†
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.200		99.0	70-160	13.8	25		†
tert-Butyl Alcohol (TBA)	0.176	0.040	mg/Kg wet	0.200		87.9	40-130	5.64	25	V-16	†
n-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	5.84	25		
sec-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	6.82	25		
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-160	4.71	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	14.8	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035												
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13								
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	9.24	25		
Chlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	9.68	25		
Chlorodibromomethane	0.0200	0.0010	mg/Kg wet	0.0200		100		70-130	7.35	25		
Chloroethane	0.0247	0.020	mg/Kg wet	0.0200		124		70-130	11.4	25		
Chloroform	0.0200	0.0040	mg/Kg wet	0.0200		99.9		70-130	12.3	25		
Chloromethane	0.0105	0.010	mg/Kg wet	0.0200		**52.4**	*	70-130	6.91	25	L-04, V-05	
2-Chlorotoluene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	6.14	25		
4-Chlorotoluene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	5.84	25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		109		70-130	9.25	25		
1,2-Dichlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	9.17	25		
1,3-Dichlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117		70-130	10.1	25		
1,4-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130	3.38	25		
Dichlorodifluoromethane (Freon 12)	0.0114	0.020	mg/Kg wet	0.0200		57.1		40-160	6.70	25	J	†
1,1-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130	16.6	25		
1,2-Dichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-130	14.4	25		
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130	3.73	25		
cis-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9		70-130	10.4	25		
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		93.2		70-130	12.7	25		
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	8.74	25		
1,3-Dichloropropane	0.0222	0.0010	mg/Kg wet	0.0200		111		70-130	9.74	25		
2,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	12.7	25		
1,1-Dichloropropene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	17.0	25		
cis-1,3-Dichloropropene	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	13.8	25		
trans-1,3-Dichloropropene	0.0241	0.0010	mg/Kg wet	0.0200		121		70-130	15.7	25		
Diisopropyl Ether (DIPE)	0.0207	0.0010	mg/Kg wet	0.0200		104		70-130	9.30	25		
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	8.07	25		
2-Hexanone (MBK)	0.205	0.020	mg/Kg wet	0.200		102		70-160	7.37	25		†
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	7.40	25		
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	4.50	25		
Methyl tert-Butyl Ether (MTBE)	0.0216	0.0040	mg/Kg wet	0.0200		108		70-130	11.6	25		
Methylene Chloride	0.0186	0.020	mg/Kg wet	0.0200		93.1		40-160	9.68	25	J	†
4-Methyl-2-pentanone (MIBK)	0.206	0.020	mg/Kg wet	0.200		103		70-160	8.51	25		†
Naphthalene	0.0189	0.0040	mg/Kg wet	0.0200		94.7		40-130	5.87	25		†
n-Propylbenzene	0.0231	0.0020	mg/Kg wet	0.0200		115		70-130	8.40	25		
Styrene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	8.46	25		
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130	10.9	25		
1,1,2,2-Tetrachloroethane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130	9.94	25		
Tetrachloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	7.35	25		
Toluene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130	12.4	25		
1,2,3-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9		70-130	2.30	25		
1,2,4-Trichlorobenzene	0.0237	0.0020	mg/Kg wet	0.0200		119		70-130	5.10	25		
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8		70-130	8.68	25		
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130	5.13	25		
Trichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9		70-130	9.25	25		
Trichlorofluoromethane (Freon 11)	0.0224	0.010	mg/Kg wet	0.0200		112		70-130	0.179	25		
1,2,3-Trichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130	4.53	25		
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7		70-130	7.06	25		
1,3,5-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	6.01	25		
Vinyl Acetate	0.182	0.010	mg/Kg wet	0.200		90.8		70-130	8.49	25		
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.0200		85.2		40-130	13.5	25		†
m+p Xylene	0.0431	0.0040	mg/Kg wet	0.0400		108		70-130	7.65	25		
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	9.78	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13						
Surrogate: 1,2-Dichloroethane-d4	*0.0464*		mg/Kg wet	0.0500		92.8	70-130			
Surrogate: Toluene-d8	*0.0515*		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		98.0	70-130			
Batch B076642 - SW-846 5035										
Blank (B076642-BLK1)				Prepared & Analyzed: 07/12/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076642 - SW-846 5035												
Blank (B076642-BLK1)				Prepared & Analyzed: 07/12/13								
Naphthalene	ND	0.0040	mg/Kg wet									
n-Propylbenzene	ND	0.0020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Acetate	ND	0.010	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0470*		mg/Kg wet	0.0500		94.0		70-130				
Surrogate: Toluene-d8	*0.0496*		mg/Kg wet	0.0500		99.3		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0495*		mg/Kg wet	0.0500		99.0		70-130				
LCS (B076642-BS1)				Prepared & Analyzed: 07/12/13								
Acetone	0.167	0.10	mg/Kg wet	0.200		83.5		70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0224	0.0010	mg/Kg wet	0.0200		112		70-130		25		
Benzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9		70-130		25		
Bromobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130		25		
Bromochloromethane	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130		25		
Bromodichloromethane	0.0178	0.0020	mg/Kg wet	0.0200		89.1		70-130		25		
Bromoform	0.0170	0.0020	mg/Kg wet	0.0200		85.0		70-130		25		
Bromomethane	0.0236	0.010	mg/Kg wet	0.0200		118		40-130		25	V-20	†
2-Butanone (MEK)	0.166	0.040	mg/Kg wet	0.200		83.2		70-160		25		†
tert-Butyl Alcohol (TBA)	0.159	0.040	mg/Kg wet	0.200		79.4		40-130		25	V-16	†
n-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.8		70-130		25		
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130		25		
tert-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0205	0.0010	mg/Kg wet	0.0200		102		70-130		25		
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.1		70-130		25		
Chlorobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130		25		
Chlorodibromomethane	0.0185	0.0010	mg/Kg wet	0.0200		92.3		70-130		25		
Chloroethane	0.0207	0.020	mg/Kg wet	0.0200		103		70-130		25		
Chloroform	0.0184	0.0040	mg/Kg wet	0.0200		92.1		70-130		25		
Chloromethane	0.0112	0.010	mg/Kg wet	0.0200		**56.1**	*	70-130		25	L-04, V-20	
2-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130		25		
4-Chlorotoluene	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130		25		
1,2-Dibromoethane (EDB)	0.0204	0.0010	mg/Kg wet	0.0200		102		70-130		25		
1,2-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130		25		
1,3-Dichlorobenzene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130		25		
1,4-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.00960	0.020	mg/Kg wet	0.0200		48.0		40-160		25	J	†

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076642 - SW-846 5035											
LCS (B076642-BS1)				Prepared & Analyzed: 07/12/13							
1,1-Dichloroethane	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130		25		
1,2-Dichloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.5	70-130		25		
1,1-Dichloroethylene	0.0200	0.0040	mg/Kg wet	0.0200		99.9	70-130		25		
cis-1,2-Dichloroethylene	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130		25		
trans-1,2-Dichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.7	70-130		25		
1,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130		25		
1,3-Dichloropropane	0.0209	0.0010	mg/Kg wet	0.0200		104	70-130		25		
2,2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.5	70-130		25		
1,1-Dichloropropene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130		25		
cis-1,3-Dichloropropene	0.0197	0.0010	mg/Kg wet	0.0200		98.3	70-130		25		
trans-1,3-Dichloropropene	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130		25		
Diisopropyl Ether (DIPE)	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130		25		
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130		25		
2-Hexanone (MBK)	0.179	0.020	mg/Kg wet	0.200		89.6	70-160		25		†
Isopropylbenzene (Cumene)	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0195	0.0040	mg/Kg wet	0.0200		97.5	70-130		25		
Methylene Chloride	0.0163	0.020	mg/Kg wet	0.0200		81.4	40-160		25	J	†
4-Methyl-2-pentanone (MIBK)	0.180	0.020	mg/Kg wet	0.200		90.1	70-160		25		†
Naphthalene	0.0180	0.0040	mg/Kg wet	0.0200		90.1	40-130		25		†
n-Propylbenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Styrene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130		25		
1,1,1,2-Tetrachloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.0	70-130		25		
1,1,2,2-Tetrachloroethane	0.0194	0.0010	mg/Kg wet	0.0200		96.8	70-130		25		
Tetrachloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130		25		
Toluene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130		25		
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130		25		
1,2,4-Trichlorobenzene	0.0233	0.0020	mg/Kg wet	0.0200		117	70-130		25		
1,1,1-Trichloroethane	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130		25		
1,1,2-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130		25		
Trichloroethylene	0.0175	0.0020	mg/Kg wet	0.0200		87.5	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0226	0.010	mg/Kg wet	0.0200		113	70-130		25		
1,2,3-Trichloropropane	0.0183	0.0020	mg/Kg wet	0.0200		91.6	70-130		25		
1,2,4-Trimethylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130		25		
1,3,5-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130		25		
Vinyl Acetate	0.170	0.010	mg/Kg wet	0.200		84.8	70-130		25		
Vinyl Chloride	0.0157	0.010	mg/Kg wet	0.0200		78.7	40-130		25		†
m+p Xylene	0.0405	0.0040	mg/Kg wet	0.0400		101	70-130		25		
o-Xylene	0.0199	0.0020	mg/Kg wet	0.0200		99.7	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0451*		mg/Kg wet	0.0500		90.2	70-130				
Surrogate: Toluene-d8	*0.0511*		mg/Kg wet	0.0500		102	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0500*		mg/Kg wet	0.0500		100	70-130				

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076642 - SW-846 5035												
LCS Dup (B076642-BSD1)				Prepared & Analyzed: 07/12/13								
Acetone	0.152	0.10	mg/Kg wet	0.200		76.1		70-160	9.31	25		†
tert-Amyl Methyl Ether (TAME)	0.0221	0.0010	mg/Kg wet	0.0200		110		70-130	1.53	25		
Benzene	0.0196	0.0020	mg/Kg wet	0.0200		98.0		70-130	1.92	25		
Bromobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.6		70-130	8.08	25		
Bromochloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.2		70-130	1.98	25		
Bromodichloromethane	0.0169	0.0020	mg/Kg wet	0.0200		84.6		70-130	5.18	25		
Bromoform	0.0154	0.0020	mg/Kg wet	0.0200		77.1		70-130	9.75	25		
Bromomethane	0.0225	0.010	mg/Kg wet	0.0200		112		40-130	5.03	25	V-20	†
2-Butanone (MEK)	0.156	0.040	mg/Kg wet	0.200		78.0		70-160	6.43	25		†
tert-Butyl Alcohol (TBA)	0.159	0.040	mg/Kg wet	0.200		79.6		40-130	0.164	25	V-16	†
n-Butylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.0		70-130	7.52	25		
sec-Butylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.1		70-130	7.49	25		
tert-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.1		70-160	3.45	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0192	0.0010	mg/Kg wet	0.0200		96.1		70-130	6.35	25		
Carbon Tetrachloride	0.0181	0.0020	mg/Kg wet	0.0200		90.3		70-130	5.18	25		
Chlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	4.83	25		
Chlorodibromomethane	0.0169	0.0010	mg/Kg wet	0.0200		84.4		70-130	8.94	25		
Chloroethane	0.0200	0.020	mg/Kg wet	0.0200		100		70-130	3.14	25		
Chloroform	0.0180	0.0040	mg/Kg wet	0.0200		90.1		70-130	2.20	25		
Chloromethane	0.0103	0.010	mg/Kg wet	0.0200		**51.4**	*	70-130	8.74	25	L-04, V-20	
2-Chlorotoluene	0.0199	0.0020	mg/Kg wet	0.0200		99.7		70-130	6.69	25		
4-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130	5.03	25		
1,2-Dibromoethane (EDB)	0.0191	0.0010	mg/Kg wet	0.0200		95.7		70-130	6.57	25		
1,2-Dichlorobenzene	0.0196	0.0020	mg/Kg wet	0.0200		97.9		70-130	8.88	25		
1,3-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	4.90	25		
1,4-Dichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0		70-130	8.70	25		
Dichlorodifluoromethane (Freon 12)	0.00952	0.020	mg/Kg wet	0.0200		47.6		40-160	0.837	25	J	†
1,1-Dichloroethane	0.0168	0.0020	mg/Kg wet	0.0200		83.8		70-130	4.55	25		
1,2-Dichloroethane	0.0171	0.0020	mg/Kg wet	0.0200		85.5		70-130	4.57	25		
1,1-Dichloroethylene	0.0183	0.0040	mg/Kg wet	0.0200		91.3		70-130	9.00	25		
cis-1,2-Dichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.7		70-130	3.89	25		
trans-1,2-Dichloroethylene	0.0162	0.0020	mg/Kg wet	0.0200		80.8		70-130	8.19	25		
1,2-Dichloropropane	0.0191	0.0020	mg/Kg wet	0.0200		95.4		70-130	5.90	25		
1,3-Dichloropropane	0.0186	0.0010	mg/Kg wet	0.0200		93.0		70-130	11.6	25		
2,2-Dichloropropane	0.0182	0.0020	mg/Kg wet	0.0200		91.0		70-130	4.83	25		
1,1-Dichloropropene	0.0186	0.0020	mg/Kg wet	0.0200		93.2		70-130	9.21	25		
cis-1,3-Dichloropropene	0.0183	0.0010	mg/Kg wet	0.0200		91.5		70-130	7.17	25		
trans-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		103		70-130	9.85	25		
Diisopropyl Ether (DIPE)	0.0184	0.0010	mg/Kg wet	0.0200		92.0		70-130	5.29	25		
Ethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130	5.66	25		
2-Hexanone (MBK)	0.167	0.020	mg/Kg wet	0.200		83.5		70-160	7.09	25		†
Isopropylbenzene (Cumene)	0.0188	0.0020	mg/Kg wet	0.0200		94.2		70-130	4.36	25		
p-Isopropyltoluene (p-Cymene)	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130	6.55	25		
Methyl tert-Butyl Ether (MTBE)	0.0188	0.0040	mg/Kg wet	0.0200		93.9		70-130	3.76	25		
Methylene Chloride	0.0162	0.020	mg/Kg wet	0.0200		81.0		40-160	0.493	25	J	†
4-Methyl-2-pentanone (MIBK)	0.174	0.020	mg/Kg wet	0.200		87.0		70-160	3.49	25		†
Naphthalene	0.0161	0.0040	mg/Kg wet	0.0200		80.4		40-130	11.4	25		†
n-Propylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	4.15	25		
Styrene	0.0184	0.0020	mg/Kg wet	0.0200		92.0		70-130	5.70	25		
1,1,1,2-Tetrachloroethane	0.0179	0.0020	mg/Kg wet	0.0200		89.6		70-130	6.90	25		
1,1,2,2-Tetrachloroethane	0.0174	0.0010	mg/Kg wet	0.0200		86.8		70-130	10.9	25		
Tetrachloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.3		70-130	4.48	25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076642 - SW-846 5035										
LCS Dup (B076642-BSD1)				Prepared & Analyzed: 07/12/13						
Toluene	0.0195	0.0020	mg/Kg wet	0.0200		97.7	70-130	5.77	25	
1,2,3-Trichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		87.8	70-130	6.18	25	
1,2,4-Trichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	7.19	25	
1,1,1-Trichloroethane	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130	3.10	25	
1,1,2-Trichloroethane	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130	8.56	25	
Trichloroethylene	0.0169	0.0020	mg/Kg wet	0.0200		84.3	70-130	3.73	25	
Trichlorofluoromethane (Freon 11)	0.0218	0.010	mg/Kg wet	0.0200		109	70-130	3.69	25	
1,2,3-Trichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130	3.10	25	
1,2,4-Trimethylbenzene	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130	7.28	25	
1,3,5-Trimethylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130	8.95	25	
Vinyl Acetate	0.162	0.010	mg/Kg wet	0.200		81.2	70-130	4.29	25	
Vinyl Chloride	0.0155	0.010	mg/Kg wet	0.0200		77.6	40-130	1.41	25	†
m+p Xylene	0.0386	0.0040	mg/Kg wet	0.0400		96.5	70-130	4.85	25	
o-Xylene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130	5.25	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0455*		mg/Kg wet	0.0500		91.0	70-130			
Surrogate: Toluene-d8	*0.0507*		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0493*		mg/Kg wet	0.0500		98.6	70-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13						
No TICs Found	0.0		mg/Kg wet							
Batch B076642 - SW-846 5035										
Blank (B076642-BLK1)				Prepared & Analyzed: 07/12/13						
Tentatively Identified Compounds	0.0		mg/Kg wet							
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							V-20
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							R-05
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							V-05
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05
Di-n-octylphthalate	ND	0.67	mg/Kg wet							V-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							R-05
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							R-05, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546												
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachlorophenol	ND	0.34	mg/Kg wet								R-05	
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*5.33*		mg/Kg wet	6.67		80.0		30-130				
Surrogate: Phenol-d6	*5.58*		mg/Kg wet	6.67		83.6		30-130				
Surrogate: Nitrobenzene-d5	*3.00*		mg/Kg wet	3.33		89.9		30-130				
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.43*		mg/Kg wet	6.67		111		30-130				
Surrogate: p-Terphenyl-d14	*4.05*		mg/Kg wet	3.33		122		30-130				
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Acenaphthene	1.66	0.17	mg/Kg wet	1.67		99.8		40-140		30		
Acenaphthylene	1.70	0.17	mg/Kg wet	1.67		102		40-140		30		
Anthracene	1.79	0.17	mg/Kg wet	1.67		107		40-140		30		
Benzo(a)anthracene	1.91	0.17	mg/Kg wet	1.67		115		40-140		30		
Benzo(a)pyrene	1.86	0.17	mg/Kg wet	1.67		112		40-140		30		
Benzo(b)fluoranthene	1.60	0.17	mg/Kg wet	1.67		95.8		40-140		30	V-05	
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.67		98.2		40-140		30	V-06	
Benzo(k)fluoranthene	1.68	0.17	mg/Kg wet	1.67		101		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	1.63	0.34	mg/Kg wet	1.67		97.5		40-140		30		
Bis(2-chloroethyl)ether	1.56	0.34	mg/Kg wet	1.67		93.6		40-140		30		
Bis(2-chloroisopropyl)ether	1.27	0.34	mg/Kg wet	1.67		76.4		40-140		30		
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.67		98.2		40-140		30		
4-Bromophenylphenylether	1.98	0.34	mg/Kg wet	1.67		119		40-140		30		
Butylbenzylphthalate	1.91	0.34	mg/Kg wet	1.67		115		40-140		30		
4-Chloroaniline	0.842	0.66	mg/Kg wet	1.67		50.5		10-140		30		†
4-Chloro-3-methylphenol	1.66	0.66	mg/Kg wet	1.67		99.8		30-130		30		
2-Chloronaphthalene	1.68	0.34	mg/Kg wet	1.67		101		40-140		30	R-05	
2-Chlorophenol	1.47	0.34	mg/Kg wet	1.67		88.2		30-130		30		
4-Chlorophenylphenylether	1.52	0.34	mg/Kg wet	1.67		91.2		40-140		30		
Chrysene	1.83	0.17	mg/Kg wet	1.67		110		40-140		30		
Dibenz(a,h)anthracene	1.78	0.17	mg/Kg wet	1.67		107		40-140		30		
Dibenzofuran	1.61	0.34	mg/Kg wet	1.67		96.5		40-140		30		
Di-n-butylphthalate	1.94	0.34	mg/Kg wet	1.67		116		40-140		30	V-05	
1,2-Dichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2		40-140		30		
1,3-Dichlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.7		40-140		30		
1,4-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.9		40-140		30		
3,3-Dichlorobenzidine	1.54	0.17	mg/Kg wet	1.67		92.3		20-140		50		†
2,4-Dichlorophenol	1.72	0.34	mg/Kg wet	1.67		103		30-130		30		
Diethylphthalate	1.77	0.34	mg/Kg wet	1.67		106		40-140		30		
2,4-Dimethylphenol	1.75	0.34	mg/Kg wet	1.67		105		30-130		30		
Dimethylphthalate	1.78	0.34	mg/Kg wet	1.67		107		40-140		30		
4,6-Dinitro-2-methylphenol	2.02	0.34	mg/Kg wet	1.67		121		30-130		30		
2,4-Dinitrophenol	1.60	0.66	mg/Kg wet	1.67		96.3		30-130		30	R-05	
Di-n-octylphthalate	1.60	0.67	mg/Kg wet	1.67		96.2		40-140		30	V-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.88	0.34	mg/Kg wet	1.67		113		40-140		30	R-05	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546												
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Fluoranthene	2.08	0.17	mg/Kg wet	1.67		125		40-140		30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.2		40-140		30		
Hexachlorobenzene	2.02	0.34	mg/Kg wet	1.67		121		40-140		30		
Hexachlorobutadiene	1.51	0.34	mg/Kg wet	1.67		90.5		40-140		30		
Hexachlorocyclopentadiene	0.767	0.34	mg/Kg wet	1.67		46.0		40-140		30	V-05, R-05	
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		74.9		40-140		30		
Indeno(1,2,3-cd)pyrene	1.74	0.17	mg/Kg wet	1.67		105		40-140		30		
Isophorone	1.64	0.34	mg/Kg wet	1.67		98.5		40-140		30		
1-Methylnaphthalene	1.49	0.17	mg/Kg wet	1.67		89.7		40-140		30		
2-Methylnaphthalene	1.41	0.17	mg/Kg wet	1.67		84.7		40-140		30		
2-Methylphenol	1.54	0.34	mg/Kg wet	1.67		92.2		30-130		30		
3/4-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.2		30-130		30		
Naphthalene	1.50	0.17	mg/Kg wet	1.67		89.8		40-140		30		
Nitrobenzene	1.50	0.34	mg/Kg wet	1.67		89.8		40-140		30		
2-Nitrophenol	1.81	0.34	mg/Kg wet	1.67		108		30-130		30		
4-Nitrophenol	1.19	0.66	mg/Kg wet	1.67		71.7		30-130		50	V-05	
N-Nitrosodiphenylamine	2.27	0.34	mg/Kg wet	1.67		136		40-140		30		
N-Nitrosodi-n-propylamine	1.22	0.34	mg/Kg wet	1.67		73.5		40-140		30		
Pentachlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7		30-130		30	R-05	
Phenanthrene	1.89	0.17	mg/Kg wet	1.67		114		40-140		30		
Phenol	1.45	0.34	mg/Kg wet	1.67		86.9		30-130		30		
Pyrene	1.87	0.17	mg/Kg wet	1.67		112		40-140		30		
1,2,4-Trichlorobenzene	1.59	0.34	mg/Kg wet	1.67		95.2		40-140		30		
2,4,6-Trichlorophenol	1.82	0.34	mg/Kg wet	1.67		109		30-130		30		
Surrogate: 2-Fluorophenol	*5.71*		mg/Kg wet	6.67		85.7		30-130				
Surrogate: Phenol-d6	*5.50*		mg/Kg wet	6.67		82.4		30-130				
Surrogate: Nitrobenzene-d5	*3.10*		mg/Kg wet	3.33		92.9		30-130				
Surrogate: 2-Fluorobiphenyl	*3.04*		mg/Kg wet	3.33		91.3		30-130				
Surrogate: 2,4,6-Tribromophenol	*8.87*		mg/Kg wet	6.67		**133**	*	30-130			S-07	
Surrogate: p-Terphenyl-d14	*3.92*		mg/Kg wet	3.33		118		30-130				
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Acenaphthene	1.35	0.17	mg/Kg wet	1.67		80.7		40-140	21.2	30		
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.6		40-140	23.4	30		
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.1		40-140	23.0	30		
Benzo(a)anthracene	1.51	0.17	mg/Kg wet	1.67		90.7		40-140	23.5	30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.2		40-140	23.4	30		
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1		40-140	21.7	30	V-05	
Benzo(g,h,i)perylene	1.59	0.17	mg/Kg wet	1.67		95.4		40-140	2.87	30	V-06	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8		40-140	24.6	30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.29	0.34	mg/Kg wet	1.67		77.4		40-140	23.0	30		
Bis(2-chloroethyl)ether	1.17	0.34	mg/Kg wet	1.67		70.3		40-140	28.4	30		
Bis(2-chloroisopropyl)ether	0.995	0.34	mg/Kg wet	1.67		59.7		40-140	24.5	30		
Bis(2-Ethylhexyl)phthalate	1.33	0.34	mg/Kg wet	1.67		80.0		40-140	20.4	30		
4-Bromophenylphenylether	1.56	0.34	mg/Kg wet	1.67		93.7		40-140	23.7	30		
Butylbenzylphthalate	1.53	0.34	mg/Kg wet	1.67		91.7		40-140	22.4	30		
4-Chloroaniline	0.663	0.66	mg/Kg wet	1.67		39.8		10-140	23.8	30		†
4-Chloro-3-methylphenol	1.35	0.66	mg/Kg wet	1.67		80.9		30-130	20.8	30		
2-Chloronaphthalene	1.24	0.34	mg/Kg wet	1.67		74.3		40-140	**30.2**	* 30	R-05	
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.2		30-130	25.5	30		
4-Chlorophenylphenylether	1.25	0.34	mg/Kg wet	1.67		74.9		40-140	19.7	30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076726 - SW-846 3546													
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13									
Chrysene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	21.3		30		
Dibenz(a,h)anthracene	1.59	0.17	mg/Kg wet	1.67		95.5		40-140	11.2		30		
Dibenzofuran	1.30	0.34	mg/Kg wet	1.67		78.2		40-140	20.9		30		
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		93.1		40-140	22.1		30	V-05	
1,2-Dichlorobenzene	0.994	0.34	mg/Kg wet	1.67		59.6		40-140	25.6		30		
1,3-Dichlorobenzene	0.970	0.34	mg/Kg wet	1.67		58.2		40-140	27.4		30		
1,4-Dichlorobenzene	0.966	0.34	mg/Kg wet	1.67		57.9		40-140	26.8		30		
3,3-Dichlorobenzidine	1.20	0.17	mg/Kg wet	1.67		72.2		20-140	24.5		50		† ‡
2,4-Dichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.6		30-130	23.3		30		
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		83.7		40-140	23.5		30		
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.5		30-130	25.4		30		
Dimethylphthalate	1.42	0.34	mg/Kg wet	1.67		85.1		40-140	22.5		30		
4,6-Dinitro-2-methylphenol	1.58	0.34	mg/Kg wet	1.67		95.0		30-130	24.0		30		
2,4-Dinitrophenol	1.04	0.66	mg/Kg wet	1.67		62.5		30-130	**42.6**	*	30	R-05	
Di-n-octylphthalate	1.25	0.67	mg/Kg wet	1.67		75.1		40-140	24.7		30	V-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.32	0.34	mg/Kg wet	1.67		79.3		40-140	**35.1**	*	30	R-05	
Fluoranthene	1.65	0.17	mg/Kg wet	1.67		99.1		40-140	22.9		30		
Fluorene	1.25	0.17	mg/Kg wet	1.67		75.1		40-140	18.2		30		
Hexachlorobenzene	1.60	0.34	mg/Kg wet	1.67		96.2		40-140	23.0		30		
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		70.5		40-140	24.9		30		
Hexachlorocyclopentadiene	0.566	0.34	mg/Kg wet	1.67		**33.9**	*	40-140	**30.2**	*	30	L-07A, V-05	
Hexachloroethane	0.957	0.34	mg/Kg wet	1.67		57.4		40-140	26.3		30		
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.2		40-140	9.49		30		
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.0		40-140	24.5		30		
1-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8		40-140	22.1		30		
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140	22.0		30		
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8		30-130	24.9		30		
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.7		30-130	24.9		30		
Naphthalene	1.17	0.17	mg/Kg wet	1.67		70.5		40-140	24.1		30		
Nitrobenzene	1.17	0.34	mg/Kg wet	1.67		70.5		40-140	24.1		30		
2-Nitrophenol	1.42	0.34	mg/Kg wet	1.67		85.3		30-130	23.9		30		
4-Nitrophenol	0.994	0.66	mg/Kg wet	1.67		59.7		30-130	18.3		50	V-05	‡
N-Nitrosodiphenylamine	1.86	0.34	mg/Kg wet	1.67		112		40-140	19.7		30		
N-Nitrosodi-n-propylamine	0.972	0.34	mg/Kg wet	1.67		58.3		40-140	23.1		30		
Pentachlorophenol	0.969	0.34	mg/Kg wet	1.67		58.1		30-130	**44.8**	*	30	R-05	
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.7		40-140	20.2		30		
Phenol	1.14	0.34	mg/Kg wet	1.67		68.6		30-130	23.4		30		
Pyrene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	23.5		30		
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.7		40-140	25.5		30		
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.7		30-130	24.3		30		
Surrogate: 2-Fluorophenol	*4.40*		mg/Kg wet	6.67		66.0		30-130					
Surrogate: Phenol-d6	*4.36*		mg/Kg wet	6.67		65.4		30-130					
Surrogate: Nitrobenzene-d5	*2.40*		mg/Kg wet	3.33		72.1		30-130					
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.2		30-130					
Surrogate: 2,4,6-Tribromophenol	*6.73*		mg/Kg wet	6.67		101		30-130					
Surrogate: p-Terphenyl-d14	*3.05*		mg/Kg wet	3.33		91.6		30-130					

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
Blank (B076730-BLK1)				Prepared & Analyzed: 07/15/13							
C9-C18 Aliphatics	ND	10	mg/Kg wet								L-04
C19-C36 Aliphatics	ND	10	mg/Kg wet								L-04
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								
Phenanthrene	ND	0.10	mg/Kg wet								
Pyrene	ND	0.10	mg/Kg wet								
Surrogate: Chlorooctadecane (COD)	*2.81*		mg/Kg wet	4.99		56.3		40-140			
Surrogate: o-Terphenyl (OTP)	*2.94*		mg/Kg wet	5.00		58.8		40-140			
Surrogate: 2-Bromonaphthalene	*5.07*		mg/Kg wet	5.00		101		40-140			
Surrogate: 2-Fluorobiphenyl	*5.34*		mg/Kg wet	5.00		107		40-140			
LCS (B076730-BS1)				Prepared & Analyzed: 07/15/13							
Acenaphthene	2.83	0.10	mg/Kg wet	5.00		56.6		40-140			
Acenaphthylene	2.81	0.10	mg/Kg wet	5.00		56.2		40-140			
Anthracene	4.16	0.10	mg/Kg wet	5.00		83.1		40-140			
Benzo(a)anthracene	4.31	0.10	mg/Kg wet	5.00		86.2		40-140			
Benzo(a)pyrene	3.98	0.10	mg/Kg wet	5.00		79.6		40-140			
Benzo(b)fluoranthene	4.20	0.10	mg/Kg wet	5.00		83.9		40-140			
Benzo(g,h,i)perylene	3.90	0.10	mg/Kg wet	5.00		78.0		40-140			
Benzo(k)fluoranthene	4.02	0.10	mg/Kg wet	5.00		80.4		40-140			
Chrysene	3.97	0.10	mg/Kg wet	5.00		79.4		40-140			
Dibenz(a,h)anthracene	4.09	0.10	mg/Kg wet	5.00		81.9		40-140			
Fluoranthene	4.23	0.10	mg/Kg wet	5.00		84.5		40-140			
Fluorene	3.35	0.10	mg/Kg wet	5.00		67.0		40-140			
Indeno(1,2,3-cd)pyrene	4.29	0.10	mg/Kg wet	5.00		85.7		40-140			
2-Methylnaphthalene	2.80	0.10	mg/Kg wet	5.00		56.0		40-140			
Naphthalene	2.53	0.10	mg/Kg wet	5.00		50.6		40-140			
Phenanthrene	4.01	0.10	mg/Kg wet	5.00		80.2		40-140			
Pyrene	4.17	0.10	mg/Kg wet	5.00		83.4		40-140			
n-Decane	1.60	0.10	mg/Kg wet	5.00		**31.9**	*	40-140			L-04
n-Docosane	4.12	0.10	mg/Kg wet	5.00		82.4		40-140			
n-Dodecane	2.18	0.10	mg/Kg wet	5.00		43.5		40-140			
n-Eicosane	4.00	0.10	mg/Kg wet	5.00		79.9		40-140			
n-Hexacosane	4.11	0.10	mg/Kg wet	5.00		82.2		40-140			
n-Hexadecane	3.24	0.10	mg/Kg wet	5.00		64.7		40-140			
n-Hexatriacontane	1.69	0.10	mg/Kg wet	5.00		**33.8**	*	40-140			L-04
n-Nonadecane	3.97	0.10	mg/Kg wet	5.00		79.3		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
LCS (B076730-BS1)				Prepared & Analyzed: 07/15/13							
n-Nonane	1.05	0.10	mg/Kg wet	5.00		**21.0**	*	30-140			L-04
n-Octacosane	3.96	0.10	mg/Kg wet	5.00		79.2		40-140			
n-Octadecane	3.82	0.10	mg/Kg wet	5.00		76.4		40-140			
n-Tetracosane	4.13	0.10	mg/Kg wet	5.00		82.7		40-140			
n-Tetradecane	2.56	0.10	mg/Kg wet	5.00		51.1		40-140			
n-Triacontane	3.96	0.10	mg/Kg wet	5.00		79.3		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.74*		mg/Kg wet	4.99		74.9		40-140			
Surrogate: o-Terphenyl (OTP)	*3.40*		mg/Kg wet	5.00		68.0		40-140			
Surrogate: 2-Bromonaphthalene	*4.39*		mg/Kg wet	5.00		87.8		40-140			
Surrogate: 2-Fluorobiphenyl	*4.64*		mg/Kg wet	5.00		92.8		40-140			
LCS Dup (B076730-BSD1)				Prepared & Analyzed: 07/15/13							
Acenaphthene	2.96	0.10	mg/Kg wet	5.00		59.3		40-140	4.68	25	
Acenaphthylene	2.95	0.10	mg/Kg wet	5.00		59.1		40-140	4.99	25	
Anthracene	3.71	0.10	mg/Kg wet	5.00		74.3		40-140	11.2	25	
Benzo(a)anthracene	3.71	0.10	mg/Kg wet	5.00		74.2		40-140	15.1	25	
Benzo(a)pyrene	3.42	0.10	mg/Kg wet	5.00		68.4		40-140	15.2	25	
Benzo(b)fluoranthene	3.58	0.10	mg/Kg wet	5.00		71.6		40-140	15.9	25	
Benzo(g,h,i)perylene	3.34	0.10	mg/Kg wet	5.00		66.8		40-140	15.4	25	
Benzo(k)fluoranthene	3.48	0.10	mg/Kg wet	5.00		69.5		40-140	14.5	25	
Chrysene	3.44	0.10	mg/Kg wet	5.00		68.8		40-140	14.3	25	
Dibenz(a,h)anthracene	3.53	0.10	mg/Kg wet	5.00		70.6		40-140	14.8	25	
Fluoranthene	3.66	0.10	mg/Kg wet	5.00		73.3		40-140	14.2	25	
Fluorene	3.37	0.10	mg/Kg wet	5.00		67.4		40-140	0.619	25	
Indeno(1,2,3-cd)pyrene	3.65	0.10	mg/Kg wet	5.00		73.1		40-140	16.0	25	
2-Methylnaphthalene	2.85	0.10	mg/Kg wet	5.00		56.9		40-140	1.61	25	
Naphthalene	2.55	0.10	mg/Kg wet	5.00		51.0		40-140	0.897	25	
Phenanthrene	3.65	0.10	mg/Kg wet	5.00		73.0		40-140	9.39	25	
Pyrene	3.61	0.10	mg/Kg wet	5.00		72.1		40-140	14.6	25	
n-Decane	1.60	0.10	mg/Kg wet	5.00		**32.0**	*	40-140	0.257	25	L-04
n-Docosane	3.84	0.10	mg/Kg wet	5.00		76.7		40-140	7.13	25	
n-Dodecane	2.29	0.10	mg/Kg wet	5.00		45.8		40-140	5.12	25	
n-Eicosane	3.73	0.10	mg/Kg wet	5.00		74.7		40-140	6.76	25	
n-Hexacosane	3.82	0.10	mg/Kg wet	5.00		76.3		40-140	7.46	25	
n-Hexadecane	3.39	0.10	mg/Kg wet	5.00		67.8		40-140	4.61	25	
n-Hexatriacontane	1.58	0.10	mg/Kg wet	5.00		**31.5**	*	40-140	7.14	25	L-04
n-Nonadecane	3.72	0.10	mg/Kg wet	5.00		74.4		40-140	6.34	25	
n-Nonane	0.982	0.10	mg/Kg wet	5.00		**19.6**	*	30-140	6.74	25	L-04
n-Octacosane	3.66	0.10	mg/Kg wet	5.00		73.3		40-140	7.81	25	
n-Octadecane	3.65	0.10	mg/Kg wet	5.00		73.1		40-140	4.44	25	
n-Tetracosane	3.83	0.10	mg/Kg wet	5.00		76.7		40-140	7.56	25	
n-Tetradecane	2.85	0.10	mg/Kg wet	5.00		57.1		40-140	11.0	25	
n-Triacontane	3.67	0.10	mg/Kg wet	5.00		73.5		40-140	7.57	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.37*		mg/Kg wet	4.99		67.6		40-140			
Surrogate: o-Terphenyl (OTP)	*2.93*		mg/Kg wet	5.00		58.6		40-140			
Surrogate: 2-Bromonaphthalene	*4.45*		mg/Kg wet	5.00		89.0		40-140			
Surrogate: 2-Fluorobiphenyl	*4.71*		mg/Kg wet	5.00		94.2		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
Matrix Spike (B076730-MS1)		**Source: 13G0334-01**		Prepared & Analyzed: 07/15/13							
C9-C18 Aliphatics	25.9	12	mg/Kg dry	37.1	6.21	53.2		40-140			
C19-C36 Aliphatics	40.6	12	mg/Kg dry	49.4	4.26	73.6		40-140			
Unadjusted C11-C22 Aromatics	98.4	12	mg/Kg dry	105	9.15	84.9		40-140			
Acenaphthene	4.65	0.12	mg/Kg dry	6.18	0.00	75.2		40-140			
Acenaphthylene	4.40	0.12	mg/Kg dry	6.18	0.00	71.3		40-140			
Anthracene	5.35	0.12	mg/Kg dry	6.18	0.00	86.5		40-140			
Benzo(a)anthracene	5.73	0.12	mg/Kg dry	6.18	0.00	92.7		40-140			
Benzo(a)pyrene	5.48	0.12	mg/Kg dry	6.18	0.00	88.7		40-140			
Benzo(b)fluoranthene	5.71	0.12	mg/Kg dry	6.18	0.00	92.4		40-140			
Benzo(g,h,i)perylene	5.72	0.12	mg/Kg dry	6.18	0.00	92.5		40-140			
Benzo(k)fluoranthene	5.61	0.12	mg/Kg dry	6.18	0.00	90.7		40-140			
Chrysene	5.36	0.12	mg/Kg dry	6.18	0.00	86.7		40-140			
Dibenz(a,h)anthracene	5.81	0.12	mg/Kg dry	6.18	0.00	94.0		40-140			
Fluoranthene	5.51	0.12	mg/Kg dry	6.18	0.00	89.2		40-140			
Fluorene	4.89	0.12	mg/Kg dry	6.18	0.00	79.1		40-140			
Indeno(1,2,3-cd)pyrene	5.91	0.12	mg/Kg dry	6.18	0.00	95.6		40-140			
2-Methylnaphthalene	4.15	0.12	mg/Kg dry	6.18	0.00	67.2		40-140			
Naphthalene	3.62	0.12	mg/Kg dry	6.18	0.00	58.7		40-140			
Phenanthrene	5.27	0.12	mg/Kg dry	6.18	0.00	85.3		40-140			
Pyrene	5.38	0.12	mg/Kg dry	6.18	0.00	87.1		40-140			
n-Nonane	1.22	0.12	mg/Kg dry	6.18	0.00	**19.7**	*	30-140			MS-09
Surrogate: Chlorooctadecane (COD)	*4.48*		mg/Kg dry	6.17		72.7		40-140			
Surrogate: o-Terphenyl (OTP)	*4.82*		mg/Kg dry	6.18		78.0		40-140			
Surrogate: 2-Bromonaphthalene	*4.58*		mg/Kg dry	6.18		74.0		40-140			
Surrogate: 2-Fluorobiphenyl	*5.12*		mg/Kg dry	6.18		82.9		40-140			
Matrix Spike Dup (B076730-MSD1)		**Source: 13G0334-01**		Prepared & Analyzed: 07/15/13							
C9-C18 Aliphatics	28.3	12	mg/Kg dry	37.1	6.21	59.7		40-140	8.87	50	
C19-C36 Aliphatics	41.4	12	mg/Kg dry	49.4	4.26	75.2		40-140	1.90	50	
Unadjusted C11-C22 Aromatics	89.2	12	mg/Kg dry	105	9.15	76.2		40-140	9.76	50	
Acenaphthene	4.68	0.12	mg/Kg dry	6.18	0.00	75.7		40-140	0.610	50	
Acenaphthylene	4.46	0.12	mg/Kg dry	6.18	0.00	72.2		40-140	1.28	50	
Anthracene	5.03	0.12	mg/Kg dry	6.18	0.00	81.4		40-140	6.12	50	
Benzo(a)anthracene	5.09	0.12	mg/Kg dry	6.18	0.00	82.4		40-140	11.8	50	
Benzo(a)pyrene	4.84	0.12	mg/Kg dry	6.18	0.00	78.3		40-140	12.5	50	
Benzo(b)fluoranthene	5.04	0.12	mg/Kg dry	6.18	0.00	81.5		40-140	12.5	50	
Benzo(g,h,i)perylene	5.00	0.12	mg/Kg dry	6.18	0.00	80.9		40-140	13.4	50	
Benzo(k)fluoranthene	4.97	0.12	mg/Kg dry	6.18	0.00	80.4		40-140	12.0	50	
Chrysene	4.77	0.12	mg/Kg dry	6.18	0.00	77.2		40-140	11.5	50	
Dibenz(a,h)anthracene	5.10	0.12	mg/Kg dry	6.18	0.00	82.6		40-140	12.9	50	
Fluoranthene	5.03	0.12	mg/Kg dry	6.18	0.00	81.4		40-140	9.06	50	
Fluorene	4.77	0.12	mg/Kg dry	6.18	0.00	77.2		40-140	2.43	50	
Indeno(1,2,3-cd)pyrene	5.18	0.12	mg/Kg dry	6.18	0.00	83.9		40-140	13.1	50	
2-Methylnaphthalene	4.15	0.12	mg/Kg dry	6.18	0.00	67.2		40-140	0.0655	50	
Naphthalene	3.59	0.12	mg/Kg dry	6.18	0.00	58.1		40-140	0.970	50	
Phenanthrene	4.96	0.12	mg/Kg dry	6.18	0.00	80.2		40-140	6.07	50	
Pyrene	4.92	0.12	mg/Kg dry	6.18	0.00	79.6		40-140	8.99	50	
n-Nonane	1.46	0.12	mg/Kg dry	6.18	0.00	**23.7**	*	30-140	18.4	50	MS-09
Surrogate: Chlorooctadecane (COD)	*4.83*		mg/Kg dry	6.17		78.3		40-140			
Surrogate: o-Terphenyl (OTP)	*4.50*		mg/Kg dry	6.18		72.8		40-140			
Surrogate: 2-Bromonaphthalene	*3.92*		mg/Kg dry	6.18		63.5		40-140			
Surrogate: 2-Fluorobiphenyl	*4.59*		mg/Kg dry	6.18		74.3		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076454 - MA VPH										
Blank (B076454-BLK1)				Prepared & Analyzed: 07/11/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*3.07*		mg/Kg wet	3.33		92.1	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.99*		mg/Kg wet	3.33		89.8	70-130			
LCS (B076454-BS1)				Prepared & Analyzed: 07/11/13						
Benzene	4.94	0.050	mg/Kg wet	5.00		98.8	70-130			
Butylcyclohexane	4.02	0.050	mg/Kg wet	5.00		80.4	70-130			
Decane	4.25	0.050	mg/Kg wet	5.00		84.9	70-130			
Ethylbenzene	5.31	0.050	mg/Kg wet	5.00		106	70-130			
Methyl tert-Butyl Ether (MTBE)	5.05	0.050	mg/Kg wet	5.00		101	70-130			
2-Methylpentane	4.16	0.050	mg/Kg wet	5.00		83.2	70-130			
Naphthalene	5.48	0.25	mg/Kg wet	5.00		110	70-130			
Nonane	4.03	0.050	mg/Kg wet	5.00		80.7	30-130			
Pentane	3.86	0.050	mg/Kg wet	5.00		77.1	70-130			
Toluene	5.18	0.050	mg/Kg wet	5.00		104	70-130			
1,2,4-Trimethylbenzene	5.05	0.050	mg/Kg wet	5.00		101	70-130			
2,2,4-Trimethylpentane	4.21	0.050	mg/Kg wet	5.00		84.2	70-130			
m+p Xylene	10.8	0.10	mg/Kg wet	10.0		108	70-130			
o-Xylene	5.29	0.050	mg/Kg wet	5.00		106	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*2.86*		mg/Kg wet	3.33		85.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.76*		mg/Kg wet	3.33		82.9	70-130			
LCS Dup (B076454-BSD1)				Prepared & Analyzed: 07/11/13						
Benzene	4.81	0.050	mg/Kg wet	5.00		96.2	70-130	2.69	25	
Butylcyclohexane	4.15	0.050	mg/Kg wet	5.00		83.0	70-130	3.10	25	
Decane	4.48	0.050	mg/Kg wet	5.00		89.6	70-130	5.41	25	
Ethylbenzene	5.15	0.050	mg/Kg wet	5.00		103	70-130	3.10	25	
Methyl tert-Butyl Ether (MTBE)	5.06	0.050	mg/Kg wet	5.00		101	70-130	0.184	25	
2-Methylpentane	4.01	0.050	mg/Kg wet	5.00		80.3	70-130	3.58	25	
Naphthalene	5.51	0.25	mg/Kg wet	5.00		110	70-130	0.651	25	
Nonane	4.16	0.050	mg/Kg wet	5.00		83.3	30-130	3.16	25	
Pentane	3.75	0.050	mg/Kg wet	5.00		75.0	70-130	2.71	25	
Toluene	5.03	0.050	mg/Kg wet	5.00		101	70-130	2.85	25	
1,2,4-Trimethylbenzene	4.92	0.050	mg/Kg wet	5.00		98.4	70-130	2.62	25	
2,2,4-Trimethylpentane	4.06	0.050	mg/Kg wet	5.00		81.3	70-130	3.54	25	
m+p Xylene	10.5	0.10	mg/Kg wet	10.0		105	70-130	2.93	25	
o-Xylene	5.14	0.050	mg/Kg wet	5.00		103	70-130	2.91	25	
Surrogate: 2,5-Dibromotoluene (FID)	*3.17*		mg/Kg wet	3.33		95.2	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.94*		mg/Kg wet	3.33		88.2	70-130			

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

con-test® ANALYTICAL LABORATORY

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

ANALYST

SLD	Stacy L. Dybas
SMC	Steven M. Case
SCS	Scott C. Sadowski
RH	Robert H. Witherell
OJS	Olga J. Szymura
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
ESH	Erin S. Herlihy
EEH	Eric E. Hess
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
CMF	Chris M. Foley
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0334

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Glue ASTs
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)					Comments
	~~Trip Blank~~		-	Lab	S	3	2	1				x								BM
01	GAST-1	7/9/13	1210	BM	S	6	2	3			1	x	x	x	x					
02	GAST-2	↓	1220	↓	S	6	2	3			1	x	x	x	x					
03	Dup-3	↓	1530	↓	S	6	2	3			1	x	x	x	x					
					S	0														
					S	0														
					S	0														
					S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/9/13 1830	1 Fed-X	2		2
Relinquished by Sampler: 3	Date Time: 7/10/13 09:31	Received By: 3 [signature] 4.0	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applicable ☐	On Ice: ☐

07-10-13 14:17 IN

FedEx.

802540399110

Ship (P/U) date :
Tues 7/09/2013 5:55 pm
RAL US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Wed 7/10/2013 9:31 am
MA US

Travel History

Date/Time	Activity	Location
- 7/10/2013 - Wednesday		
9:31 am	Delivered	MA
8:02 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:18 am	At local FedEx facility	WINDSOR LOCKS, CT
5:59 am	At destination sort facility	EAST GRANBY, CT
4:23 am	Departed FedEx location	INDIANAPOLIS, IN
- 7/09/2013 - Tuesday		
11:51 pm	Arrived at FedEx location	INDIANAPOLIS, IN
8:48 pm	Left FedEx origin facility	RALEIGH, NC
5:55 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

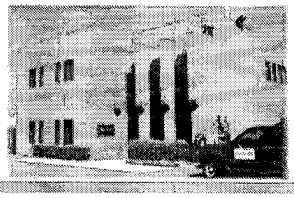
Local Scan Time

Shipment Facts

Tracking number	802540399110	**Service**	FedEx Priority Overnight
Weight	18 lbs	**Dimensions**	13x12x12 in.
Delivered To	Receptionist/Front Desk	**Total pieces**	1
Total shipment weight	18 lbs / 8.2 kgs	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: UBS Corporation **RECEIVED BY:** SD **DATE:** 7/10/13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**
   On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑
   Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
   Temperature °C by Temp blank 4.0 Temperature °C by Temp gun _____
5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 19

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

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	3
500 mL Amber		4 oz amber/clear jar	3
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	12	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

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

Time and Date Frozen: 07-10-13 14:17 IN

Doc# 277
Rev. 3 May 2012

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

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Glue Evaporation Pond
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0336

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0336

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

PROJECT LOCATION: Glue Evaporation Pond

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
GEP-3	13G0336-01	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
GEP-4	13G0336-02	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
GEP-5	13G0336-03	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

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

CASE NARRATIVE SUMMARY

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

REVISED REPORT 08/07/13: Per client request the project location has been revised to "Glue Evaporation Pond".

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076523-BS1	B076523-BSD1
C9-C18	80%	72%
C19-C36	99%	92%
C11-C22	76%	89%

VPH	B076643-BS1	B076643-BSD1
C9-C10	96%	96%

MADEP-EPH-04-1.1

Qualifications:

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

Analyte & Samples(s) Qualified:

C9-C18 Aliphatics, n-Decane, n-Nonane

13G0336-01[GEP-3], 13G0336-02[GEP-4], 13G0336-03[GEP-5], B076523-BLK1, B076523-BS1, B076523-BSD1

SW-846 8260B

Qualifications:

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

Analyte & Samples(s) Qualified:

Chloromethane, Dichlorodifluoromethane (Freon 12)

13G0336-01[GEP-3], 13G0336-02[GEP-4], 13G0336-03[GEP-5], B076751-BLK1, B076751-BS1, B076751-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Methyl tert-Butyl Ether (MTBE), tert-Butyl Alcohol (TBA), trans-1,2-Dichloroethylene

B076751-BS1

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

Analyte & Samples(s) Qualified:

Acetone, Methyl tert-Butyl Ether (MTBE), Methylene Chloride, tert-Butyl Alcohol (TBA), trans-1,2-Dichloroethylene

13G0336-01[GEP-3], 13G0336-02[GEP-4], 13G0336-03[GEP-5], B076751-BLK1, B076751-BS1, B076751-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA)

13G0336-01[GEP-3], 13G0336-02[GEP-4], 13G0336-03[GEP-5], B076751-BLK1, B076751-BS1, B076751-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane

B076751-BS1, B076751-BSD1

SW-846 8270D

Qualifications:

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

Analyte & Samples(s) Qualified:

Benzoic Acid

13G0336-01[GEP-3], 13G0336-02[GEP-4], 13G0336-03[GEP-5], B076726-BLK1, B076726-BS1, B076726-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

B076726-BSD1

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

Analyte & Samples(s) Qualified:

4-Chloroaniline, Hexachlorocyclopentadiene

13G0336-02[GEP-4], B076726-MS1, B076726-MSD1

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

B076726-MSD1

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

Analyte & Samples(s) Qualified:

1,2-Diphenylhydrazine (as Azobenzene), 2,4-Dinitrophenol, 2-Chloronaphthalene, Hexachlorocyclopentadiene, Pentachlorophenol

13G0336-01[GEP-3], 13G0336-02[GEP-4], 13G0336-03[GEP-5], B076726-BLK1, B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dimethylphenol, 3,3-Dichlorobenzidine

13G0336-02[GEP-4], B076726-MS1, B076726-MSD1

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

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

B076726-BS1

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

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzo(b)fluoranthene, Benzoic Acid, Di-n-butylphthalate, Di-n-octylphthalate, Hexachlorocyclopentadiene, N-Nitrosodi-n-propylamine

13G0336-01[GEP-3], 13G0336-02[GEP-4], 13G0336-03[GEP-5], B076726-BLK1, B076726-BS1, B076726-BSD1, B076726-MS1, B076726-MSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, Benzo(g,h,i)perylene

B076726-MS1, B076726-MSD1, B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, Benzo(g,h,i)perylene

13G0336-01[GEP-3], 13G0336-02[GEP-4], 13G0336-03[GEP-5], B076726-BLK1

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

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

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

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3 | Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 16:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Benzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Bromobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Bromochloromethane	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Bromodichloromethane	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Bromoform	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Bromomethane	ND	0.013	0.0023	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
2-Butanone (MEK)	ND	0.053	0.023	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
tert-Butyl Alcohol (TBA)	ND	0.053	0.028	mg/Kg dry	1	R-05, V-16	SW-846 8260B	7/15/13	7/15/13 16:32	MFF
n-Butylbenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
sec-Butylbenzene	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
tert-Butylbenzene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00080	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Carbon Tetrachloride	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Chlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Chlorodibromomethane	ND	0.0053	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Chloroethane	ND	0.027	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Chloroform	ND	0.0053	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1	L-04	SW-846 8260B	7/15/13	7/15/13 16:32	MFF
2-Chlorotoluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
4-Chlorotoluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,2-Dichlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,3-Dichlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,4-Dichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	0.0017	mg/Kg dry	1	L-04	SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,1-Dichloroethane	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,2-Dichloroethane	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,1-Dichloroethylene	ND	0.0053	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
cis-1,2-Dichloroethylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
trans-1,2-Dichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,2-Dichloropropane	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,3-Dichloropropane	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
2,2-Dichloropropane	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,1-Dichloropropene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Diisopropyl Ether (DIPE)	ND	0.0013	0.00080	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Ethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
2-Hexanone (MBK)	ND	0.053	0.014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Isopropylbenzene (Cumene)	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0053	0.0012	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 16:32	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3 | Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.027	0.0094	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 16:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.053	0.010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Naphthalene	ND	0.0053	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
n-Propylbenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Styrene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Tetrachloroethylene	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Toluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,2,3-Trichlorobenzene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,2,4-Trichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,1,1-Trichloroethane	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,1,2-Trichloroethane	ND	0.0027	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Trichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,2,3-Trichloropropane	ND	0.0027	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,2,4-Trimethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
1,3,5-Trimethylbenzene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Vinyl Acetate	ND	0.013	0.0089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
Vinyl Chloride	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
m+p Xylene	ND	0.0053	0.0023	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF
o-Xylene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 16:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	93.8	70-130		7/15/13 16:32
Toluene-d8	99.6	70-130		7/15/13 16:32
4-Bromofluorobenzene	94.4	70-130		7/15/13 16:32

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

Project Location: Glue Evaporation Pond
Sample Description:
Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3
Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/15/13	7/15/13 16:32	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3 | Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Benzo(a)anthracene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Benzo(a)pyrene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Bis(2-Ethylhexyl)phthalate	0.22	0.42	0.093	mg/Kg dry	1	J	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Butylbenzylphthalate	0.32	0.42	0.17	mg/Kg dry	1	J	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
4-Chloroaniline	ND	0.81	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
4-Chloro-3-methylphenol	ND	0.81	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Chrysene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Dibenzofuran	ND	0.42	0.097	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
1,2-Dichlorobenzene	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
1,3-Dichlorobenzene	ND	0.42	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
1,4-Dichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2,4-Dinitrophenol	ND	0.81	0.41	mg/Kg dry	1	R-05, V-20	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Di-n-octylphthalate	ND	0.82	0.57	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Hexachlorocyclopentadiene	ND	0.42	0.27	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3 | Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Naphthalene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
4-Nitrophenol	ND	0.81	0.73	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
Pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
1,2,4-Trichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	50.8	30-130		7/22/13 23:15
Phenol-d6	54.0	30-130		7/22/13 23:15
Nitrobenzene-d5	54.7	30-130		7/22/13 23:15
2-Fluorobiphenyl	55.6	30-130		7/22/13 23:15
2,4,6-Tribromophenol	72.8	30-130		7/22/13 23:15
p-Terphenyl-d14	74.6	30-130		7/22/13 23:15

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

Project Location: Glue Evaporation Pond
Sample Description:
Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3
Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/15/13	7/22/13 23:15	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3 | Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 14:44	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	45.7	40-140		7/12/13 14:44
o-Terphenyl (OTP)	47.1	40-140		7/12/13 14:44
2-Bromonaphthalene	83.6	40-140		7/12/13 14:44
2-Fluorobiphenyl	90.4	40-140		7/12/13 14:44

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3 | Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.95

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
Unadjusted C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
C9-C10 Aromatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
Benzene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
Ethylbenzene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
Naphthalene	ND	0.38	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
Toluene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
m+p Xylene	ND	0.15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH
o-Xylene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	109	70-130		7/12/13 20:21
2,5-Dibromotoluene (PID)	106	70-130		7/12/13 20:21

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

Project Location: Glue Evaporation Pond
Sample Description:
Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-3
Sampled: 7/9/2013 11:40

Sample ID: 13G0336-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	7/16/13	7/17/13 9:35	MLA

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4 | Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 17:01	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Benzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Bromobenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	0.021	mg/Kg dry	1	R-05, V-16	SW-846 8260B	7/15/13	7/15/13 17:01	MFF
n-Butylbenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
tert-Butylbenzene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Carbon Tetrachloride	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Chlorobenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Chlorodibromomethane	ND	0.0041	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Chloroform	ND	0.0041	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Chloromethane	ND	0.010	0.00092	mg/Kg dry	1	L-04	SW-846 8260B	7/15/13	7/15/13 17:01	MFF
2-Chlorotoluene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
4-Chlorotoluene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1	L-04	SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,1-Dichloroethane	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,3-Dichloropropane	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
2,2-Dichloropropane	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,1-Dichloropropene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Ethylbenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
2-Hexanone (MBK)	ND	0.041	0.011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00092	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 17:01	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4 | Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.020	0.0073	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 17:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.041	0.0078	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Naphthalene	ND	0.0041	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
n-Propylbenzene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Toluene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Trichloroethylene	ND	0.0020	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Vinyl Acetate	ND	0.010	0.0068	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF
o-Xylene	ND	0.0020	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	91.6	70-130		7/15/13 17:01
Toluene-d8	100	70-130		7/15/13 17:01
4-Bromofluorobenzene	95.9	70-130		7/15/13 17:01

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

Project Location: Glue Evaporation Pond
Sample Description:
Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4
Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/15/13	7/15/13 17:01	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4 | Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Acenaphthylene	ND	0.19	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Benzo(a)anthracene	ND	0.19	0.088	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Benzo(a)pyrene	ND	0.19	0.069	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Benzo(b)fluoranthene	ND	0.19	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Benzo(g,h,i)perylene	ND	0.19	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Benzo(k)fluoranthene	ND	0.19	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Benzoic Acid	ND	1.1	1.1	mg/Kg dry	1	V-05, L-04	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Bis(2-chloroethoxy)methane	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Bis(2-chloroethyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.087	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
4-Bromophenylphenylether	ND	0.39	0.096	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Butylbenzylphthalate	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
4-Chloroaniline	ND	0.76	0.19	mg/Kg dry	1	MS-09	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
4-Chloro-3-methylphenol	ND	0.76	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2-Chloronaphthalene	ND	0.39	0.12	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2-Chlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
4-Chlorophenylphenylether	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Chrysene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Dibenzofuran	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Di-n-butylphthalate	ND	0.39	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
1,2-Dichlorobenzene	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
1,3-Dichlorobenzene	ND	0.39	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
1,4-Dichlorobenzene	ND	0.39	0.096	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
3,3-Dichlorobenzidine	ND	0.19	0.18	mg/Kg dry	1	R-06	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2,4-Dichlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Diethylphthalate	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2,4-Dimethylphenol	ND	0.39	0.11	mg/Kg dry	1	R-06	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Dimethylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2,4-Dinitrophenol	ND	0.76	0.39	mg/Kg dry	1	R-05, V-20	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Di-n-octylphthalate	ND	0.77	0.53	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	0.19	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Fluoranthene	ND	0.19	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Fluorene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Hexachlorobenzene	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Hexachlorobutadiene	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	MS-09, R-05, V-05	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Hexachloroethane	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Isophorone	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4 | Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.19	0.075	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2-Methylnaphthalene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
3/4-Methylphenol	ND	0.39	0.22	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Naphthalene	ND	0.19	0.086	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Nitrobenzene	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2-Nitrophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
4-Nitrophenol	ND	0.76	0.68	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
N-Nitrosodiphenylamine	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
N-Nitrosodi-n-propylamine	ND	0.39	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Pentachlorophenol	ND	0.39	0.15	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Phenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
Pyrene	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
1,2,4-Trichlorobenzene	ND	0.39	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR
2,4,6-Trichlorophenol	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	56.0	30-130		7/22/13 23:49
Phenol-d6	53.7	30-130		7/22/13 23:49
Nitrobenzene-d5	59.1	30-130		7/22/13 23:49
2-Fluorobiphenyl	60.4	30-130		7/22/13 23:49
2,4,6-Tribromophenol	84.8	30-130		7/22/13 23:49
p-Terphenyl-d14	77.0	30-130		7/22/13 23:49

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

Project Location: Glue Evaporation Pond
Sample Description:
Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4
Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/15/13	7/22/13 23:49	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4 | Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	76.9	40-140		7/12/13 15:05
o-Terphenyl (OTP)	75.3	40-140		7/12/13 15:05
2-Bromonaphthalene	86.1	40-140		7/12/13 15:05
2-Fluorobiphenyl	91.9	40-140		7/12/13 15:05

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4 | Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.03

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
Unadjusted C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
C9-C10 Aromatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
Benzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
Ethylbenzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
Naphthalene	ND	0.33	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
Toluene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
m+p Xylene	ND	0.13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH
o-Xylene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 20:57	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	102	70-130		7/12/13 20:57
2,5-Dibromotoluene (PID)	99.1	70-130		7/12/13 20:57

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-4 | Sampled: 7/9/2013 11:50

Sample ID: 13G0336-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5 | Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 17:29	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Benzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Bromobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	0.022	mg/Kg dry	1	R-05, V-16	SW-846 8260B	7/15/13	7/15/13 17:29	MFF
n-Butylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
sec-Butylbenzene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
tert-Butylbenzene	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Carbon Tetrachloride	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Chlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Chlorodibromomethane	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Chloroform	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Chloromethane	ND	0.011	0.00097	mg/Kg dry	1	L-04	SW-846 8260B	7/15/13	7/15/13 17:29	MFF
2-Chlorotoluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
4-Chlorotoluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1	L-04	SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,1-Dichloroethane	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00097	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,3-Dichloropropane	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
2,2-Dichloropropane	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,1-Dichloropropene	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Ethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
2-Hexanone (MBK)	ND	0.043	0.012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00097	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 17:29	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5 | Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.021	0.0076	mg/Kg dry	1	R-05	SW-846 8260B	7/15/13	7/15/13 17:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.043	0.0082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Naphthalene	ND	0.0043	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
n-Propylbenzene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Toluene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Trichloroethylene	ND	0.0021	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,2,3-Trichloropropane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Vinyl Acetate	ND	0.011	0.0072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF
o-Xylene	ND	0.0021	0.00075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/15/13 17:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	92.5	70-130		7/15/13 17:29
Toluene-d8	99.1	70-130		7/15/13 17:29
4-Bromofluorobenzene	97.0	70-130		7/15/13 17:29

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

Project Location: Glue Evaporation Pond
Sample Description:
Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5
Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/15/13	7/15/13 17:29	MFF

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5 | Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Acenaphthylene	ND	0.21	0.099	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Benzo(a)anthracene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Benzo(a)pyrene	ND	0.21	0.072	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Benzo(k)fluoranthene	ND	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
4-Chloroaniline	ND	0.80	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
4-Chloro-3-methylphenol	ND	0.80	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Chrysene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
1,2-Dichlorobenzene	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
1,3-Dichlorobenzene	ND	0.41	0.097	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
1,4-Dichlorobenzene	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2,4-Dinitrophenol	ND	0.80	0.41	mg/Kg dry	1	R-05, V-20	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Di-n-octylphthalate	ND	0.81	0.56	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Fluoranthene	ND	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5 | Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.21	0.078	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Naphthalene	ND	0.21	0.090	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
4-Nitrophenol	ND	0.80	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
Pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
1,2,4-Trichlorobenzene	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR
2,4,6-Trichlorophenol	ND	0.41	0.27	mg/Kg dry	1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	62.2	30-130		7/23/13 0:22
Phenol-d6	52.6	30-130		7/23/13 0:22
Nitrobenzene-d5	66.3	30-130		7/23/13 0:22
2-Fluorobiphenyl	63.6	30-130		7/23/13 0:22
2,4,6-Tribromophenol	77.1	30-130		7/23/13 0:22
p-Terphenyl-d14	82.7	30-130		7/23/13 0:22

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

Project Location: Glue Evaporation Pond
Sample Description:
Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5
Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/15/13	7/23/13 0:22	CMR

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5 | Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	79.5	40-140		7/12/13 15:25
o-Terphenyl (OTP)	75.8	40-140		7/12/13 15:25
2-Bromonaphthalene	88.2	40-140		7/12/13 15:25
2-Fluorobiphenyl	95.9	40-140		7/12/13 15:25

con-test® ANALYTICAL LABORATORY

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

Project Location: Glue Evaporation Pond | Sample Description: | Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5 | Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.09

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
Unadjusted C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
C9-C10 Aromatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
Benzene	ND	0.066	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
Ethylbenzene	ND	0.066	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.066	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
Naphthalene	ND	0.33	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
Toluene	ND	0.066	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
m+p Xylene	ND	0.13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH
o-Xylene	ND	0.066	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 21:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	106	70-130		7/12/13 21:33
2,5-Dibromotoluene (PID)	100	70-130		7/12/13 21:33

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

Project Location: Glue Evaporation Pond
Sample Description:
Work Order: 13G0336

Date Received: 7/9/2013

Field Sample #: GEP-5
Sampled: 7/9/2013 12:00

Sample ID: 13G0336-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/16/13	7/17/13 9:35	MLA

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

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0336-01 [GEP-3]	B076523	20.0	2.00	07/11/13
13G0336-02 [GEP-4]	B076523	20.0	2.00	07/11/13
13G0336-03 [GEP-5]	B076523	20.4	2.00	07/11/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0336-01 [GEP-3]	B076643	14.2	17.7	07/12/13
13G0336-02 [GEP-4]	B076643	15.5	17.3	07/12/13
13G0336-03 [GEP-5]	B076643	16.3	17.9	07/12/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0336-01 [GEP-3]	B076845	07/16/13
13G0336-03 [GEP-5]	B076845	07/16/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0336-02 [GEP-4]	B076932	07/17/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0336-01 [GEP-3]	B076751	4.61	10.0	07/15/13
13G0336-02 [GEP-4]	B076751	5.70	10.0	07/15/13
13G0336-03 [GEP-5]	B076751	5.64	10.0	07/15/13

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0336-01 [GEP-3]	B076726	30.0	1.00	07/15/13
13G0336-02 [GEP-4]	B076726	30.5	1.00	07/15/13
13G0336-03 [GEP-5]	B076726	30.1	1.00	07/15/13

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076751 - SW-846 5035										
Blank (B076751-BLK1)				Prepared & Analyzed: 07/15/13						
Acetone	ND	0.10	mg/Kg wet							R-05
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							R-05, V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							L-04
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							R-05
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							R-05
Methylene Chloride	ND	0.020	mg/Kg wet							R-05
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076751 - SW-846 5035												
Blank (B076751-BLK1)				Prepared & Analyzed: 07/15/13								
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Acetate	ND	0.010	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0495*		mg/Kg wet	0.0500		99.0		70-130				
Surrogate: Toluene-d8	*0.0505*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0485*		mg/Kg wet	0.0500		97.1		70-130				
LCS (B076751-BS1)				Prepared & Analyzed: 07/15/13								
Acetone	0.231	0.10	mg/Kg wet	0.200		115		70-160		25	R-05	†
tert-Amyl Methyl Ether (TAME)	0.0241	0.0010	mg/Kg wet	0.0200		120		70-130		25		
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130		25		
Bromobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130		25		
Bromochloromethane	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130		25		
Bromodichloromethane	0.0189	0.0020	mg/Kg wet	0.0200		94.5		70-130		25		
Bromoform	0.0170	0.0020	mg/Kg wet	0.0200		85.0		70-130		25		
Bromomethane	0.0253	0.010	mg/Kg wet	0.0200		127		40-130		25	V-20	†
2-Butanone (MEK)	0.174	0.040	mg/Kg wet	0.200		87.1		70-160		25		†
tert-Butyl Alcohol (TBA)	0.299	0.040	mg/Kg wet	0.200		**149**	*	40-130		25	L-07A, R-05, V-16	†
n-Butylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9		70-130		25		
sec-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130		25		
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8		70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0221	0.0010	mg/Kg wet	0.0200		110		70-130		25		
Carbon Tetrachloride	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130		25		
Chlorobenzene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130		25		
Chlorodibromomethane	0.0189	0.0010	mg/Kg wet	0.0200		94.4		70-130		25		
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		110		70-130		25		
Chloroform	0.0204	0.0040	mg/Kg wet	0.0200		102		70-130		25		
Chloromethane	0.0124	0.010	mg/Kg wet	0.0200		**61.8**	*	70-130		25	L-04	
2-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130		25		
4-Chlorotoluene	0.0223	0.0020	mg/Kg wet	0.0200		112		70-130		25		
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.0200		102		70-130		25		
1,2-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,3-Dichlorobenzene	0.0219	0.0020	mg/Kg wet	0.0200		110		70-130		25		
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.7		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.00722	0.020	mg/Kg wet	0.0200		**36.1**	*	40-160		25	J, L-04	†
1,1-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		95.9		70-130		25		
1,2-Dichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5		70-130		25		
1,1-Dichloroethylene	0.0253	0.0040	mg/Kg wet	0.0200		127		70-130		25		
cis-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130		25		
trans-1,2-Dichloroethylene	0.0297	0.0020	mg/Kg wet	0.0200		**149**	*	70-130		25	L-07A, R-05	
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076751 - SW-846 5035													
LCS (B076751-BS1)				Prepared & Analyzed: 07/15/13									
1,3-Dichloropropane	0.0203	0.0010	mg/Kg wet	0.0200		101		70-130			25		
2,2-Dichloropropane	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130			25		
1,1-Dichloropropene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130			25		
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		99.9		70-130			25		
trans-1,3-Dichloropropene	0.0230	0.0010	mg/Kg wet	0.0200		115		70-130			25		
Diisopropyl Ether (DIPE)	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130			25		
Ethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130			25		
2-Hexanone (MBK)	0.185	0.020	mg/Kg wet	0.200		92.6		70-160			25		†
Isopropylbenzene (Cumene)	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130			25		
p-Isopropyltoluene (p-Cymene)	0.0223	0.0020	mg/Kg wet	0.0200		111		70-130			25		
Methyl tert-Butyl Ether (MTBE)	0.0326	0.0040	mg/Kg wet	0.0200		**163**	*	70-130			25	L-07A, R-05	
Methylene Chloride	0.0321	0.020	mg/Kg wet	0.0200		160		40-160			25	R-05	†
4-Methyl-2-pentanone (MIBK)	0.187	0.020	mg/Kg wet	0.200		93.7		70-160			25		†
Naphthalene	0.0175	0.0040	mg/Kg wet	0.0200		87.6		40-130			25		†
n-Propylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130			25		
Styrene	0.0196	0.0020	mg/Kg wet	0.0200		98.2		70-130			25		
1,1,1,2-Tetrachloroethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8		70-130			25		
1,1,2,2-Tetrachloroethane	0.0198	0.0010	mg/Kg wet	0.0200		99.1		70-130			25		
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130			25		
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130			25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4		70-130			25		
1,2,4-Trichlorobenzene	0.0228	0.0020	mg/Kg wet	0.0200		114		70-130			25		
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130			25		
1,1,2-Trichloroethane	0.0196	0.0020	mg/Kg wet	0.0200		98.1		70-130			25		
Trichloroethylene	0.0177	0.0020	mg/Kg wet	0.0200		88.3		70-130			25		
Trichlorofluoromethane (Freon 11)	0.0219	0.010	mg/Kg wet	0.0200		110		70-130			25		
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130			25		
1,2,4-Trimethylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1		70-130			25		
1,3,5-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130			25		
Vinyl Acetate	0.184	0.010	mg/Kg wet	0.200		92.1		70-130			25		
Vinyl Chloride	0.0143	0.010	mg/Kg wet	0.0200		71.6		40-130			25		†
m+p Xylene	0.0421	0.0040	mg/Kg wet	0.0400		105		70-130			25		
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130			25		
Surrogate: 1,2-Dichloroethane-d4	*0.0481*		mg/Kg wet	0.0500		96.3		70-130					
Surrogate: Toluene-d8	*0.0500*		mg/Kg wet	0.0500		100		70-130					
Surrogate: 4-Bromofluorobenzene	*0.0505*		mg/Kg wet	0.0500		101		70-130					
LCS Dup (B076751-BSD1)				Prepared & Analyzed: 07/15/13									
Acetone	0.179	0.10	mg/Kg wet	0.200		89.5		70-160	**25.3**	*	25	R-05	†
tert-Amyl Methyl Ether (TAME)	0.0248	0.0010	mg/Kg wet	0.0200		124		70-130	3.11		25		
Benzene	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130	0.556		25		
Bromobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	1.38		25		
Bromochloromethane	0.0220	0.0020	mg/Kg wet	0.0200		110		70-130	1.74		25		
Bromodichloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.4		70-130	1.17		25		
Bromoform	0.0169	0.0020	mg/Kg wet	0.0200		84.7		70-130	0.354		25		
Bromomethane	0.0242	0.010	mg/Kg wet	0.0200		121		40-130	4.44		25	V-20	†
2-Butanone (MEK)	0.172	0.040	mg/Kg wet	0.200		86.1		70-160	1.15		25		†
tert-Butyl Alcohol (TBA)	0.152	0.040	mg/Kg wet	0.200		76.2		40-130	**64.9**	*	25	R-05, V-16	†
n-Butylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.2		70-130	1.83		25		
sec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	2.65		25		
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-160	0.101		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130	1.46		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076751 - SW-846 5035													
LCS Dup (B076751-BSD1)				Prepared & Analyzed: 07/15/13									
Carbon Tetrachloride	0.0200	0.0020	mg/Kg wet	0.0200		99.8		70-130	6.21		25		
Chlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	0.633		25		
Chlorodibromomethane	0.0192	0.0010	mg/Kg wet	0.0200		95.8		70-130	1.47		25		
Chloroethane	0.0217	0.020	mg/Kg wet	0.0200		109		70-130	1.46		25		
Chloroform	0.0205	0.0040	mg/Kg wet	0.0200		102		70-130	0.587		25		
Chloromethane	0.0130	0.010	mg/Kg wet	0.0200		**64.8**	*	70-130	4.74		25	L-04	
2-Chlorotoluene	0.0223	0.0020	mg/Kg wet	0.0200		111		70-130	0.631		25		
4-Chlorotoluene	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	1.78		25		
1,2-Dibromoethane (EDB)	0.0211	0.0010	mg/Kg wet	0.0200		106		70-130	3.77		25		
1,2-Dichlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130	2.20		25		
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	4.38		25		
1,4-Dichlorobenzene	0.0185	0.0020	mg/Kg wet	0.0200		92.6		70-130	5.36		25		
Dichlorodifluoromethane (Freon 12)	0.00752	0.020	mg/Kg wet	0.0200		**37.6**	*	40-160	4.07		25	J, L-04	†
1,1-Dichloroethane	0.0189	0.0020	mg/Kg wet	0.0200		94.4		70-130	1.58		25		
1,2-Dichloroethane	0.0193	0.0020	mg/Kg wet	0.0200		96.6		70-130	5.42		25		
1,1-Dichloroethylene	0.0224	0.0040	mg/Kg wet	0.0200		112		70-130	12.2		25		
cis-1,2-Dichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		96.8		70-130	0.206		25		
trans-1,2-Dichloroethylene	0.0183	0.0020	mg/Kg wet	0.0200		91.6		70-130	**47.5**	*	25	R-05	
1,2-Dichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130	1.99		25		
1,3-Dichloropropane	0.0209	0.0010	mg/Kg wet	0.0200		105		70-130	3.20		25		
2,2-Dichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130	2.97		25		
1,1-Dichloropropene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	0.476		25		
cis-1,3-Dichloropropene	0.0196	0.0010	mg/Kg wet	0.0200		98.1		70-130	1.82		25		
trans-1,3-Dichloropropene	0.0220	0.0010	mg/Kg wet	0.0200		110		70-130	4.27		25		
Diisopropyl Ether (DIPE)	0.0208	0.0010	mg/Kg wet	0.0200		104		70-130	0.676		25		
Ethylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	1.71		25		
2-Hexanone (MBK)	0.176	0.020	mg/Kg wet	0.200		88.2		70-160	4.78		25		†
Isopropylbenzene (Cumene)	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	0.196		25		
p-Isopropyltoluene (p-Cymene)	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130	3.29		25		
Methyl tert-Butyl Ether (MTBE)	0.0212	0.0040	mg/Kg wet	0.0200		106		70-130	**42.5**	*	25	R-05	
Methylene Chloride	0.0180	0.020	mg/Kg wet	0.0200		89.8		40-160	**56.5**	*	25	J, R-05	†
4-Methyl-2-pentanone (MIBK)	0.185	0.020	mg/Kg wet	0.200		92.3		70-160	1.49		25		†
Naphthalene	0.0171	0.0040	mg/Kg wet	0.0200		85.4		40-130	2.54		25		†
n-Propylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112		70-130	0.266		25		
Styrene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	3.21		25		
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.2		70-130	2.45		25		
1,1,2,2-Tetrachloroethane	0.0201	0.0010	mg/Kg wet	0.0200		100		70-130	1.30		25		
Tetrachloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130	1.48		25		
Toluene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	1.50		25		
1,2,3-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0		70-130	2.66		25		
1,2,4-Trichlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	3.29		25		
1,1,1-Trichloroethane	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	1.36		25		
1,1,2-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130	0.610		25		
Trichloroethylene	0.0179	0.0020	mg/Kg wet	0.0200		89.3		70-130	1.13		25		
Trichlorofluoromethane (Freon 11)	0.0236	0.010	mg/Kg wet	0.0200		118		70-130	7.64		25		
1,2,3-Trichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	0.0990		25		
1,2,4-Trimethylbenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4		70-130	1.40		25		
1,3,5-Trimethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	0.393		25		
Vinyl Acetate	0.182	0.010	mg/Kg wet	0.200		90.8		70-130	1.43		25		
Vinyl Chloride	0.0167	0.010	mg/Kg wet	0.0200		83.4		40-130	15.2		25		†
m+p Xylene	0.0423	0.0040	mg/Kg wet	0.0400		106		70-130	0.569		25		
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	0.195		25		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076751 - SW-846 5035										
LCS Dup (B076751-BSD1)				Prepared & Analyzed: 07/15/13						
Surrogate: 1,2-Dichloroethane-d4	*0.0467*		mg/Kg wet	0.0500		93.4	70-130			
Surrogate: Toluene-d8	*0.0511*		mg/Kg wet	0.0500		102	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0510*		mg/Kg wet	0.0500		102	70-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076751 - SW-846 5035										
Blank (B076751-BLK1)				Prepared & Analyzed: 07/15/13						
Tentatively Identified Compounds	0.0		mg/Kg wet							
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							V-20
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							R-05
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							V-05
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05
Di-n-octylphthalate	ND	0.67	mg/Kg wet							V-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							R-05
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							R-05, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546												
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachlorophenol	ND	0.34	mg/Kg wet								R-05	
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*5.33*		mg/Kg wet	6.67		80.0		30-130				
Surrogate: Phenol-d6	*5.58*		mg/Kg wet	6.67		83.6		30-130				
Surrogate: Nitrobenzene-d5	*3.00*		mg/Kg wet	3.33		89.9		30-130				
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.43*		mg/Kg wet	6.67		111		30-130				
Surrogate: p-Terphenyl-d14	*4.05*		mg/Kg wet	3.33		122		30-130				
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Acenaphthene	1.66	0.17	mg/Kg wet	1.67		99.8		40-140		30		
Acenaphthylene	1.70	0.17	mg/Kg wet	1.67		102		40-140		30		
Anthracene	1.79	0.17	mg/Kg wet	1.67		107		40-140		30		
Benzo(a)anthracene	1.91	0.17	mg/Kg wet	1.67		115		40-140		30		
Benzo(a)pyrene	1.86	0.17	mg/Kg wet	1.67		112		40-140		30		
Benzo(b)fluoranthene	1.60	0.17	mg/Kg wet	1.67		95.8		40-140		30	V-05	
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.67		98.2		40-140		30	V-06	
Benzo(k)fluoranthene	1.68	0.17	mg/Kg wet	1.67		101		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	1.63	0.34	mg/Kg wet	1.67		97.5		40-140		30		
Bis(2-chloroethyl)ether	1.56	0.34	mg/Kg wet	1.67		93.6		40-140		30		
Bis(2-chloroisopropyl)ether	1.27	0.34	mg/Kg wet	1.67		76.4		40-140		30		
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.67		98.2		40-140		30		
4-Bromophenylphenylether	1.98	0.34	mg/Kg wet	1.67		119		40-140		30		
Butylbenzylphthalate	1.91	0.34	mg/Kg wet	1.67		115		40-140		30		
4-Chloroaniline	0.842	0.66	mg/Kg wet	1.67		50.5		10-140		30		†
4-Chloro-3-methylphenol	1.66	0.66	mg/Kg wet	1.67		99.8		30-130		30		
2-Chloronaphthalene	1.68	0.34	mg/Kg wet	1.67		101		40-140		30	R-05	
2-Chlorophenol	1.47	0.34	mg/Kg wet	1.67		88.2		30-130		30		
4-Chlorophenylphenylether	1.52	0.34	mg/Kg wet	1.67		91.2		40-140		30		
Chrysene	1.83	0.17	mg/Kg wet	1.67		110		40-140		30		
Dibenz(a,h)anthracene	1.78	0.17	mg/Kg wet	1.67		107		40-140		30		
Dibenzofuran	1.61	0.34	mg/Kg wet	1.67		96.5		40-140		30		
Di-n-butylphthalate	1.94	0.34	mg/Kg wet	1.67		116		40-140		30	V-05	
1,2-Dichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2		40-140		30		
1,3-Dichlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.7		40-140		30		
1,4-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.9		40-140		30		
3,3-Dichlorobenzidine	1.54	0.17	mg/Kg wet	1.67		92.3		20-140		50		†
2,4-Dichlorophenol	1.72	0.34	mg/Kg wet	1.67		103		30-130		30		
Diethylphthalate	1.77	0.34	mg/Kg wet	1.67		106		40-140		30		
2,4-Dimethylphenol	1.75	0.34	mg/Kg wet	1.67		105		30-130		30		
Dimethylphthalate	1.78	0.34	mg/Kg wet	1.67		107		40-140		30		
4,6-Dinitro-2-methylphenol	2.02	0.34	mg/Kg wet	1.67		121		30-130		30		
2,4-Dinitrophenol	1.60	0.66	mg/Kg wet	1.67		96.3		30-130		30	R-05	
Di-n-octylphthalate	1.60	0.67	mg/Kg wet	1.67		96.2		40-140		30	V-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.88	0.34	mg/Kg wet	1.67		113		40-140		30	R-05	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546												
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Fluoranthene	2.08	0.17	mg/Kg wet	1.67		125		40-140		30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.2		40-140		30		
Hexachlorobenzene	2.02	0.34	mg/Kg wet	1.67		121		40-140		30		
Hexachlorobutadiene	1.51	0.34	mg/Kg wet	1.67		90.5		40-140		30		
Hexachlorocyclopentadiene	0.767	0.34	mg/Kg wet	1.67		46.0		40-140		30	R-05, V-05	
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		74.9		40-140		30		
Indeno(1,2,3-cd)pyrene	1.74	0.17	mg/Kg wet	1.67		105		40-140		30		
Isophorone	1.64	0.34	mg/Kg wet	1.67		98.5		40-140		30		
1-Methylnaphthalene	1.49	0.17	mg/Kg wet	1.67		89.7		40-140		30		
2-Methylnaphthalene	1.41	0.17	mg/Kg wet	1.67		84.7		40-140		30		
2-Methylphenol	1.54	0.34	mg/Kg wet	1.67		92.2		30-130		30		
3/4-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.2		30-130		30		
Naphthalene	1.50	0.17	mg/Kg wet	1.67		89.8		40-140		30		
Nitrobenzene	1.50	0.34	mg/Kg wet	1.67		89.8		40-140		30		
2-Nitrophenol	1.81	0.34	mg/Kg wet	1.67		108		30-130		30		
4-Nitrophenol	1.19	0.66	mg/Kg wet	1.67		71.7		30-130		50	V-05	
N-Nitrosodiphenylamine	2.27	0.34	mg/Kg wet	1.67		136		40-140		30		
N-Nitrosodi-n-propylamine	1.22	0.34	mg/Kg wet	1.67		73.5		40-140		30		
Pentachlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7		30-130		30	R-05	
Phenanthrene	1.89	0.17	mg/Kg wet	1.67		114		40-140		30		
Phenol	1.45	0.34	mg/Kg wet	1.67		86.9		30-130		30		
Pyrene	1.87	0.17	mg/Kg wet	1.67		112		40-140		30		
1,2,4-Trichlorobenzene	1.59	0.34	mg/Kg wet	1.67		95.2		40-140		30		
2,4,6-Trichlorophenol	1.82	0.34	mg/Kg wet	1.67		109		30-130		30		
Surrogate: 2-Fluorophenol	*5.71*		mg/Kg wet	6.67		85.7		30-130				
Surrogate: Phenol-d6	*5.50*		mg/Kg wet	6.67		82.4		30-130				
Surrogate: Nitrobenzene-d5	*3.10*		mg/Kg wet	3.33		92.9		30-130				
Surrogate: 2-Fluorobiphenyl	*3.04*		mg/Kg wet	3.33		91.3		30-130				
Surrogate: 2,4,6-Tribromophenol	*8.87*		mg/Kg wet	6.67		**133**	*	30-130			S-07	
Surrogate: p-Terphenyl-d14	*3.92*		mg/Kg wet	3.33		118		30-130				
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Acenaphthene	1.35	0.17	mg/Kg wet	1.67		80.7		40-140	21.2	30		
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.6		40-140	23.4	30		
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.1		40-140	23.0	30		
Benzo(a)anthracene	1.51	0.17	mg/Kg wet	1.67		90.7		40-140	23.5	30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.2		40-140	23.4	30		
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1		40-140	21.7	30	V-05	
Benzo(g,h,i)perylene	1.59	0.17	mg/Kg wet	1.67		95.4		40-140	2.87	30	V-06	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8		40-140	24.6	30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.29	0.34	mg/Kg wet	1.67		77.4		40-140	23.0	30		
Bis(2-chloroethyl)ether	1.17	0.34	mg/Kg wet	1.67		70.3		40-140	28.4	30		
Bis(2-chloroisopropyl)ether	0.995	0.34	mg/Kg wet	1.67		59.7		40-140	24.5	30		
Bis(2-Ethylhexyl)phthalate	1.33	0.34	mg/Kg wet	1.67		80.0		40-140	20.4	30		
4-Bromophenylphenylether	1.56	0.34	mg/Kg wet	1.67		93.7		40-140	23.7	30		
Butylbenzylphthalate	1.53	0.34	mg/Kg wet	1.67		91.7		40-140	22.4	30		
4-Chloroaniline	0.663	0.66	mg/Kg wet	1.67		39.8		10-140	23.8	30		†
4-Chloro-3-methylphenol	1.35	0.66	mg/Kg wet	1.67		80.9		30-130	20.8	30		
2-Chloronaphthalene	1.24	0.34	mg/Kg wet	1.67		74.3		40-140	**30.2**	* 30	R-05	
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.2		30-130	25.5	30		
4-Chlorophenylphenylether	1.25	0.34	mg/Kg wet	1.67		74.9		40-140	19.7	30		

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076726 - SW-846 3546													
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13									
Chrysene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	21.3		30		
Dibenz(a,h)anthracene	1.59	0.17	mg/Kg wet	1.67		95.5		40-140	11.2		30		
Dibenzofuran	1.30	0.34	mg/Kg wet	1.67		78.2		40-140	20.9		30		
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		93.1		40-140	22.1		30	V-05	
1,2-Dichlorobenzene	0.994	0.34	mg/Kg wet	1.67		59.6		40-140	25.6		30		
1,3-Dichlorobenzene	0.970	0.34	mg/Kg wet	1.67		58.2		40-140	27.4		30		
1,4-Dichlorobenzene	0.966	0.34	mg/Kg wet	1.67		57.9		40-140	26.8		30		
3,3-Dichlorobenzidine	1.20	0.17	mg/Kg wet	1.67		72.2		20-140	24.5		50		† ‡
2,4-Dichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.6		30-130	23.3		30		
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		83.7		40-140	23.5		30		
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.5		30-130	25.4		30		
Dimethylphthalate	1.42	0.34	mg/Kg wet	1.67		85.1		40-140	22.5		30		
4,6-Dinitro-2-methylphenol	1.58	0.34	mg/Kg wet	1.67		95.0		30-130	24.0		30		
2,4-Dinitrophenol	1.04	0.66	mg/Kg wet	1.67		62.5		30-130	**42.6**	*	30	R-05	
Di-n-octylphthalate	1.25	0.67	mg/Kg wet	1.67		75.1		40-140	24.7		30	V-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.32	0.34	mg/Kg wet	1.67		79.3		40-140	**35.1**	*	30	R-05	
Fluoranthene	1.65	0.17	mg/Kg wet	1.67		99.1		40-140	22.9		30		
Fluorene	1.25	0.17	mg/Kg wet	1.67		75.1		40-140	18.2		30		
Hexachlorobenzene	1.60	0.34	mg/Kg wet	1.67		96.2		40-140	23.0		30		
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		70.5		40-140	24.9		30		
Hexachlorocyclopentadiene	0.566	0.34	mg/Kg wet	1.67		**33.9**	*	40-140	**30.2**	*	30	L-07A, V-05	
Hexachloroethane	0.957	0.34	mg/Kg wet	1.67		57.4		40-140	26.3		30		
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.2		40-140	9.49		30		
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.0		40-140	24.5		30		
1-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8		40-140	22.1		30		
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140	22.0		30		
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8		30-130	24.9		30		
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.7		30-130	24.9		30		
Naphthalene	1.17	0.17	mg/Kg wet	1.67		70.5		40-140	24.1		30		
Nitrobenzene	1.17	0.34	mg/Kg wet	1.67		70.5		40-140	24.1		30		
2-Nitrophenol	1.42	0.34	mg/Kg wet	1.67		85.3		30-130	23.9		30		
4-Nitrophenol	0.994	0.66	mg/Kg wet	1.67		59.7		30-130	18.3		50	V-05	‡
N-Nitrosodiphenylamine	1.86	0.34	mg/Kg wet	1.67		112		40-140	19.7		30		
N-Nitrosodi-n-propylamine	0.972	0.34	mg/Kg wet	1.67		58.3		40-140	23.1		30		
Pentachlorophenol	0.969	0.34	mg/Kg wet	1.67		58.1		30-130	**44.8**	*	30	R-05	
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.7		40-140	20.2		30		
Phenol	1.14	0.34	mg/Kg wet	1.67		68.6		30-130	23.4		30		
Pyrene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	23.5		30		
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.7		40-140	25.5		30		
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.7		30-130	24.3		30		
Surrogate: 2-Fluorophenol	*4.40*		mg/Kg wet	6.67		66.0		30-130					
Surrogate: Phenol-d6	*4.36*		mg/Kg wet	6.67		65.4		30-130					
Surrogate: Nitrobenzene-d5	*2.40*		mg/Kg wet	3.33		72.1		30-130					
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.2		30-130					
Surrogate: 2,4,6-Tribromophenol	*6.73*		mg/Kg wet	6.67		101		30-130					
Surrogate: p-Terphenyl-d14	*3.05*		mg/Kg wet	3.33		91.6		30-130					

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546											
Matrix Spike (B076726-MS1)		**Source: 13G0336-02**		Prepared: 07/15/13 Analyzed: 07/23/13							
Acenaphthene	1.16	0.20	mg/Kg dry	1.94	ND	59.9		40-140		30	
Acenaphthylene	1.17	0.20	mg/Kg dry	1.94	ND	60.4		40-140		30	
Anthracene	1.27	0.20	mg/Kg dry	1.94	ND	65.6		40-140		30	
Benzo(a)anthracene	1.27	0.20	mg/Kg dry	1.94	ND	65.5		40-140		30	
Benzo(a)pyrene	1.28	0.20	mg/Kg dry	1.94	ND	65.9		40-140		30	
Benzo(b)fluoranthene	1.12	0.20	mg/Kg dry	1.94	ND	57.7		40-140		30	V-05
Benzo(g,h,i)perylene	0.931	0.20	mg/Kg dry	1.94	ND	48.1		40-140		30	
Benzo(k)fluoranthene	1.35	0.20	mg/Kg dry	1.94	ND	70.0		40-140		30	
Benzoic Acid	ND	1.2	mg/Kg dry	1.94	ND		*	40-140		30	V-05
Bis(2-chloroethoxy)methane	1.21	0.39	mg/Kg dry	1.94	ND	62.7		40-140		30	
Bis(2-chloroethyl)ether	1.05	0.39	mg/Kg dry	1.94	ND	54.2		40-140		30	
Bis(2-chloroisopropyl)ether	0.890	0.39	mg/Kg dry	1.94	ND	46.0		40-140		30	
Bis(2-Ethylhexyl)phthalate	1.14	0.39	mg/Kg dry	1.94	ND	59.1		40-140		30	
4-Bromophenylphenylether	1.34	0.39	mg/Kg dry	1.94	ND	69.4		40-140		30	
Butylbenzylphthalate	1.29	0.39	mg/Kg dry	1.94	ND	66.4		40-140		30	
4-Chloroaniline	0.553	0.77	mg/Kg dry	1.94	ND	**28.6**	*	40-140		30	J, MS-09
4-Chloro-3-methylphenol	1.13	0.77	mg/Kg dry	1.94	ND	58.5		30-130		30	
2-Chloronaphthalene	1.12	0.39	mg/Kg dry	1.94	ND	57.9		40-140		30	
2-Chlorophenol	0.975	0.39	mg/Kg dry	1.94	ND	50.3		30-130		30	
4-Chlorophenylphenylether	1.10	0.39	mg/Kg dry	1.94	ND	56.6		40-140		30	
Chrysene	1.33	0.20	mg/Kg dry	1.94	ND	68.7		40-140		30	
Dibenz(a,h)anthracene	0.963	0.20	mg/Kg dry	1.94	ND	49.7		40-140		30	
Dibenzofuran	1.12	0.39	mg/Kg dry	1.94	ND	58.0		40-140		30	
Di-n-butylphthalate	1.26	0.39	mg/Kg dry	1.94	ND	65.3		40-140		30	V-05
1,2-Dichlorobenzene	0.872	0.39	mg/Kg dry	1.94	ND	45.0		40-140		30	
1,3-Dichlorobenzene	0.833	0.39	mg/Kg dry	1.94	ND	43.0		40-140		30	
1,4-Dichlorobenzene	0.839	0.39	mg/Kg dry	1.94	ND	43.3		40-140		30	
3,3-Dichlorobenzidine	0.881	0.20	mg/Kg dry	1.94	ND	45.5		40-140		30	R-06
2,4-Dichlorophenol	1.16	0.39	mg/Kg dry	1.94	ND	60.0		30-130		30	
Diethylphthalate	1.15	0.39	mg/Kg dry	1.94	ND	59.5		40-140		30	
2,4-Dimethylphenol	1.26	0.39	mg/Kg dry	1.94	ND	65.3		30-130		30	R-06
Dimethylphthalate	1.21	0.39	mg/Kg dry	1.94	ND	62.7		40-140		30	
4,6-Dinitro-2-methylphenol	1.28	0.39	mg/Kg dry	1.94	ND	66.0		30-130		30	
2,4-Dinitrophenol	1.19	0.77	mg/Kg dry	1.94	ND	61.7		30-130		30	V-06
Di-n-octylphthalate	1.21	0.78	mg/Kg dry	1.94	ND	62.4		40-140		30	
1,2-Diphenylhydrazine (as Azobenzene)	1.32	0.39	mg/Kg dry	1.94	ND	68.4		40-140		30	
Fluoranthene	1.37	0.20	mg/Kg dry	1.94	ND	70.7		40-140		30	
Fluorene	1.07	0.20	mg/Kg dry	1.94	ND	55.5		40-140		30	
Hexachlorobenzene	1.35	0.39	mg/Kg dry	1.94	ND	69.8		40-140		30	
Hexachlorobutadiene	1.03	0.39	mg/Kg dry	1.94	ND	53.4		40-140		30	
Hexachlorocyclopentadiene	0.449	0.39	mg/Kg dry	1.94	ND	**23.2**	*	30-130		30	MS-09, V-05
Hexachloroethane	0.836	0.39	mg/Kg dry	1.94	ND	43.2		40-140		30	
Indeno(1,2,3-cd)pyrene	0.969	0.20	mg/Kg dry	1.94	ND	50.0		40-140		30	
Isophorone	1.13	0.39	mg/Kg dry	1.94	ND	58.3		40-140		30	
1-Methylnaphthalene	1.05	0.20	mg/Kg dry	1.94	ND	54.1		40-140		30	
2-Methylnaphthalene	1.01	0.20	mg/Kg dry	1.94	ND	52.2		40-140		30	
2-Methylphenol	0.999	0.39	mg/Kg dry	1.94	ND	51.6		30-130		30	
3/4-Methylphenol	0.960	0.39	mg/Kg dry	1.94	ND	49.6		30-130		30	
Naphthalene	1.03	0.20	mg/Kg dry	1.94	ND	53.0		40-140		30	
Nitrobenzene	1.05	0.39	mg/Kg dry	1.94	ND	54.4		40-140		30	
2-Nitrophenol	1.20	0.39	mg/Kg dry	1.94	ND	62.1		30-130		30	
4-Nitrophenol	0.988	0.77	mg/Kg dry	1.94	ND	51.0		30-130		30	V-05

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B076726 - SW-846 3546												
Matrix Spike (B076726-MS1)		**Source: 13G0336-02**		Prepared: 07/15/13 Analyzed: 07/23/13								
N-Nitrosodiphenylamine	1.57	0.39	mg/Kg dry	1.94	ND	80.8		40-140			30	
N-Nitrosodi-n-propylamine	0.866	0.39	mg/Kg dry	1.94	ND	44.7		40-140			30	V-05
Pentachlorophenol	0.876	0.39	mg/Kg dry	1.94	ND	45.3		30-130			30	
Phenanthrene	1.27	0.20	mg/Kg dry	1.94	ND	65.6		40-140			30	
Phenol	0.857	0.39	mg/Kg dry	1.94	ND	44.3		30-130			30	
Pyrene	1.38	0.20	mg/Kg dry	1.94	ND	71.1		40-140			30	
1,2,4-Trichlorobenzene	1.06	0.39	mg/Kg dry	1.94	ND	54.9		40-140			30	
2,4,6-Trichlorophenol	1.18	0.39	mg/Kg dry	1.94	ND	60.7		30-130			30	
Surrogate: 2-Fluorophenol	*4.00*		mg/Kg dry	7.74		51.6		30-130				
Surrogate: Phenol-d6	*3.71*		mg/Kg dry	7.74		47.9		30-130				
Surrogate: Nitrobenzene-d5	*2.08*		mg/Kg dry	3.87		53.8		30-130				
Surrogate: 2-Fluorobiphenyl	*2.19*		mg/Kg dry	3.87		56.6		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.82*		mg/Kg dry	7.74		75.2		30-130				
Surrogate: p-Terphenyl-d14	*2.97*		mg/Kg dry	3.87		76.8		30-130				
Matrix Spike Dup (B076726-MSD1)		**Source: 13G0336-02**		Prepared: 07/15/13 Analyzed: 07/23/13								
Acenaphthene	1.11	0.20	mg/Kg dry	1.94	ND	57.4		40-140	4.16		30	
Acenaphthylene	1.09	0.20	mg/Kg dry	1.94	ND	56.3		40-140	7.06		30	
Anthracene	1.19	0.20	mg/Kg dry	1.94	ND	61.6		40-140	6.32		30	
Benzo(a)anthracene	1.18	0.20	mg/Kg dry	1.94	ND	61.0		40-140	7.05		30	
Benzo(a)pyrene	1.13	0.20	mg/Kg dry	1.94	ND	58.5		40-140	11.9		30	
Benzo(b)fluoranthene	1.06	0.20	mg/Kg dry	1.94	ND	54.9		40-140	4.90		30	V-05
Benzo(g,h,i)perylene	0.780	0.20	mg/Kg dry	1.94	ND	40.3		40-140	17.7		30	
Benzo(k)fluoranthene	1.23	0.20	mg/Kg dry	1.94	ND	63.6		40-140	9.59		30	
Benzoic Acid	ND	1.2	mg/Kg dry	1.94	ND		*	40-140			30	V-05
Bis(2-chloroethoxy)methane	1.05	0.39	mg/Kg dry	1.94	ND	54.2		40-140	14.7		30	
Bis(2-chloroethyl)ether	0.953	0.39	mg/Kg dry	1.94	ND	49.2		40-140	9.59		30	
Bis(2-chloroisopropyl)ether	0.863	0.39	mg/Kg dry	1.94	ND	44.6		40-140	3.14		30	
Bis(2-Ethylhexyl)phthalate	1.11	0.39	mg/Kg dry	1.94	ND	57.1		40-140	3.51		30	
4-Bromophenylphenylether	1.27	0.39	mg/Kg dry	1.94	ND	65.7		40-140	5.42		30	
Butylbenzylphthalate	1.20	0.39	mg/Kg dry	1.94	ND	62.0		40-140	6.82		30	
4-Chloroaniline	0.584	0.77	mg/Kg dry	1.94	ND	**30.1**	*	40-140	5.31		30	J, MS-09
4-Chloro-3-methylphenol	1.05	0.77	mg/Kg dry	1.94	ND	54.4		30-130	7.22		30	
2-Chloronaphthalene	0.882	0.39	mg/Kg dry	1.94	ND	45.6		40-140	23.8		30	
2-Chlorophenol	0.899	0.39	mg/Kg dry	1.94	ND	46.4		30-130	8.06		30	
4-Chlorophenylphenylether	1.05	0.39	mg/Kg dry	1.94	ND	54.5		40-140	3.82		30	
Chrysene	1.25	0.20	mg/Kg dry	1.94	ND	64.4		40-140	6.46		30	
Dibenz(a,h)anthracene	0.811	0.20	mg/Kg dry	1.94	ND	41.9		40-140	17.1		30	
Dibenzofuran	1.07	0.39	mg/Kg dry	1.94	ND	55.0		40-140	5.31		30	
Di-n-butylphthalate	1.20	0.39	mg/Kg dry	1.94	ND	62.1		40-140	4.93		30	V-05
1,2-Dichlorobenzene	0.838	0.39	mg/Kg dry	1.94	ND	43.3		40-140	3.94		30	
1,3-Dichlorobenzene	0.821	0.39	mg/Kg dry	1.94	ND	42.4		40-140	1.50		30	
1,4-Dichlorobenzene	0.823	0.39	mg/Kg dry	1.94	ND	42.5		40-140	1.91		30	
3,3-Dichlorobenzidine	0.323	0.20	mg/Kg dry	1.94	ND	**16.7**	*	40-140	**92.7**	*	30	MS-23
2,4-Dichlorophenol	1.03	0.39	mg/Kg dry	1.94	ND	53.2		30-130	12.0		30	
Diethylphthalate	1.12	0.39	mg/Kg dry	1.94	ND	58.1		40-140	2.52		30	
2,4-Dimethylphenol	0.915	0.39	mg/Kg dry	1.94	ND	47.3		30-130	**32.0**	*	30	R-06
Dimethylphthalate	1.16	0.39	mg/Kg dry	1.94	ND	60.1		40-140	4.27		30	
4,6-Dinitro-2-methylphenol	1.20	0.39	mg/Kg dry	1.94	ND	62.2		30-130	6.02		30	
2,4-Dinitrophenol	1.21	0.77	mg/Kg dry	1.94	ND	62.3		30-130	0.904		30	V-06
Di-n-octylphthalate	1.18	0.78	mg/Kg dry	1.94	ND	61.2		40-140	2.04		30	
1,2-Diphenylhydrazine (as Azobenzene)	1.24	0.39	mg/Kg dry	1.94	ND	64.1		40-140	6.49		30	

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546											
Matrix Spike Dup (B076726-MSD1)		**Source: 13G0336-02**		Prepared: 07/15/13 Analyzed: 07/23/13							
Fluoranthene	1.31	0.20	mg/Kg dry	1.94	ND	67.6		40-140	4.54	30	
Fluorene	1.05	0.20	mg/Kg dry	1.94	ND	54.2		40-140	2.30	30	
Hexachlorobenzene	1.29	0.39	mg/Kg dry	1.94	ND	66.6		40-140	4.66	30	
Hexachlorobutadiene	0.977	0.39	mg/Kg dry	1.94	ND	50.5		40-140	5.55	30	
Hexachlorocyclopentadiene	0.365	0.39	mg/Kg dry	1.94	ND	**18.9**	*	30-130	20.6	30	J, MS-09, V-05
Hexachloroethane	0.819	0.39	mg/Kg dry	1.94	ND	42.3		40-140	2.11	30	
Indeno(1,2,3-cd)pyrene	0.816	0.20	mg/Kg dry	1.94	ND	42.1		40-140	17.1	30	
Isophorone	1.08	0.39	mg/Kg dry	1.94	ND	55.8		40-140	4.42	30	
1-Methylnaphthalene	0.987	0.20	mg/Kg dry	1.94	ND	51.0		40-140	5.94	30	
2-Methylnaphthalene	0.959	0.20	mg/Kg dry	1.94	ND	49.5		40-140	5.27	30	
2-Methylphenol	0.851	0.39	mg/Kg dry	1.94	ND	43.9		30-130	16.0	30	
3/4-Methylphenol	0.832	0.39	mg/Kg dry	1.94	ND	43.0		30-130	14.3	30	
Naphthalene	0.987	0.20	mg/Kg dry	1.94	ND	51.0		40-140	3.88	30	
Nitrobenzene	0.997	0.39	mg/Kg dry	1.94	ND	51.5		40-140	5.48	30	
2-Nitrophenol	1.08	0.39	mg/Kg dry	1.94	ND	55.9		30-130	10.5	30	
4-Nitrophenol	1.09	0.77	mg/Kg dry	1.94	ND	56.2		30-130	9.55	30	V-05
N-Nitrosodiphenylamine	1.31	0.39	mg/Kg dry	1.94	ND	67.6		40-140	17.9	30	
N-Nitrosodi-n-propylamine	0.838	0.39	mg/Kg dry	1.94	ND	43.3		40-140	3.32	30	V-05
Pentachlorophenol	0.773	0.39	mg/Kg dry	1.94	ND	39.9		30-130	12.5	30	
Phenanthrene	1.22	0.20	mg/Kg dry	1.94	ND	63.2		40-140	3.79	30	
Phenol	0.802	0.39	mg/Kg dry	1.94	ND	41.4		30-130	6.63	30	
Pyrene	1.32	0.20	mg/Kg dry	1.94	ND	68.1		40-140	4.25	30	
1,2,4-Trichlorobenzene	1.01	0.39	mg/Kg dry	1.94	ND	52.1		40-140	5.31	30	
2,4,6-Trichlorophenol	1.01	0.39	mg/Kg dry	1.94	ND	52.4		30-130	14.8	30	
Surrogate: 2-Fluorophenol	*3.65*		mg/Kg dry	7.74		47.2		30-130			
Surrogate: Phenol-d6	*3.34*		mg/Kg dry	7.74		43.1		30-130			
Surrogate: Nitrobenzene-d5	*1.95*		mg/Kg dry	3.87		50.3		30-130			
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/Kg dry	3.87		53.4		30-130			
Surrogate: 2,4,6-Tribromophenol	*4.81*		mg/Kg dry	7.74		62.1		30-130			
Surrogate: p-Terphenyl-d14	*2.79*		mg/Kg dry	3.87		72.0		30-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076523 - SW-846 3546											
Blank (B076523-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13							
C9-C18 Aliphatics	ND	10	mg/Kg wet								L-04
C19-C36 Aliphatics	ND	10	mg/Kg wet								
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								
Phenanthrene	ND	0.10	mg/Kg wet								
Pyrene	ND	0.10	mg/Kg wet								
Surrogate: Chlorooctadecane (COD)	*3.48*		mg/Kg wet	4.99		69.7		40-140			
Surrogate: o-Terphenyl (OTP)	*4.11*		mg/Kg wet	5.00		82.2		40-140			
Surrogate: 2-Bromonaphthalene	*4.75*		mg/Kg wet	5.00		95.0		40-140			
Surrogate: 2-Fluorobiphenyl	*5.14*		mg/Kg wet	5.00		103		40-140			
LCS (B076523-BS1)				Prepared: 07/11/13 Analyzed: 07/17/13							
Acenaphthene	3.23	0.10	mg/Kg wet	5.00		64.6		40-140			
Acenaphthylene	2.99	0.10	mg/Kg wet	5.00		59.7		40-140			
Anthracene	3.58	0.10	mg/Kg wet	5.00		71.5		40-140			
Benzo(a)anthracene	3.70	0.10	mg/Kg wet	5.00		74.0		40-140			
Benzo(a)pyrene	3.54	0.10	mg/Kg wet	5.00		70.7		40-140			
Benzo(b)fluoranthene	3.68	0.10	mg/Kg wet	5.00		73.5		40-140			
Benzo(g,h,i)perylene	3.72	0.10	mg/Kg wet	5.00		74.4		40-140			
Benzo(k)fluoranthene	3.64	0.10	mg/Kg wet	5.00		72.9		40-140			
Chrysene	3.49	0.10	mg/Kg wet	5.00		69.7		40-140			
Dibenz(a,h)anthracene	3.75	0.10	mg/Kg wet	5.00		75.1		40-140			
Fluoranthene	3.62	0.10	mg/Kg wet	5.00		72.4		40-140			
Fluorene	3.33	0.10	mg/Kg wet	5.00		66.5		40-140			
Indeno(1,2,3-cd)pyrene	3.80	0.10	mg/Kg wet	5.00		76.1		40-140			
2-Methylnaphthalene	2.73	0.10	mg/Kg wet	5.00		54.7		40-140			
Naphthalene	2.37	0.10	mg/Kg wet	5.00		47.4		40-140			
Phenanthrene	3.54	0.10	mg/Kg wet	5.00		70.9		40-140			
Pyrene	3.53	0.10	mg/Kg wet	5.00		70.6		40-140			
n-Decane	1.87	0.10	mg/Kg wet	5.00		**37.5**	*	40-140			L-04
n-Docosane	4.04	0.10	mg/Kg wet	5.00		80.9		40-140			
n-Dodecane	2.71	0.10	mg/Kg wet	5.00		54.2		40-140			
n-Eicosane	4.04	0.10	mg/Kg wet	5.00		80.8		40-140			
n-Hexacosane	4.11	0.10	mg/Kg wet	5.00		82.2		40-140			
n-Hexadecane	3.97	0.10	mg/Kg wet	5.00		79.4		40-140			
n-Hexatriacontane	5.60	0.10	mg/Kg wet	5.00		112		40-140			
n-Nonadecane	4.03	0.10	mg/Kg wet	5.00		80.5		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076523 - SW-846 3546											
LCS (B076523-BS1)				Prepared: 07/11/13 Analyzed: 07/17/13							
n-Nonane	1.17	0.10	mg/Kg wet	5.00		**23.4**	*	30-140			L-04
n-Octacosane	3.98	0.10	mg/Kg wet	5.00		79.7		40-140			
n-Octadecane	4.06	0.10	mg/Kg wet	5.00		81.3		40-140			
n-Tetracosane	4.17	0.10	mg/Kg wet	5.00		83.4		40-140			
n-Tetradecane	3.45	0.10	mg/Kg wet	5.00		69.0		40-140			
n-Triacontane	4.03	0.10	mg/Kg wet	5.00		80.7		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.82*		mg/Kg wet	4.99		76.5		40-140			
Surrogate: o-Terphenyl (OTP)	*3.41*		mg/Kg wet	5.00		68.3		40-140			
Surrogate: 2-Bromonaphthalene	*3.52*		mg/Kg wet	5.00		70.3		40-140			
Surrogate: 2-Fluorobiphenyl	*3.84*		mg/Kg wet	5.00		76.9		40-140			
LCS Dup (B076523-BSD1)				Prepared: 07/11/13 Analyzed: 07/17/13							
Acenaphthene	3.85	0.10	mg/Kg wet	5.00		76.9		40-140	17.5	25	
Acenaphthylene	3.55	0.10	mg/Kg wet	5.00		71.0		40-140	17.2	25	
Anthracene	4.25	0.10	mg/Kg wet	5.00		85.0		40-140	17.2	25	
Benzo(a)anthracene	4.31	0.10	mg/Kg wet	5.00		86.2		40-140	15.2	25	
Benzo(a)pyrene	4.09	0.10	mg/Kg wet	5.00		81.8		40-140	14.5	25	
Benzo(b)fluoranthene	4.24	0.10	mg/Kg wet	5.00		84.9		40-140	14.3	25	
Benzo(g,h,i)perylene	4.24	0.10	mg/Kg wet	5.00		84.7		40-140	13.0	25	
Benzo(k)fluoranthene	4.22	0.10	mg/Kg wet	5.00		84.3		40-140	14.5	25	
Chrysene	4.08	0.10	mg/Kg wet	5.00		81.6		40-140	15.6	25	
Dibenz(a,h)anthracene	4.35	0.10	mg/Kg wet	5.00		87.1		40-140	14.8	25	
Fluoranthene	4.22	0.10	mg/Kg wet	5.00		84.4		40-140	15.4	25	
Fluorene	3.97	0.10	mg/Kg wet	5.00		79.3		40-140	17.5	25	
Indeno(1,2,3-cd)pyrene	4.38	0.10	mg/Kg wet	5.00		87.7		40-140	14.1	25	
2-Methylnaphthalene	3.34	0.10	mg/Kg wet	5.00		66.7		40-140	19.8	25	
Naphthalene	2.82	0.10	mg/Kg wet	5.00		56.5		40-140	17.4	25	
Phenanthrene	4.18	0.10	mg/Kg wet	5.00		83.6		40-140	16.5	25	
Pyrene	4.11	0.10	mg/Kg wet	5.00		82.3		40-140	15.3	25	
n-Decane	1.78	0.10	mg/Kg wet	5.00		**35.6**	*	40-140	4.94	25	L-04
n-Docosane	3.62	0.10	mg/Kg wet	5.00		72.3		40-140	11.2	25	
n-Dodecane	2.55	0.10	mg/Kg wet	5.00		50.9		40-140	6.24	25	
n-Eicosane	3.58	0.10	mg/Kg wet	5.00		71.5		40-140	12.2	25	
n-Hexacosane	3.80	0.10	mg/Kg wet	5.00		76.0		40-140	7.89	25	
n-Hexadecane	3.53	0.10	mg/Kg wet	5.00		70.6		40-140	11.6	25	
n-Hexatriacontane	4.97	0.10	mg/Kg wet	5.00		99.4		40-140	11.9	25	
n-Nonadecane	3.56	0.10	mg/Kg wet	5.00		71.3		40-140	12.2	25	
n-Nonane	1.10	0.10	mg/Kg wet	5.00		**22.1**	*	30-140	5.83	25	L-04
n-Octacosane	3.66	0.10	mg/Kg wet	5.00		73.2		40-140	8.52	25	
n-Octadecane	3.60	0.10	mg/Kg wet	5.00		72.0		40-140	12.2	25	
n-Tetracosane	3.83	0.10	mg/Kg wet	5.00		76.6		40-140	8.49	25	
n-Tetradecane	3.15	0.10	mg/Kg wet	5.00		62.9		40-140	9.15	25	
n-Triacontane	3.68	0.10	mg/Kg wet	5.00		73.6		40-140	9.24	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.29*		mg/Kg wet	4.99		65.9		40-140			
Surrogate: o-Terphenyl (OTP)	*3.87*		mg/Kg wet	5.00		77.4		40-140			
Surrogate: 2-Bromonaphthalene	*4.07*		mg/Kg wet	5.00		81.3		40-140			
Surrogate: 2-Fluorobiphenyl	*4.54*		mg/Kg wet	5.00		90.8		40-140			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076643 - MA VPH										
Blank (B076643-BLK1)				Prepared & Analyzed: 07/12/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*2.79*		mg/Kg wet	3.33		83.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.68*		mg/Kg wet	3.33		80.4	70-130			
LCS (B076643-BS1)				Prepared & Analyzed: 07/12/13						
Benzene	5.07	0.050	mg/Kg wet	5.00		101	70-130			
Butylcyclohexane	4.03	0.050	mg/Kg wet	5.00		80.7	70-130			
Decane	4.18	0.050	mg/Kg wet	5.00		83.6	70-130			
Ethylbenzene	5.40	0.050	mg/Kg wet	5.00		108	70-130			
Methyl tert-Butyl Ether (MTBE)	4.98	0.050	mg/Kg wet	5.00		99.6	70-130			
2-Methylpentane	4.16	0.050	mg/Kg wet	5.00		83.1	70-130			
Naphthalene	4.77	0.25	mg/Kg wet	5.00		95.4	70-130			
Nonane	3.89	0.050	mg/Kg wet	5.00		77.8	30-130			
Pentane	3.82	0.050	mg/Kg wet	5.00		76.4	70-130			
Toluene	5.28	0.050	mg/Kg wet	5.00		106	70-130			
1,2,4-Trimethylbenzene	5.08	0.050	mg/Kg wet	5.00		102	70-130			
2,2,4-Trimethylpentane	4.39	0.050	mg/Kg wet	5.00		87.8	70-130			
m+p Xylene	11.0	0.10	mg/Kg wet	10.0		110	70-130			
o-Xylene	5.38	0.050	mg/Kg wet	5.00		108	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*2.65*		mg/Kg wet	3.33		79.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.52*		mg/Kg wet	3.33		75.7	70-130			
LCS Dup (B076643-BSD1)				Prepared & Analyzed: 07/12/13						
Benzene	4.99	0.050	mg/Kg wet	5.00		99.7	70-130	1.60	25	
Butylcyclohexane	4.01	0.050	mg/Kg wet	5.00		80.1	70-130	0.699	25	
Decane	4.16	0.050	mg/Kg wet	5.00		83.1	70-130	0.530	25	
Ethylbenzene	5.31	0.050	mg/Kg wet	5.00		106	70-130	1.66	25	
Methyl tert-Butyl Ether (MTBE)	4.97	0.050	mg/Kg wet	5.00		99.5	70-130	0.154	25	
2-Methylpentane	3.99	0.050	mg/Kg wet	5.00		79.8	70-130	4.06	25	
Naphthalene	4.89	0.25	mg/Kg wet	5.00		97.8	70-130	2.46	25	
Nonane	3.91	0.050	mg/Kg wet	5.00		78.1	30-130	0.411	25	
Pentane	3.70	0.050	mg/Kg wet	5.00		74.0	70-130	3.24	25	
Toluene	5.21	0.050	mg/Kg wet	5.00		104	70-130	1.34	25	
1,2,4-Trimethylbenzene	5.04	0.050	mg/Kg wet	5.00		101	70-130	0.826	25	
2,2,4-Trimethylpentane	4.15	0.050	mg/Kg wet	5.00		83.0	70-130	5.61	25	
m+p Xylene	10.8	0.10	mg/Kg wet	10.0		108	70-130	1.32	25	
o-Xylene	5.32	0.050	mg/Kg wet	5.00		106	70-130	1.19	25	
Surrogate: 2,5-Dibromotoluene (FID)	*2.85*		mg/Kg wet	3.33		85.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.71*		mg/Kg wet	3.33		81.4	70-130			

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

QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076845 - % Solids										
Duplicate (B076845-DUP1)		**Source: 13G0336-01**		Prepared: 07/16/13 Analyzed: 07/17/13						
% Solids	81.8		% Wt		81.7			0.122	20	

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-23	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

con-test® ANALYTICAL LABORATORY

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

ANALYST

SLD	Stacy L. Dybas
SMC	Steven M. Case
SCS	Scott C. Sadowski
RH	Robert H. Witherell
OJS	Olga J. Szymura
MLA	Mathew L. Amann
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
EW	Edwin William
ESH	Erin S. Herlihy
EEH	Eric E. Hess
CMR	Catherine M. Rouleau
CMF	Chris M. Foley
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0336

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Naphtha, Varsol, Methanol USTs
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)					Comments
~~Trip Blank~~			Lab	S	3	2	1				x								Bay
01 GEP-3	7/9/13	1140	Bay	S	6	2	3			1	x	x	x	x					
02 GEP-4	↓	1150	↓	S	6	2	3			1	x	x	x	x					
03 GEP-5		1200		S	6	2	3			1	x	x	x	x					
				S	6	2	3			1	x	x	x	x					
				S	6	2	3			1	x	x	x	x					
				S	6	2	3			1	x	x	x	x					
				S	0														
				S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/9/13 1830	1 Fed-X	2		2
3	7/10/13 09:31	3 [signature] 4.0	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

07-10-13 14:25 IN

FedEx.

802540399110

Ship (P/U) date :
Tues 7/09/2013 5:55 pm
RAL US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Wed 7/10/2013 9:31 am
MA US

Travel History

Date/Time	Activity	Location
- 7/10/2013 - Wednesday		
9:31 am	Delivered	MA
8:02 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:18 am	At local FedEx facility	WINDSOR LOCKS, CT
5:59 am	At destination sort facility	EAST GRANBY, CT
4:23 am	Departed FedEx location	INDIANAPOLIS, IN
- 7/09/2013 - Tuesday		
11:51 pm	Arrived at FedEx location	INDIANAPOLIS, IN
8:48 pm	Left FedEx origin facility	RALEIGH, NC
5:55 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

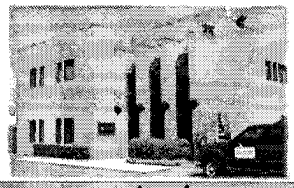
Local Scan Time

Shipment Facts

Tracking number	802540399110	**Service**	FedEx Priority Overnight
Weight	18 lbs	**Dimensions**	13x12x12 in.
Delivered To	Receptionist/Front Desk	**Total pieces**	1
Total shipment weight	18 lbs / 8.2 kgs	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** SD **DATE:** 7/10/13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

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

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

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

Temperature °C by Temp blank 4.0 Temperature °C by Temp gun 6

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

Who was notified _____ Date _____ Time _____

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

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

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

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

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

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	3
500 mL Amber		4 oz amber/clear jar	3
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	9	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 3
Bisulfate _____ # DI Water 6
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-10-13 14:35 IN

Doc# 277
Rev. 3 May 2012

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

July 19, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: HWI, Lenoir, NC
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0347

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

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

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/19/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0347

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

PROJECT LOCATION: HWI, Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
HWI-1	13G0347-01	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	

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

CASE NARRATIVE SUMMARY

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

REVISED REPORT 07/19/13 - 8270 compound list updated per project.

con-test® ANALYTICAL LABORATORY

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

SW-846 6010C

Qualifications:

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

Analyte & Samples(s) Qualified:

Lead, Zinc

B076491-BLK1

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Lead, Zinc

13G0347-01[HWI-1]

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Beryllium

13G0347-01[HWI-1]

SW-846 8260B

Qualifications:

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

Analyte & Samples(s) Qualified:

Chloromethane

13G0347-01[HWI-1], B076569-BLK1, B076569-BS1, B076569-BSD1

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

Analyte & Samples(s) Qualified:

Methyl Acetate, Methyl Cyclohexane

B076569-BS1, B076569-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076569-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane

13G0347-01[HWI-1], B076569-BLK1, B076569-BS1, B076569-BSD1

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

Analyte & Samples(s) Qualified:

Chloromethane

13G0347-01[HWI-1], B076569-BLK1, B076569-BS1, B076569-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,2-Dibromo-3-chloropropane (DBCP), 1,4-Dioxane

13G0347-01[HWI-1], B076569-BLK1, B076569-BS1, B076569-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane

B076569-BS1, B076569-BSD1

SW-846 8270D

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Benzaldehyde, Hexachlorocyclopentadiene

B076726-BSD1

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

Analyte & Samples(s) Qualified:

2,3,4,6-Tetrachlorophenol, 2,4-Dinitrophenol, 2-Chloronaphthalene, Benzaldehyde, Biphenyl, Caprolactam, Hexachlorocyclopentadiene, Pentachlorophenol

13G0347-01[HWI-1], B076726-BLK1, B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

B076726-BS1

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

Analyte & Samples(s) Qualified:

4-Nitrophenol, Atrazine, Benzo(b)fluoranthene, Di-n-butylphthalate, Di-n-octylphthalate, Hexachlorocyclopentadiene

13G0347-01[HWI-1], B076726-BLK1, B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

B076726-BS1, B076726-BSD1

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

13G0347-01[HWI-1], B076726-BLK1

---

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

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

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC | Sample Description: | Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1 | Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Benzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Bromodichloromethane	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 10:19	MFF
2-Butanone (MEK)	ND	0.052	0.023	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Carbon Disulfide	ND	0.026	0.0043	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Chlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Chlorodibromomethane	ND	0.0052	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Chloroethane	ND	0.026	0.0020	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Chloroform	ND	0.0052	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Cyclohexane	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,1-Dichloroethane	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,1-Dichloroethylene	ND	0.0052	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,4-Dioxane	ND	0.13	0.075	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
2-Hexanone (MBK)	ND	0.052	0.014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Methylene Chloride	ND	0.026	0.0093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.052	0.010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Styrene	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC
Sample Description:
Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1
Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Trichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
m+p Xylene	ND	0.0052	0.0022	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF
o-Xylene	ND	0.0026	0.00092	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:19	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	92.8	70-130		7/11/13 10:19
Toluene-d8	98.1	70-130		7/11/13 10:19
4-Bromofluorobenzene	96.5	70-130		7/11/13 10:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC
Sample Description:
Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1
Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/11/13 10:19	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC | Sample Description: | Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1 | Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.78	0.40	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Biphenyl	ND	0.78	0.49	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Caprolactam	ND	0.40	0.30	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Acenaphthene	ND	0.20	0.099	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Acenaphthylene	ND	0.20	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Acetophenone	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Benzo(a)anthracene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Benzo(a)pyrene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Benzo(b)fluoranthene	ND	0.20	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1	V-20	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Bis(2-Ethylhexyl)phthalate	0.18	0.40	0.088	mg/Kg dry	1	J	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
4-Bromophenylphenylether	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Carbazole	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
4-Chloroaniline	ND	0.77	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
4-Chloro-3-methylphenol	ND	0.77	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2-Chloronaphthalene	ND	0.40	0.12	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
4-Chlorophenylphenylether	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Dibenzofuran	ND	0.40	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Diethylphthalate	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2,4-Dimethylphenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Dimethylphthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2,4-Dinitrophenol	ND	0.77	0.39	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2,4-Dinitrotoluene	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2,6-Dinitrotoluene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Di-n-octylphthalate	ND	0.78	0.54	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC | Sample Description: | Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1 | Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Isophorone	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2-Methylnaphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2-Methylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Naphthalene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2-Nitroaniline	ND	0.40	0.27	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
3-Nitroaniline	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
4-Nitroaniline	ND	0.40	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
4-Nitrophenol	ND	0.77	0.69	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
N-Nitrosodiphenylamine	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Pentachlorophenol	ND	0.40	0.15	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Phenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2,4,5-Trichlorophenol	ND	0.40	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/15/13	7/17/13 14:40	BGL
Atrazine	ND	0.78	0.66	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/17/13 14:40	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	61.0	30-130		7/17/13 14:40
Phenol-d6	62.8	30-130		7/17/13 14:40
Nitrobenzene-d5	67.2	30-130		7/17/13 14:40
2-Fluorobiphenyl	68.1	30-130		7/17/13 14:40
2,4,6-Tribromophenol	83.8	30-130		7/17/13 14:40
p-Terphenyl-d14	89.6	30-130		7/17/13 14:40

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC
Sample Description:
Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1
Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexadecanamide	0.18	mg/Kg dry	258407	14.795	1	000629-54-9	SW-846 8270D	7/15/13	7/17/13 14:40	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC
Sample Description:
Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1
Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.68	mg/Kg dry	1		SW-846 8315	7/11/13	7/12/13 16:02	JMP

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC | Sample Description: | Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1 | Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.9	2.4	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Arsenic	ND	2.9	1.1	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Beryllium	ND	1.5	0.24	mg/Kg dry	5	DL-04	SW-846 6010C	7/10/13	7/11/13 16:42	OP
Cadmium	0.50	0.29	0.17	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Chromium	10	0.59	0.15	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Copper	16	0.59	0.45	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Lead	5.2	0.88	0.41	mg/Kg dry	1	B-07	SW-846 6010C	7/10/13	7/11/13 12:21	OP
Manganese	220	0.59	0.19	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Mercury	0.030	0.029	0.0019	mg/Kg dry	1		SW-846 7471B	7/11/13	7/12/13 14:01	SAJ
Nickel	2.4	0.59	0.14	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Selenium	ND	5.9	0.91	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Silver	ND	0.59	0.52	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Thallium	ND	2.9	0.98	mg/Kg dry	1		SW-846 6010C	7/10/13	7/11/13 12:21	OP
Zinc	28	1.2	0.30	mg/Kg dry	1	B-07	SW-846 6010C	7/10/13	7/11/13 12:21	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: HWI, Lenoir, NC
Sample Description:
Work Order: 13G0347

Date Received: 7/10/2013

Field Sample #: HWI-1
Sampled: 7/9/2013 12:30

Sample ID: 13G0347-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	7/15/13	7/15/13 12:37	MLA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0347-01 [HWI-1]	B076729	07/15/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0347-01 [HWI-1]	B076491	1.01	50.0	07/10/13

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0347-01 [HWI-1]	B076500	0.605	50.0	07/11/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0347-01 [HWI-1]	B076569	4.53	10.0	07/11/13

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0347-01 [HWI-1]	B076726	30.6	1.00	07/15/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0347-01 [HWI-1]	B076590	5.02	25.0	07/11/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04, V-05
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							V-16
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035												
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13								
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0472*		mg/Kg wet	0.0500		94.4		70-130				
Surrogate: Toluene-d8	*0.0504*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		98.0		70-130				
LCS (B076569-BS1)				Prepared & Analyzed: 07/11/13								
Acetone	0.180	0.10	mg/Kg wet	0.200		89.8		70-160		25		†
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5		70-130		25		
Bromochloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6		70-130		25		
Bromodichloromethane	0.0171	0.0020	mg/Kg wet	0.0200		85.4		70-130		25		
Bromoform	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130		25		
Bromomethane	0.0211	0.010	mg/Kg wet	0.0200		106		40-130		25	R-05, V-20	†
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.3		70-160		25		†
Carbon Disulfide	0.0157	0.0060	mg/Kg wet	0.0200		78.3		70-130		25		
Carbon Tetrachloride	0.0184	0.0020	mg/Kg wet	0.0200		91.9		70-130		25		
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130		25		
Chlorodibromomethane	0.0186	0.0010	mg/Kg wet	0.0200		93.0		70-130		25		
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		110		70-130		25		
Chloroform	0.0177	0.0040	mg/Kg wet	0.0200		88.3		70-130		25		
Chloromethane	0.00978	0.010	mg/Kg wet	0.0200		**48.9**	*	70-130		25	J, V-05, L-04	
Cyclohexane	0.0182	0.0020	mg/Kg wet	0.0200		91.2		70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130		25	V-16	
1,2-Dibromoethane (EDB)	0.0198	0.0010	mg/Kg wet	0.0200		99.0		70-130		25		
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130		25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0107	0.020	mg/Kg wet	0.0200		53.4		40-160		25	J	†
1,1-Dichloroethane	0.0163	0.0020	mg/Kg wet	0.0200		81.4		70-130		25		
1,2-Dichloroethane	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130		25		
1,1-Dichloroethylene	0.0195	0.0040	mg/Kg wet	0.0200		97.3		70-130		25		
cis-1,2-Dichloroethylene	0.0169	0.0020	mg/Kg wet	0.0200		84.6		70-130		25		
trans-1,2-Dichloroethylene	0.0164	0.0020	mg/Kg wet	0.0200		82.1		70-130		25		
1,2-Dichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.0		70-130		25		
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.3		70-130		25		
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130		25		
1,4-Dioxane	0.213	0.10	mg/Kg wet	0.200		106		40-160		50	V-16	†
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130		25		
2-Hexanone (MBK)	0.190	0.020	mg/Kg wet	0.200		95.1		70-160		25		†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.6		70-130		25		
Methyl Acetate	0.0139	0.0020	mg/Kg wet	0.0200		**69.5**	*	70-130		25	L-07	
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.0200		96.3		70-130		25		
Methyl Cyclohexane	0.0254	0.0020	mg/Kg wet	0.0200		127		70-130		25		
Methylene Chloride	0.0169	0.020	mg/Kg wet	0.0200		84.5		40-160		25	J	†
4-Methyl-2-pentanone (MIBK)	0.190	0.020	mg/Kg wet	0.200		94.8		70-160		25		†
Styrene	0.0186	0.0020	mg/Kg wet	0.0200		92.8		70-130		25		
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.5		70-130		25		
Tetrachloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5		70-130		25		
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7		70-130		25		
1,2,4-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113		70-130		25		
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5		70-130		25		
1,1,2-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0		70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076569 - SW-846 5035													
LCS (B076569-BS1)				Prepared & Analyzed: 07/11/13									
Trichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6		70-130			25		
Trichlorofluoromethane (Freon 11)	0.0223	0.010	mg/Kg wet	0.0200		112		70-130			25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0211	0.010	mg/Kg wet	0.0200		106		70-130			25		
Vinyl Chloride	0.0149	0.010	mg/Kg wet	0.0200		74.4		40-130			25		†
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		99.9		70-130			25		
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3		70-130			25		
Surrogate: 1,2-Dichloroethane-d4	*0.0470*		mg/Kg wet	0.0500		93.9		70-130					
Surrogate: Toluene-d8	*0.0514*		mg/Kg wet	0.0500		103		70-130					
Surrogate: 4-Bromofluorobenzene	*0.0507*		mg/Kg wet	0.0500		101		70-130					
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13									
Acetone	0.209	0.10	mg/Kg wet	0.200		104		70-160	15.0		25		†
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	12.5		25		
Bromochloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130	9.85		25		
Bromodichloromethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130	11.8		25		
Bromoform	0.0177	0.0020	mg/Kg wet	0.0200		88.7		70-130	5.09		25		
Bromomethane	0.0303	0.010	mg/Kg wet	0.0200		**151**	*	40-130	**35.7**	*	25	L-07A, R-05, V-20	†
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.200		99.0		70-160	13.8		25		†
Carbon Disulfide	0.0178	0.0060	mg/Kg wet	0.0200		89.1		70-130	12.9		25		
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	9.24		25		
Chlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	9.68		25		
Chlorodibromomethane	0.0200	0.0010	mg/Kg wet	0.0200		100		70-130	7.35		25		
Chloroethane	0.0247	0.020	mg/Kg wet	0.0200		124		70-130	11.4		25		
Chloroform	0.0200	0.0040	mg/Kg wet	0.0200		99.9		70-130	12.3		25		
Chloromethane	0.0105	0.010	mg/Kg wet	0.0200		**52.4**	*	70-130	6.91		25	V-05, L-04	
Cyclohexane	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	12.1		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0196	0.0020	mg/Kg wet	0.0200		97.9		70-130	1.44		25	V-16	
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		109		70-130	9.25		25		
1,2-Dichlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	9.17		25		
1,3-Dichlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117		70-130	10.1		25		
1,4-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130	3.38		25		
Dichlorodifluoromethane (Freon 12)	0.0114	0.020	mg/Kg wet	0.0200		57.1		40-160	6.70		25	J	†
1,1-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130	16.6		25		
1,2-Dichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-130	14.4		25		
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130	3.73		25		
cis-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9		70-130	10.4		25		
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		93.2		70-130	12.7		25		
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	8.74		25		
cis-1,3-Dichloropropene	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	13.8		25		
trans-1,3-Dichloropropene	0.0241	0.0010	mg/Kg wet	0.0200		121		70-130	15.7		25		
1,4-Dioxane	0.207	0.10	mg/Kg wet	0.200		103		40-160	2.80		50	V-16	† ‡
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	8.07		25		
2-Hexanone (MBK)	0.205	0.020	mg/Kg wet	0.200		102		70-160	7.37		25		†
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	7.40		25		
Methyl Acetate	0.0159	0.0020	mg/Kg wet	0.0200		79.4		70-130	13.3		25		
Methyl tert-Butyl Ether (MTBE)	0.0216	0.0040	mg/Kg wet	0.0200		108		70-130	11.6		25		
Methyl Cyclohexane	0.0284	0.0020	mg/Kg wet	0.0200		**142**	*	70-130	11.2		25	L-07	
Methylene Chloride	0.0186	0.020	mg/Kg wet	0.0200		93.1		40-160	9.68		25	J	†
4-Methyl-2-pentanone (MIBK)	0.206	0.020	mg/Kg wet	0.200		103		70-160	8.51		25		†
Styrene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	8.46		25		
1,1,2,2-Tetrachloroethane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130	9.94		25		
Tetrachloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	7.35		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13						
Toluene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	12.4	25	
1,2,3-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	2.30	25	
1,2,4-Trichlorobenzene	0.0237	0.0020	mg/Kg wet	0.0200		119	70-130	5.10	25	
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	8.68	25	
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	5.13	25	
Trichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130	9.25	25	
Trichlorofluoromethane (Freon 11)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130	0.179	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0221	0.010	mg/Kg wet	0.0200		111	70-130	4.63	25	
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.0200		85.2	40-130	13.5	25	†
m+p Xylene	0.0431	0.0040	mg/Kg wet	0.0400		108	70-130	7.65	25	
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	9.78	25	
Surrogate: 1,2-Dichloroethane-d4	*0.0464*		mg/Kg wet	0.0500		92.8	70-130			
Surrogate: Toluene-d8	*0.0515*		mg/Kg wet	0.0500		103	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		98.0	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							R-05
Benzaldehyde	ND	0.34	mg/Kg wet							R-05
Biphenyl	ND	0.67	mg/Kg wet							R-05
Caprolactam	ND	0.34	mg/Kg wet							R-05
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							V-20
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							R-05
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							V-05
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.67	mg/Kg wet							V-05
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							R-05, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546											
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13							
3-Nitroaniline	ND	0.34	mg/Kg wet								
4-Nitroaniline	ND	0.34	mg/Kg wet								
Nitrobenzene	ND	0.34	mg/Kg wet								
2-Nitrophenol	ND	0.34	mg/Kg wet								
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								
Pentachlorophenol	ND	0.34	mg/Kg wet							R-05	
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Atrazine	ND	0.67	mg/Kg wet							V-05	
Surrogate: 2-Fluorophenol	*5.33*		mg/Kg wet	6.67		80.0	30-130				
Surrogate: Phenol-d6	*5.58*		mg/Kg wet	6.67		83.6	30-130				
Surrogate: Nitrobenzene-d5	*3.00*		mg/Kg wet	3.33		89.9	30-130				
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.43*		mg/Kg wet	6.67		111	30-130				
Surrogate: p-Terphenyl-d14	*4.05*		mg/Kg wet	3.33		122	30-130				
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13							
2,3,4,6-Tetrachlorophenol	1.78	0.67	mg/Kg wet	1.67		107	40-140		20	R-05	
Benzaldehyde	0.809	0.34	mg/Kg wet	1.67		48.5	40-140		20	R-05	
Biphenyl	1.78	0.67	mg/Kg wet	1.67		107	40-140		20	R-05	
Caprolactam	2.02	0.34	mg/Kg wet	1.67		121	40-140		20	R-05	
Acenaphthene	1.66	0.17	mg/Kg wet	1.67		99.8	40-140		30		
Acenaphthylene	1.70	0.17	mg/Kg wet	1.67		102	40-140		30		
Acetophenone	1.29	0.34	mg/Kg wet	1.67		77.1	40-140		30		
Anthracene	1.79	0.17	mg/Kg wet	1.67		107	40-140		30		
Benzo(a)anthracene	1.91	0.17	mg/Kg wet	1.67		115	40-140		30		
Benzo(a)pyrene	1.86	0.17	mg/Kg wet	1.67		112	40-140		30		
Benzo(b)fluoranthene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140		30	V-05	
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140		30	V-06	
Benzo(k)fluoranthene	1.68	0.17	mg/Kg wet	1.67		101	40-140		30		
Bis(2-chloroethoxy)methane	1.63	0.34	mg/Kg wet	1.67		97.5	40-140		30		
Bis(2-chloroethyl)ether	1.56	0.34	mg/Kg wet	1.67		93.6	40-140		30		
Bis(2-chloroisopropyl)ether	1.27	0.34	mg/Kg wet	1.67		76.4	40-140		30		
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.67		98.2	40-140		30		
4-Bromophenylphenylether	1.98	0.34	mg/Kg wet	1.67		119	40-140		30		
Butylbenzylphthalate	1.91	0.34	mg/Kg wet	1.67		115	40-140		30		
Carbazole	1.98	0.17	mg/Kg wet	1.67		119	40-140		30		
4-Chloroaniline	0.842	0.66	mg/Kg wet	1.67		50.5	10-140		30		†
4-Chloro-3-methylphenol	1.66	0.66	mg/Kg wet	1.67		99.8	30-130		30		
2-Chloronaphthalene	1.68	0.34	mg/Kg wet	1.67		101	40-140		30	R-05	
2-Chlorophenol	1.47	0.34	mg/Kg wet	1.67		88.2	30-130		30		
4-Chlorophenylphenylether	1.52	0.34	mg/Kg wet	1.67		91.2	40-140		30		
Chrysene	1.83	0.17	mg/Kg wet	1.67		110	40-140		30		
Dibenz(a,h)anthracene	1.78	0.17	mg/Kg wet	1.67		107	40-140		30		
Dibenzofuran	1.61	0.34	mg/Kg wet	1.67		96.5	40-140		30		
Di-n-butylphthalate	1.94	0.34	mg/Kg wet	1.67		116	40-140		30	V-05	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546											
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13							
3,3-Dichlorobenzidine	1.54	0.17	mg/Kg wet	1.67		92.3	20-140		50		†
2,4-Dichlorophenol	1.72	0.34	mg/Kg wet	1.67		103	30-130		30		
Diethylphthalate	1.77	0.34	mg/Kg wet	1.67		106	40-140		30		
2,4-Dimethylphenol	1.75	0.34	mg/Kg wet	1.67		105	30-130		30		
Dimethylphthalate	1.78	0.34	mg/Kg wet	1.67		107	40-140		30		
4,6-Dinitro-2-methylphenol	2.02	0.34	mg/Kg wet	1.67		121	30-130		30		
2,4-Dinitrophenol	1.60	0.66	mg/Kg wet	1.67		96.3	30-130		30	R-05	
2,4-Dinitrotoluene	1.82	0.34	mg/Kg wet	1.67		109	40-140		30		
2,6-Dinitrotoluene	1.94	0.34	mg/Kg wet	1.67		116	40-140		30		
Di-n-octylphthalate	1.60	0.67	mg/Kg wet	1.67		96.2	40-140		30	V-05	
Fluoranthene	2.08	0.17	mg/Kg wet	1.67		125	40-140		30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.2	40-140		30		
Hexachlorobenzene	2.02	0.34	mg/Kg wet	1.67		121	40-140		30		
Hexachlorobutadiene	1.51	0.34	mg/Kg wet	1.67		90.5	40-140		30		
Hexachlorocyclopentadiene	0.767	0.34	mg/Kg wet	1.67		46.0	40-140		30	R-05, V-05	
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		74.9	40-140		30		
Indeno(1,2,3-cd)pyrene	1.74	0.17	mg/Kg wet	1.67		105	40-140		30		
Isophorone	1.64	0.34	mg/Kg wet	1.67		98.5	40-140		30		
2-Methylnaphthalene	1.41	0.17	mg/Kg wet	1.67		84.7	40-140		30		
2-Methylphenol	1.54	0.34	mg/Kg wet	1.67		92.2	30-130		30		
3/4-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.2	30-130		30		
Naphthalene	1.50	0.17	mg/Kg wet	1.67		89.8	40-140		30		
2-Nitroaniline	1.40	0.34	mg/Kg wet	1.67		83.8	40-140		30		
3-Nitroaniline	1.78	0.34	mg/Kg wet	1.67		107	30-140		30		†
4-Nitroaniline	1.57	0.34	mg/Kg wet	1.67		94.4	40-140		30		
Nitrobenzene	1.50	0.34	mg/Kg wet	1.67		89.8	40-140		30		
2-Nitrophenol	1.81	0.34	mg/Kg wet	1.67		108	30-130		30		
4-Nitrophenol	1.19	0.66	mg/Kg wet	1.67		71.7	30-130		50	V-05	
N-Nitrosodiphenylamine	2.27	0.34	mg/Kg wet	1.67		136	40-140		30		
N-Nitrosodi-n-propylamine	1.22	0.34	mg/Kg wet	1.67		73.5	40-140		30		
Pentachlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7	30-130		30	R-05	
Phenanthrene	1.89	0.17	mg/Kg wet	1.67		114	40-140		30		
Phenol	1.45	0.34	mg/Kg wet	1.67		86.9	30-130		30		
Pyrene	1.87	0.17	mg/Kg wet	1.67		112	40-140		30		
1,2,4,5-Tetrachlorobenzene	1.66	0.34	mg/Kg wet	1.67		99.9	40-140		30		
2,4,5-Trichlorophenol	1.68	0.34	mg/Kg wet	1.67		101	30-130		30		
2,4,6-Trichlorophenol	1.82	0.34	mg/Kg wet	1.67		109	30-130		30		
Atrazine	1.76	0.67	mg/Kg wet	1.67		105	40-140		30	V-05	
Surrogate: 2-Fluorophenol	*5.71*		mg/Kg wet	6.67		85.7	30-130				
Surrogate: Phenol-d6	*5.50*		mg/Kg wet	6.67		82.4	30-130				
Surrogate: Nitrobenzene-d5	*3.10*		mg/Kg wet	3.33		92.9	30-130				
Surrogate: 2-Fluorobiphenyl	*3.04*		mg/Kg wet	3.33		91.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*8.87*		mg/Kg wet	6.67		**133**	* 30-130			S-07	
Surrogate: p-Terphenyl-d14	*3.92*		mg/Kg wet	3.33		118	30-130				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076726 - SW-846 3546													
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13									
2,3,4,6-Tetrachlorophenol	1.28	0.67	mg/Kg wet	1.67		77.1		40-140	**32.3**	*	20	R-05	
Benzaldehyde	0.617	0.34	mg/Kg wet	1.67		**37.0**	*	40-140	**26.9**	*	20	L-07A	
Biphenyl	1.45	0.67	mg/Kg wet	1.67		87.0		40-140	**20.3**	*	20	R-05	
Caprolactam	1.60	0.34	mg/Kg wet	1.67		96.0		40-140	**23.1**	*	20	R-05	
Acenaphthene	1.35	0.17	mg/Kg wet	1.67		80.7		40-140	21.2		30		
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.6		40-140	23.4		30		
Acetophenone	0.996	0.34	mg/Kg wet	1.67		59.8		40-140	25.4		30		
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.1		40-140	23.0		30		
Benzo(a)anthracene	1.51	0.17	mg/Kg wet	1.67		90.7		40-140	23.5		30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.2		40-140	23.4		30		
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1		40-140	21.7		30	V-05	
Benzo(g,h,i)perylene	1.59	0.17	mg/Kg wet	1.67		95.4		40-140	2.87		30	V-06	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8		40-140	24.6		30		
Bis(2-chloroethoxy)methane	1.29	0.34	mg/Kg wet	1.67		77.4		40-140	23.0		30		
Bis(2-chloroethyl)ether	1.17	0.34	mg/Kg wet	1.67		70.3		40-140	28.4		30		
Bis(2-chloroisopropyl)ether	0.995	0.34	mg/Kg wet	1.67		59.7		40-140	24.5		30		
Bis(2-Ethylhexyl)phthalate	1.33	0.34	mg/Kg wet	1.67		80.0		40-140	20.4		30		
4-Bromophenylphenylether	1.56	0.34	mg/Kg wet	1.67		93.7		40-140	23.7		30		
Butylbenzylphthalate	1.53	0.34	mg/Kg wet	1.67		91.7		40-140	22.4		30		
Carbazole	1.58	0.17	mg/Kg wet	1.67		95.0		40-140	22.2		30		
4-Chloroaniline	0.663	0.66	mg/Kg wet	1.67		39.8		10-140	23.8		30		†
4-Chloro-3-methylphenol	1.35	0.66	mg/Kg wet	1.67		80.9		30-130	20.8		30		
2-Chloronaphthalene	1.24	0.34	mg/Kg wet	1.67		74.3		40-140	**30.2**	*	30	R-05	
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.2		30-130	25.5		30		
4-Chlorophenylphenylether	1.25	0.34	mg/Kg wet	1.67		74.9		40-140	19.7		30		
Chrysene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	21.3		30		
Dibenz(a,h)anthracene	1.59	0.17	mg/Kg wet	1.67		95.5		40-140	11.2		30		
Dibenzofuran	1.30	0.34	mg/Kg wet	1.67		78.2		40-140	20.9		30		
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		93.1		40-140	22.1		30	V-05	
3,3-Dichlorobenzidine	1.20	0.17	mg/Kg wet	1.67		72.2		20-140	24.5		50		† ‡
2,4-Dichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.6		30-130	23.3		30		
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		83.7		40-140	23.5		30		
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.5		30-130	25.4		30		
Dimethylphthalate	1.42	0.34	mg/Kg wet	1.67		85.1		40-140	22.5		30		
4,6-Dinitro-2-methylphenol	1.58	0.34	mg/Kg wet	1.67		95.0		30-130	24.0		30		
2,4-Dinitrophenol	1.04	0.66	mg/Kg wet	1.67		62.5		30-130	**42.6**	*	30	R-05	
2,4-Dinitrotoluene	1.45	0.34	mg/Kg wet	1.67		87.1		40-140	22.7		30		
2,6-Dinitrotoluene	1.54	0.34	mg/Kg wet	1.67		92.6		40-140	22.8		30		
Di-n-octylphthalate	1.25	0.67	mg/Kg wet	1.67		75.1		40-140	24.7		30	V-05	
Fluoranthene	1.65	0.17	mg/Kg wet	1.67		99.1		40-140	22.9		30		
Fluorene	1.25	0.17	mg/Kg wet	1.67		75.1		40-140	18.2		30		
Hexachlorobenzene	1.60	0.34	mg/Kg wet	1.67		96.2		40-140	23.0		30		
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		70.5		40-140	24.9		30		
Hexachlorocyclopentadiene	0.566	0.34	mg/Kg wet	1.67		**33.9**	*	40-140	**30.2**	*	30	L-07A, V-05	
Hexachloroethane	0.957	0.34	mg/Kg wet	1.67		57.4		40-140	26.3		30		
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.2		40-140	9.49		30		
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.0		40-140	24.5		30		
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140	22.0		30		
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8		30-130	24.9		30		
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.7		30-130	24.9		30		
Naphthalene	1.17	0.17	mg/Kg wet	1.67		70.5		40-140	24.1		30		
2-Nitroaniline	1.12	0.34	mg/Kg wet	1.67		67.0		40-140	22.3		30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546											
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13							
3-Nitroaniline	1.40	0.34	mg/Kg wet	1.67		84.2	30-140	23.9	30		†
4-Nitroaniline	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	22.8	30		
Nitrobenzene	1.17	0.34	mg/Kg wet	1.67		70.5	40-140	24.1	30		
2-Nitrophenol	1.42	0.34	mg/Kg wet	1.67		85.3	30-130	23.9	30		
4-Nitrophenol	0.994	0.66	mg/Kg wet	1.67		59.7	30-130	18.3	50	V-05	‡
N-Nitrosodiphenylamine	1.86	0.34	mg/Kg wet	1.67		112	40-140	19.7	30		
N-Nitrosodi-n-propylamine	0.972	0.34	mg/Kg wet	1.67		58.3	40-140	23.1	30		
Pentachlorophenol	0.969	0.34	mg/Kg wet	1.67		58.1	30-130	**44.8** *	30	R-05	
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.7	40-140	20.2	30		
Phenol	1.14	0.34	mg/Kg wet	1.67		68.6	30-130	23.4	30		
Pyrene	1.48	0.17	mg/Kg wet	1.67		88.7	40-140	23.5	30		
1,2,4,5-Tetrachlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.7	40-140	23.7	30		
2,4,5-Trichlorophenol	1.38	0.34	mg/Kg wet	1.67		82.6	30-130	20.2	30		
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.7	30-130	24.3	30		
Atrazine	1.35	0.67	mg/Kg wet	1.67		81.1	40-140	26.0	30	V-05	
Surrogate: 2-Fluorophenol	*4.40*		mg/Kg wet	6.67		66.0	30-130				
Surrogate: Phenol-d6	*4.36*		mg/Kg wet	6.67		65.4	30-130				
Surrogate: Nitrobenzene-d5	*2.40*		mg/Kg wet	3.33		72.1	30-130				
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.73*		mg/Kg wet	6.67		101	30-130				
Surrogate: p-Terphenyl-d14	*3.05*		mg/Kg wet	3.33		91.6	30-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
No TICs Found	0.0		mg/Kg wet							

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076590 - SW-846 8315										
Blank (B076590-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Formaldehyde	ND	0.95	mg/Kg wet							
LCS (B076590-BS1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Formaldehyde	5.19	0.96	mg/Kg wet	4.80		108	39-153		40	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076491 - SW-846 3050B										
Blank (B076491-BLK1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	0.38	0.75	mg/Kg wet							J, B
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Zinc	0.64	1.0	mg/Kg wet							J, B
LCS (B076491-BS1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Antimony	81.1	5.0	mg/Kg wet	106		76.5	8.2-218.9		30	
Arsenic	192	5.0	mg/Kg wet	182		105	83-117.6		30	
Beryllium	105	0.50	mg/Kg wet	98.3		107	83.9-116		30	
Cadmium	67.3	0.50	mg/Kg wet	60.4		111	83.1-116.9		30	
Chromium	126	1.0	mg/Kg wet	125		101	81.6-117.6		30	
Copper	83.3	1.0	mg/Kg wet	80.1		104	83.8-116.1		30	
Lead	123	1.5	mg/Kg wet	136		90.3	82.4-117.8		30	
Manganese	279	1.0	mg/Kg wet	279		99.9	82.8-117.5		30	
Nickel	128	1.0	mg/Kg wet	128		99.9	84.4-115.6		30	
Selenium	101	10	mg/Kg wet	85.9		117	80-120		30	
Silver	58.9	1.0	mg/Kg wet	61.3		96.2	66.2-133.8		30	
Thallium	138	5.0	mg/Kg wet	144		96.0	81.2-118.8		30	
Zinc	204	2.0	mg/Kg wet	204		99.8	81.9-117.6		30	
LCS Dup (B076491-BSD1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Antimony	79.3	5.0	mg/Kg wet	106		74.8	8.2-218.9	2.27	30	
Arsenic	189	5.0	mg/Kg wet	182		104	83-117.6	1.17	30	
Beryllium	105	0.50	mg/Kg wet	98.3		107	83.9-116	0.138	30	
Cadmium	63.2	0.50	mg/Kg wet	60.4		105	83.1-116.9	6.32	30	
Chromium	126	1.0	mg/Kg wet	125		100	81.6-117.6	0.725	30	
Copper	81.2	1.0	mg/Kg wet	80.1		101	83.8-116.1	2.60	30	
Lead	122	1.5	mg/Kg wet	136		89.9	82.4-117.8	0.494	30	
Manganese	279	1.0	mg/Kg wet	279		100	82.8-117.5	0.177	30	
Nickel	127	1.0	mg/Kg wet	128		99.0	84.4-115.6	0.890	30	
Selenium	93.3	10	mg/Kg wet	85.9		109	80-120	7.78	30	
Silver	57.4	1.0	mg/Kg wet	61.3		93.6	66.2-133.8	2.66	30	
Thallium	136	5.0	mg/Kg wet	144		94.3	81.2-118.8	1.83	30	
Zinc	201	2.0	mg/Kg wet	204		98.6	81.9-117.6	1.17	30	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076491 - SW-846 3050B										
MRL Check (B076491-MRL1)				Prepared: 07/10/13 Analyzed: 07/11/13						
Lead	0.668	0.75	mg/Kg wet	0.746		89.5	80-120			J
Batch B076500 - SW-846 7471										
Blank (B076500-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Mercury	ND	0.025	mg/Kg wet							
LCS (B076500-BS1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Mercury	3.93	0.33	mg/Kg wet	4.05		97.1	71.6-128.1		30	
LCS Dup (B076500-BSD1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Mercury	3.46	0.33	mg/Kg wet	4.05		85.3	71.6-128.1	12.9	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076729 - % Solids										
Duplicate (B076729-DUP1)		**Source: 13G0347-01**		Prepared & Analyzed: 07/15/13						
% Solids	84.4		% Wt		84.3			0.119	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

SAJ	Shamika A. Johnson
PEB	Paula E. Blakeborough
OP	Ornela Piluri
MLA	Mathew L. Amann
MJH	Matthew J. Hammond
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
JMP	Jessica M. Pace
JMG	James M. Georgantas
ESH	Erin S. Herlihy
CMF	Chris M. Foley
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
1,4-Dioxane	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methyl Cyclohexane	NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
Atrazine	ME,NC
2-Fluorophenol	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8315 in Soil	
Formaldehyde	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0347

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: HWI
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	Preservation MeOH	Preservation HNO3	Preservation H2SO4	Preservation None	TCL VOC & 10 largest non-target peaks (TICs) (SW-846 8260B)	TCL SVOC & 10 largest non-target peaks (TICs) (SW-846 8270D)	Formaldehyde (SW-846 8315A)	Metals[1] (SW-846 6010C/7471B)					Comments
~~Trip Blank~~	-	-	~~Lab~~	S	3	2	1				x								BM
HWI-1	7/9/13	1230	BM	S	5	2	1			2	x	x	x	x					
				S	5	2	1			2	x	x	x	x					
				S	5	2	1			2	x	x	x	x					
				S	5	2	1			2	x	x	x	x					
				S	5	2	1			2	x	x	x	x					
				S	5	2	1			2	x	x	x	x					
				S	0														
				S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).
(1) Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc
VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BS	7/9/13 1830 ~~6/27/2013 14:20 BM~~	1 Fed-X	2	7/10/13 9:31	2 Paula Blakeborough
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

07-10-13 13:28 IN

C:\Users\brandy_french\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\1DIC3FPE\COC Record - Zeus (2013-06).xls

FedEx.

802540399110

Ship (P/U) date :
Tues 7/09/2013 5:55 pm
RAL US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Wed 7/10/2013 9:31 am
MA US

Travel History

Date/Time	Activity	Location
- 7/10/2013 - Wednesday		
9:31 am	Delivered	MA
8:02 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:18 am	At local FedEx facility	WINDSOR LOCKS, CT
5:59 am	At destination sort facility	EAST GRANBY, CT
4:23 am	Departed FedEx location	INDIANAPOLIS, IN
- 7/09/2013 - Tuesday		
11:51 pm	Arrived at FedEx location	INDIANAPOLIS, IN
8:48 pm	Left FedEx origin facility	RALEIGH, NC
5:55 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

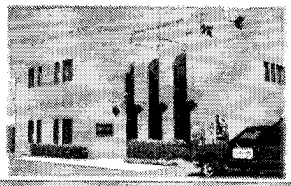
Local Scan Time

Shipment Facts

Tracking number	802540399110	**Service**	FedEx Priority Overnight
Weight	18 lbs	**Dimensions**	13x12x12 in.
Delivered To	Receptionist/Front Desk	**Total pieces**	1
Total shipment weight	18 lbs / 8.2 kgs	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.10.13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4.0 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Log in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	1
500 mL Amber		4 oz amber/clear jar	1
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 1
Bisulfate _____ # DI Water 2
Thiosulfate _____ Unpreserved

Time and Date Frozen: 07-10-13 13:29 IN

Doc# 277
Rev. 3 May 2012

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 8, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Fuel Oil UST- Lenoir, NC
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0349

Enclosed are results of analyses for samples received by the laboratory on July 9, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/8/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0349

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Fuel Oil UST- Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0349-01	Trip Blank Water		SW-846 8260B	
				SW-846 8260C	
FUST-1	13G0349-02	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
FUST-2	13G0349-03	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
FUST-3	13G0349-04	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
FUST-4	13G0349-05	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
FUST-5	13G0349-06	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
UNK-UST-1	13G0349-07	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/8/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0349

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Fuel Oil UST- Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
UNK-UST-2	13G0349-08	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076523-BS1	B076523-BSD1
C9-C18	80%	72%
C19-C36	99%	92%
C11-C22	76%	89%

EPH	B076730-BS1	B076730-BSD1
C9-C18	59%	59%
C19-C36	84%	80%
C11-C22	80%	72%

VPH	B076454-BS1	B076454-BSD1
C9-C10	99%	99%

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

C19-C36 Aliphatics, C9-C18 Aliphatics, n-Decane, n-Hexatriacontane, n-Nonane

13G0349-08[UNK-UST-2], B076730-BLK1, 13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], B076523-BLK1, B076523-BS1, B076523-BSD1, B076730-BS1, B076730-BSD1

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane, Methylene Chloride

13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], 13G0349-08[UNK-UST-2], B076569-BLK1, B076569-BS1, B076569-BSD1, B076569-MS1, 13G0349-01[Trip Blank], B076741-BLK1, B076741-BS1, B076741-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076569-BSD1, B076741-BSD1

Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

Dichlorodifluoromethane (Freon 12)

13G0349-02[FUST-1], B076569-MS1

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Chloromethane

13G0349-02[FUST-1], B076569-MS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

13G0349-01[Trip Blank], 13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], 13G0349-08[UNK-UST-2], B076569-BLK1, B076569-BS1, B076569-BSD1, B076569-MS1, B076741-BLK1, B076741-BS1, B076741-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane, Methylene Chloride

13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], 13G0349-08[UNK-UST-2], B076569-BLK1, B076569-BS1, B076569-BSD1, B076569-MS1, 13G0349-01[Trip Blank], B076741-BLK1, B076741-BS1, B076741-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA)

13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], 13G0349-08[UNK-UST-2], B076569-BLK1, B076569-BS1, B076569-BSD1, B076569-MS1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

Bromomethane

13G0349-01[Trip Blank], B076741-BLK1, B076741-BS1, B076741-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane, Bromomethane

B076741-BS1, B076741-BSD1, B076569-BS1, B076569-BSD1

SW-846 8270D

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Benzoic Acid

13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], 13G0349-08[UNK-UST-2], B076726-BLK1, B076726-BS1, B076726-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

B076726-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

1,2-Diphenylhydrazine (as Azobenzene), 2,4-Dinitrophenol, 2-Chloronaphthalene, Hexachlorocyclopentadiene, Pentachlorophenol

13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], 13G0349-08[UNK-UST-2], B076726-BLK1, B076726-BS1, B076726-BSD1

One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

B076726-BS1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzo(b)fluoranthene, Benzoic Acid, Di-n-butylphthalate, Di-n-octylphthalate, Hexachlorocyclopentadiene, Isophorone

13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], 13G0349-08[UNK-UST-2], B076726-BLK1, B076726-BS1, B076726-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene

B076726-BS1, B076726-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0349-02[FUST-1], 13G0349-03[FUST-2], 13G0349-04[FUST-3], 13G0349-05[FUST-4], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], 13G0349-08[UNK-UST-2]

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

3/4-Methylphenol, Benzo(g,h,i)perylene, Benzoic Acid

13G0349-02[FUST-1], 13G0349-06[FUST-5], 13G0349-07[UNK-UST-1], B076726-BLK1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: Trip Blank | Sampled: 7/9/2013 00:00

Sample ID: 13G0349-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.50	0.091	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Bromobenzene	ND	1.0	0.044	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Bromomethane	ND	2.0	0.94	µg/L	1	R-05, V-19	SW-846 8260B	7/15/13	7/18/13 13:14	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
tert-Butyl Alcohol (TBA)	ND	20	2.2	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
n-Butylbenzene	ND	1.0	0.054	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
sec-Butylbenzene	ND	1.0	0.084	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
tert-Butylbenzene	ND	1.0	0.096	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	0.075	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
2-Chlorotoluene	ND	1.0	0.070	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
4-Chlorotoluene	ND	1.0	0.074	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,3-Dichloropropane	ND	0.50	0.099	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
2,2-Dichloropropane	ND	1.0	0.072	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,1-Dichloropropene	ND	2.0	0.13	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
cis-1,3-Dichloropropene	ND	1.0	0.062	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Diisopropyl Ether (DIPE)	ND	0.50	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
p-Isopropyltoluene (p-Cymene)	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: Trip Blank | Sampled: 7/9/2013 00:00

Sample ID: 13G0349-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	5.0	3.2	µg/L	1	L-04, V-05	SW-846 8260B	7/15/13	7/18/13 13:14	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Naphthalene	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
n-Propylbenzene	ND	1.0	0.094	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,1,1,2-Tetrachloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Tetrahydrofuran	ND	10	1.1	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,2,3-Trichloropropane	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,2,4-Trimethylbenzene	ND	1.0	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
1,3,5-Trimethylbenzene	ND	1.0	0.10	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Vinyl Acetate	ND	20	1.3	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:14	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		7/18/13 13:14
Toluene-d8	97.3	70-130		7/18/13 13:14
4-Bromofluorobenzene	101	70-130		7/18/13 13:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: Trip Blank
Sampled: 7/9/2013 00:00

Sample ID: 13G0349-01

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1		SW-846 8260C	7/15/13	7/18/13 13:14	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349
Date Received: 7/9/2013
Field Sample #: FUST-1
Sampled: 7/9/2013 16:25
Sample ID: 13G0349-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.031	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Benzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Bromobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Bromochloromethane	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Bromodichloromethane	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Bromoform	ND	0.0027	0.0019	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Bromomethane	ND	0.013	0.0023	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 10:46	MFF
2-Butanone (MEK)	ND	0.053	0.023	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
tert-Butyl Alcohol (TBA)	ND	0.053	0.028	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 10:46	MFF
n-Butylbenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
sec-Butylbenzene	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
tert-Butylbenzene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Carbon Tetrachloride	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Chlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Chlorodibromomethane	ND	0.0053	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Chloroethane	ND	0.027	0.0020	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Chloroform	ND	0.0053	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1	L-04, MS-08, V-05	SW-846 8260B	7/11/13	7/11/13 10:46	MFF
2-Chlorotoluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
4-Chlorotoluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,2-Dichlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,3-Dichlorobenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,4-Dichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.027	0.0017	mg/Kg dry	1	MS-07	SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,1-Dichloroethane	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,2-Dichloroethane	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,1-Dichloroethylene	ND	0.0053	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
cis-1,2-Dichloroethylene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
trans-1,2-Dichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,2-Dichloropropane	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,3-Dichloropropane	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
2,2-Dichloropropane	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,1-Dichloropropene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Diisopropyl Ether (DIPE)	ND	0.0013	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Ethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
2-Hexanone (MBK)	ND	0.053	0.014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Isopropylbenzene (Cumene)	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0053	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-1 | Sampled: 7/9/2013 16:25

Sample ID: 13G0349-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.027	0.0094	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.053	0.010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Naphthalene	ND	0.0053	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
n-Propylbenzene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Styrene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Tetrachloroethylene	ND	0.0027	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Toluene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,2,3-Trichlorobenzene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,2,4-Trichlorobenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,1,1-Trichloroethane	ND	0.0027	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,1,2-Trichloroethane	ND	0.0027	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Trichloroethylene	ND	0.0027	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,2,3-Trichloropropane	ND	0.0027	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,2,4-Trimethylbenzene	ND	0.0027	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
1,3,5-Trimethylbenzene	ND	0.0027	0.00080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Vinyl Acetate	ND	0.013	0.0089	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
Vinyl Chloride	ND	0.013	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
m+p Xylene	ND	0.0053	0.0023	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF
o-Xylene	ND	0.0027	0.00093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 10:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	93.0	70-130		7/11/13 10:46
Toluene-d8	101	70-130		7/11/13 10:46
4-Bromofluorobenzene	99.5	70-130		7/11/13 10:46

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-1
Sampled: 7/9/2013 16:25

Sample ID: 13G0349-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/11/13 10:46	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-1 | Sampled: 7/9/2013 16:25

Sample ID: 13G0349-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Acenaphthylene	ND	0.20	0.099	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Benzo(a)anthracene	ND	0.20	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04, V-20	SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
1,2-Dichlorobenzene	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
1,3-Dichlorobenzene	ND	0.41	0.096	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
1,4-Dichlorobenzene	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1	R-05, V-19	SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Di-n-octylphthalate	ND	0.81	0.56	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-1 | Sampled: 7/9/2013 16:25

Sample ID: 13G0349-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-20	SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
4-Nitrophenol	ND	0.79	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/21/13 17:32	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
1,2,4-Trichlorobenzene	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 17:32	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	54.2	30-130		7/21/13 17:32
Phenol-d6	73.3	30-130		7/21/13 17:32
Nitrobenzene-d5	55.2	30-130		7/21/13 17:32
2-Fluorobiphenyl	69.6	30-130		7/21/13 17:32
2,4,6-Tribromophenol	70.1	30-130		7/21/13 17:32
p-Terphenyl-d14	82.3	30-130		7/21/13 17:32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-1
Sampled: 7/9/2013 16:25

Sample ID: 13G0349-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyclic octaatomic sulfur	0.22	mg/Kg dry	68779	12.04	1	010544-50-0	SW-846 8270D	7/15/13	7/21/13 17:32	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349
Date Received: 7/9/2013
Field Sample #: FUST-1
Sampled: 7/9/2013 16:25
Sample ID: 13G0349-02
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 15:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.9	40-140		7/12/13 15:46
o-Terphenyl (OTP)	71.6	40-140		7/12/13 15:46
2-Bromonaphthalene	86.0	40-140		7/12/13 15:46
2-Fluorobiphenyl	94.1	40-140		7/12/13 15:46

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-1 | Sampled: 7/9/2013 16:25

Sample ID: 13G0349-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.85

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
C5-C8 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
Unadjusted C9-C12 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
C9-C12 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
C9-C10 Aromatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
Benzene	ND	0.082	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
Ethylbenzene	ND	0.082	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.082	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
Naphthalene	ND	0.41	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
Toluene	ND	0.082	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
m+p Xylene	ND	0.16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH
o-Xylene	ND	0.082	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	115	70-130		7/11/13 19:19
2,5-Dibromotoluene (PID)	71.3	70-130		7/11/13 19:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-1
Sampled: 7/9/2013 16:25

Sample ID: 13G0349-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2 | Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Benzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Bromodichloromethane	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Bromoform	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 11:13	MFF
2-Butanone (MEK)	ND	0.052	0.023	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
tert-Butyl Alcohol (TBA)	ND	0.052	0.027	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 11:13	MFF
n-Butylbenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
tert-Butylbenzene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00078	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Chlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Chlorodibromomethane	ND	0.0052	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Chloroethane	ND	0.026	0.0020	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Chloroform	ND	0.0052	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1	V-05, L-04	SW-846 8260B	7/11/13	7/11/13 11:13	MFF
2-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
4-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,1-Dichloroethane	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,1-Dichloroethylene	ND	0.0052	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,3-Dichloropropane	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
2,2-Dichloropropane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Diisopropyl Ether (DIPE)	ND	0.0013	0.00078	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
2-Hexanone (MBK)	ND	0.052	0.014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2 | Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.026	0.0093	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.052	0.0099	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Naphthalene	ND	0.0052	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
n-Propylbenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Styrene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,2,3-Trichlorobenzene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,2,4-Trichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Trichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,2,4-Trimethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
1,3,5-Trimethylbenzene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Vinyl Acetate	ND	0.013	0.0087	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
m+p Xylene	ND	0.0052	0.0022	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF
o-Xylene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 11:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	95.7	70-130		7/11/13 11:13
Toluene-d8	96.8	70-130		7/11/13 11:13
4-Bromofluorobenzene	96.3	70-130		7/11/13 11:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2
Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/11/13 11:13	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2 | Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.099	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Acenaphthylene	ND	0.20	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Benzo(a)anthracene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Benzo(a)pyrene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Benzo(b)fluoranthene	ND	0.20	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Bis(2-chloroethoxy)methane	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Bis(2-chloroethyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.088	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
4-Bromophenylphenylether	ND	0.39	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Butylbenzylphthalate	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
4-Chloroaniline	ND	0.77	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
4-Chloro-3-methylphenol	ND	0.77	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2-Chloronaphthalene	ND	0.39	0.12	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2-Chlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
4-Chlorophenylphenylether	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Dibenzofuran	ND	0.39	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Di-n-butylphthalate	ND	0.39	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
1,2-Dichlorobenzene	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
1,3-Dichlorobenzene	ND	0.39	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
1,4-Dichlorobenzene	ND	0.39	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2,4-Dichlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Diethylphthalate	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2,4-Dimethylphenol	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Dimethylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2,4-Dinitrophenol	ND	0.77	0.39	mg/Kg dry	1	R-05, V-19	SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Di-n-octylphthalate	ND	0.78	0.54	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	0.19	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Hexachlorobenzene	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Hexachlorobutadiene	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Hexachloroethane	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Isophorone	ND	0.39	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/20/13 14:49	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2 | Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.075	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2-Methylnaphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
3/4-Methylphenol	ND	0.39	0.22	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Naphthalene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Nitrobenzene	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2-Nitrophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
4-Nitrophenol	ND	0.77	0.69	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/20/13 14:49	CMR
N-Nitrosodiphenylamine	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
N-Nitrosodi-n-propylamine	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Pentachlorophenol	ND	0.39	0.15	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Phenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
1,2,4-Trichlorobenzene	ND	0.39	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR
2,4,6-Trichlorophenol	ND	0.39	0.26	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 14:49	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	52.6	30-130		7/20/13 14:49
Phenol-d6	57.8	30-130		7/20/13 14:49
Nitrobenzene-d5	58.6	30-130		7/20/13 14:49
2-Fluorobiphenyl	71.2	30-130		7/20/13 14:49
2,4,6-Tribromophenol	68.3	30-130		7/20/13 14:49
p-Terphenyl-d14	66.0	30-130		7/20/13 14:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2
Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.37	mg/Kg dry	139363	14.17	1	000301-02-0	SW-846 8270D	7/15/13	7/20/13 14:49	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2 | Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 16:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.3	40-140		7/12/13 16:07
o-Terphenyl (OTP)	77.6	40-140		7/12/13 16:07
2-Bromonaphthalene	89.7	40-140		7/12/13 16:07
2-Fluorobiphenyl	98.5	40-140		7/12/13 16:07

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2 | Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.95

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
Benzene	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
Ethylbenzene	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
Naphthalene	ND	0.36	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
Toluene	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH
o-Xylene	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 19:55	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	118	70-130		7/11/13 19:55
2,5-Dibromotoluene (PID)	72.9	70-130		7/11/13 19:55

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-2
Sampled: 7/9/2013 16:30

Sample ID: 13G0349-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3 | Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Bromobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Bromodichloromethane	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 12:18	MFF
2-Butanone (MEK)	ND	0.048	0.021	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
tert-Butyl Alcohol (TBA)	ND	0.048	0.025	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 12:18	MFF
n-Butylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Carbon Tetrachloride	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Chlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Chlorodibromomethane	ND	0.0048	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Chloroform	ND	0.0048	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/11/13	7/11/13 12:18	MFF
2-Chlorotoluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
4-Chlorotoluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,1-Dichloroethane	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,2-Dichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,1-Dichloroethylene	ND	0.0048	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,2-Dichloropropane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,3-Dichloropropane	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
2,2-Dichloropropane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,1-Dichloropropene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Ethylbenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
2-Hexanone (MBK)	ND	0.048	0.013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3 | Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.024	0.0084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.048	0.0090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Naphthalene	ND	0.0048	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
n-Propylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Styrene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Tetrachloroethylene	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Toluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,2,4-Trichlorobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,2,3-Trichloropropane	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Vinyl Acetate	ND	0.012	0.0080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
m+p Xylene	ND	0.0048	0.0020	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 12:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	92.8	70-130		7/11/13 12:18
Toluene-d8	95.9	70-130		7/11/13 12:18
4-Bromofluorobenzene	96.0	70-130		7/11/13 12:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3
Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/11/13 12:18	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3 | Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Benzo(a)anthracene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Benzo(a)pyrene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
4-Chloroaniline	ND	0.81	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
4-Chloro-3-methylphenol	ND	0.81	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Chrysene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Dibenzofuran	ND	0.42	0.097	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
1,2-Dichlorobenzene	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
1,3-Dichlorobenzene	ND	0.42	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
1,4-Dichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2,4-Dinitrophenol	ND	0.81	0.41	mg/Kg dry	1	R-05, V-19	SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Di-n-octylphthalate	ND	0.82	0.57	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Hexachlorocyclopentadiene	ND	0.42	0.27	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/20/13 15:23	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3 | Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Naphthalene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
4-Nitrophenol	ND	0.81	0.73	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/20/13 15:23	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
Pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
1,2,4-Trichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:23	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	48.9	30-130		7/20/13 15:23
Phenol-d6	54.8	30-130		7/20/13 15:23
Nitrobenzene-d5	52.6	30-130		7/20/13 15:23
2-Fluorobiphenyl	65.9	30-130		7/20/13 15:23
2,4,6-Tribromophenol	63.0	30-130		7/20/13 15:23
p-Terphenyl-d14	66.6	30-130		7/20/13 15:23

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3
Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.51	mg/Kg dry	171989	14.179	1	000301-02-0	SW-846 8270D	7/15/13	7/20/13 15:23	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3 | Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:17	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.0	40-140		7/12/13 21:17
o-Terphenyl (OTP)	72.0	40-140		7/12/13 21:17
2-Bromonaphthalene	84.6	40-140		7/12/13 21:17
2-Fluorobiphenyl	91.3	40-140		7/12/13 21:17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3 | Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.99

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
Unadjusted C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
C9-C10 Aromatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
Benzene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
Ethylbenzene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
Naphthalene	ND	0.37	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
Toluene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
m+p Xylene	ND	0.15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH
o-Xylene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 20:31	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	120	70-130		7/11/13 20:31
2,5-Dibromotoluene (PID)	74.2	70-130		7/11/13 20:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-3
Sampled: 7/9/2013 16:40

Sample ID: 13G0349-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-4 | Sampled: 7/9/2013 16:50

Sample ID: 13G0349-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Benzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Bromobenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Bromodichloromethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Bromoform	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 13:40	MFF
2-Butanone (MEK)	ND	0.045	0.020	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
tert-Butyl Alcohol (TBA)	ND	0.045	0.024	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 13:40	MFF
n-Butylbenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Carbon Tetrachloride	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Chlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Chlorodibromomethane	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Chloroform	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Chloromethane	ND	0.011	0.0010	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/11/13	7/11/13 13:40	MFF
2-Chlorotoluene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
4-Chlorotoluene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,1-Dichloroethane	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,1-Dichloroethylene	ND	0.0045	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,3-Dichloropropane	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
2,2-Dichloropropane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Ethylbenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
2-Hexanone (MBK)	ND	0.045	0.012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-4 | Sampled: 7/9/2013 16:50

Sample ID: 13G0349-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.023	0.0080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.045	0.0086	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Naphthalene	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
n-Propylbenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Styrene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Toluene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,2,3-Trichlorobenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,2,4-Trichlorobenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00090	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Vinyl Acetate	ND	0.011	0.0075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF
o-Xylene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 13:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	93.5	70-130		7/11/13 13:40
Toluene-d8	102	70-130		7/11/13 13:40
4-Bromofluorobenzene	99.6	70-130		7/11/13 13:40

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-4
Sampled: 7/9/2013 16:50

Sample ID: 13G0349-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/11/13 13:40	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-4 | Sampled: 7/9/2013 16:50

Sample ID: 13G0349-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Benzo(a)anthracene	ND	0.21	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Benzo(a)pyrene	ND	0.21	0.073	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
4-Chloroaniline	ND	0.81	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
4-Chloro-3-methylphenol	ND	0.81	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Chrysene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Dibenzofuran	ND	0.42	0.097	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
1,2-Dichlorobenzene	ND	0.42	0.083	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
1,3-Dichlorobenzene	ND	0.42	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
1,4-Dichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2,4-Dinitrophenol	ND	0.81	0.42	mg/Kg dry	1	R-05, V-19	SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Di-n-octylphthalate	ND	0.82	0.57	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Hexachlorocyclopentadiene	ND	0.42	0.27	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/20/13 15:56	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-4 | Sampled: 7/9/2013 16:50

Sample ID: 13G0349-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Naphthalene	ND	0.21	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
4-Nitrophenol	ND	0.81	0.73	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/20/13 15:56	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
Pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
1,2,4-Trichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	49.3	30-130		7/20/13 15:56
Phenol-d6	57.9	30-130		7/20/13 15:56
Nitrobenzene-d5	55.5	30-130		7/20/13 15:56
2-Fluorobiphenyl	65.3	30-130		7/20/13 15:56
2,4,6-Tribromophenol	69.1	30-130		7/20/13 15:56
p-Terphenyl-d14	62.6	30-130		7/20/13 15:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-4
Sampled: 7/9/2013 16:50

Sample ID: 13G0349-05

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/15/13	7/20/13 15:56	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349
Date Received: 7/9/2013
Field Sample #: FUST-4
Sampled: 7/9/2013 16:50
Sample ID: 13G0349-05
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.5	40-140		7/12/13 21:38
o-Terphenyl (OTP)	77.7	40-140		7/12/13 21:38
2-Bromonaphthalene	92.9	40-140		7/12/13 21:38
2-Fluorobiphenyl	99.8	40-140		7/12/13 21:38

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-4 | Sampled: 7/9/2013 16:50

Sample ID: 13G0349-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.00

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
Unadjusted C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
C9-C10 Aromatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
Benzene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
Ethylbenzene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
Naphthalene	ND	0.37	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
Toluene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
m+p Xylene	ND	0.15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH
o-Xylene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:07	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	119	70-130		7/11/13 21:07
2,5-Dibromotoluene (PID)	74.4	70-130		7/11/13 21:07

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-4
Sampled: 7/9/2013 16:50

Sample ID: 13G0349-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.1		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349
Date Received: 7/9/2013
Field Sample #: FUST-5
Sampled: 7/9/2013 17:00
Sample ID: 13G0349-06
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Benzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Bromobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Bromodichloromethane	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Bromoform	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 14:08	MFF
2-Butanone (MEK)	ND	0.048	0.021	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
tert-Butyl Alcohol (TBA)	ND	0.048	0.025	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 14:08	MFF
n-Butylbenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Carbon Tetrachloride	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Chlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Chlorodibromomethane	ND	0.0048	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Chloroform	ND	0.0048	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/11/13	7/11/13 14:08	MFF
2-Chlorotoluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
4-Chlorotoluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,2-Dibromoethane (EDB)	ND	0.0012	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,1-Dichloroethane	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,1-Dichloroethylene	ND	0.0048	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,3-Dichloropropane	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
2,2-Dichloropropane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,1-Dichloropropene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Diisopropyl Ether (DIPE)	ND	0.0012	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Ethylbenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
2-Hexanone (MBK)	ND	0.048	0.013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-5 | Sampled: 7/9/2013 17:00

Sample ID: 13G0349-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.024	0.0085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.048	0.0091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Naphthalene	ND	0.0048	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
n-Propylbenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Styrene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Toluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,2,3-Trichlorobenzene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,2,4-Trichlorobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,2,3-Trichloropropane	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Vinyl Acetate	ND	0.012	0.0081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
m+p Xylene	ND	0.0048	0.0020	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF
o-Xylene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:08	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	92.4	70-130		7/11/13 14:08
Toluene-d8	98.9	70-130		7/11/13 14:08
4-Bromofluorobenzene	96.9	70-130		7/11/13 14:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-5
Sampled: 7/9/2013 17:00

Sample ID: 13G0349-06

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/11/13 14:08	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-5 | Sampled: 7/9/2013 17:00

Sample ID: 13G0349-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Benzo(a)anthracene	ND	0.21	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Benzo(a)pyrene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04, V-20	SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Bis(2-chloroethoxy)methane	ND	0.42	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.42	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
4-Chloroaniline	ND	0.81	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
4-Chloro-3-methylphenol	ND	0.81	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2-Chlorophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Chrysene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Dibenzofuran	ND	0.42	0.097	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
1,2-Dichlorobenzene	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
1,3-Dichlorobenzene	ND	0.42	0.099	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
1,4-Dichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2,4-Dinitrophenol	ND	0.81	0.42	mg/Kg dry	1	R-05, V-19	SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Di-n-octylphthalate	ND	0.83	0.57	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Hexachlorocyclopentadiene	ND	0.42	0.28	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Isophorone	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-5 | Sampled: 7/9/2013 17:00

Sample ID: 13G0349-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.21	0.080	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1	V-20	SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Naphthalene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2-Nitrophenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
4-Nitrophenol	ND	0.81	0.74	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/21/13 18:02	CMR
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Pentachlorophenol	ND	0.42	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
Pyrene	ND	0.21	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
1,2,4-Trichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:02	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	60.6	30-130		7/21/13 18:02
Phenol-d6	68.6	30-130		7/21/13 18:02
Nitrobenzene-d5	62.6	30-130		7/21/13 18:02
2-Fluorobiphenyl	78.5	30-130		7/21/13 18:02
2,4,6-Tribromophenol	63.4	30-130		7/21/13 18:02
p-Terphenyl-d14	84.1	30-130		7/21/13 18:02

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-5
Sampled: 7/9/2013 17:00

Sample ID: 13G0349-06

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.52	mg/Kg dry	111528	14.145	1	000301-02-0	SW-846 8270D	7/15/13	7/21/13 18:02	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349
Date Received: 7/9/2013
Field Sample #: FUST-5
Sampled: 7/9/2013 17:00
Sample ID: 13G0349-06
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 21:58	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	71.4	40-140		7/12/13 21:58
o-Terphenyl (OTP)	68.9	40-140		7/12/13 21:58
2-Bromonaphthalene	80.0	40-140		7/12/13 21:58
2-Fluorobiphenyl	86.3	40-140		7/12/13 21:58

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-5 | Sampled: 7/9/2013 17:00

Sample ID: 13G0349-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.93

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
C5-C8 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
Unadjusted C9-C12 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
C9-C12 Aliphatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
C9-C10 Aromatics	ND	16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
Benzene	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
Ethylbenzene	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
Naphthalene	ND	0.39	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
Toluene	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
m+p Xylene	ND	0.16	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH
o-Xylene	ND	0.079	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 21:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	124	70-130		7/11/13 21:43
2,5-Dibromotoluene (PID)	77.9	70-130		7/11/13 21:43

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: FUST-5
Sampled: 7/9/2013 17:00

Sample ID: 13G0349-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1 | Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.070	0.11	0.025	mg/Kg dry	1	J	SW-846 8260B	7/11/13	7/11/13 14:36	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Benzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Bromobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Bromodichloromethane	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Bromoform	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 14:36	MFF
2-Butanone (MEK)	ND	0.042	0.019	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
tert-Butyl Alcohol (TBA)	ND	0.042	0.022	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 14:36	MFF
n-Butylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
sec-Butylbenzene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
tert-Butylbenzene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00063	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Carbon Tetrachloride	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Chlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Chlorodibromomethane	ND	0.0042	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Chloroform	ND	0.0042	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Chloromethane	ND	0.011	0.00095	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/11/13	7/11/13 14:36	MFF
2-Chlorotoluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
4-Chlorotoluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,1-Dichloroethane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,1-Dichloroethylene	ND	0.0042	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,3-Dichloropropane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
2,2-Dichloropropane	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,1-Dichloropropene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Diisopropyl Ether (DIPE)	ND	0.0011	0.00063	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Ethylbenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
2-Hexanone (MBK)	ND	0.042	0.012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1 | Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.021	0.0075	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.042	0.0080	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Naphthalene	ND	0.0042	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
n-Propylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Styrene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Toluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,2,3-Trichlorobenzene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,2,4-Trichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Trichloroethylene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,2,3-Trichloropropane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Vinyl Acetate	ND	0.011	0.0071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
m+p Xylene	ND	0.0042	0.0018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF
o-Xylene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 14:36	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	92.6	70-130		7/11/13 14:36
Toluene-d8	99.2	70-130		7/11/13 14:36
4-Bromofluorobenzene	92.8	70-130		7/11/13 14:36

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1
Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/11/13	7/11/13 14:36	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1 | Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Benzo(a)pyrene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04, V-20	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
4-Bromophenylphenylether	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2-Chloronaphthalene	ND	0.40	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Dibenzofuran	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
1,2-Dichlorobenzene	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
1,3-Dichlorobenzene	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
1,4-Dichlorobenzene	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2,4-Dinitrophenol	ND	0.79	0.40	mg/Kg dry	1	R-05, V-19	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Di-n-octylphthalate	ND	0.80	0.55	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.19	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Hexachlorocyclopentadiene	ND	0.40	0.27	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1 | Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1	V-20	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Naphthalene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
N-Nitrosodiphenylamine	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
1,2,4-Trichlorobenzene	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/15/13	7/21/13 18:32	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	51.4	30-130		7/21/13 18:32
Phenol-d6	60.0	30-130		7/21/13 18:32
Nitrobenzene-d5	51.7	30-130		7/21/13 18:32
2-Fluorobiphenyl	72.2	30-130		7/21/13 18:32
2,4,6-Tribromophenol	56.7	30-130		7/21/13 18:32
p-Terphenyl-d14	79.8	30-130		7/21/13 18:32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1
Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.21	mg/Kg dry	50005	14.145	1	000301-02-0	SW-846 8270D	7/15/13	7/21/13 18:32	CMR
Cyclic octaatomic sulfur	1.6	mg/Kg dry	431890	12.043	1	010544-50-0	SW-846 8270D	7/15/13	7/21/13 18:32	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1 | Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/11/13	7/12/13 22:19	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.9	40-140		7/12/13 22:19
o-Terphenyl (OTP)	73.7	40-140		7/12/13 22:19
2-Bromonaphthalene	89.6	40-140		7/12/13 22:19
2-Fluorobiphenyl	99.1	40-140		7/12/13 22:19

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1 | Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.03

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
Benzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
Ethylbenzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
Toluene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH
o-Xylene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/11/13 22:19	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	117	70-130		7/11/13 22:19
2,5-Dibromotoluene (PID)	113	70-130		7/11/13 22:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-1
Sampled: 7/9/2013 17:10

Sample ID: 13G0349-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.5		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2 | Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.10	0.10	0.024	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Bromobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Bromoform	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1	R-05	SW-846 8260B	7/11/13	7/11/13 15:04	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg dry	1	V-16	SW-846 8260B	7/11/13	7/11/13 15:04	MFF
n-Butylbenzene	0.0017	0.0020	0.00071	mg/Kg dry	1	J	SW-846 8260B	7/11/13	7/11/13 15:04	MFF
sec-Butylbenzene	0.0024	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
tert-Butylbenzene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00060	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Chlorodibromomethane	ND	0.0040	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Chloroform	ND	0.0040	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Chloromethane	ND	0.010	0.00091	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/11/13	7/11/13 15:04	MFF
2-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
4-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,2-Dibromoethane (EDB)	ND	0.0010	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,3-Dichloropropane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
2,2-Dichloropropane	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,1-Dichloropropene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Diisopropyl Ether (DIPE)	ND	0.0010	0.00060	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Ethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
2-Hexanone (MBK)	ND	0.040	0.011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2 | Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.020	0.0072	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.040	0.0077	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Naphthalene	0.023	0.0040	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
n-Propylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Styrene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,2,3-Trichlorobenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,2,4-Trichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Trichloroethylene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,2,4-Trimethylbenzene	0.0017	0.0020	0.00081	mg/Kg dry	1	J	SW-846 8260B	7/11/13	7/11/13 15:04	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Vinyl Acetate	ND	0.010	0.0067	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/11/13	7/11/13 15:04	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	92.8	70-130		7/11/13 15:04
Toluene-d8	99.2	70-130		7/11/13 15:04
4-Bromofluorobenzene	96.5	70-130		7/11/13 15:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2
Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene, (1-methyl-1-butenyl)-	0.0069	mg/Kg dry	397863	11.91	1	053172-84-2	SW-846 8260C	7/11/13	7/11/13 15:04	MFF
Benzene, 2-ethenyl-1,4-dime...	0.014	mg/Kg dry	824955	11.52	1	002039-89-6	SW-846 8260C	7/11/13	7/11/13 15:04	MFF
Naphthalene, 1,2,3,4-tetrah... (02)	0.010	mg/Kg dry	594317	12.736	1	002809-64-5	SW-846 8260C	7/11/13	7/11/13 15:04	MFF
Naphthalene, 1-methyl- (01)	0.010	mg/Kg dry	581633	13.254	1	000090-12-0	SW-846 8260C	7/11/13	7/11/13 15:04	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC Sample Description: Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2 Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
1,2-Dichlorobenzene	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
1,3-Dichlorobenzene	ND	0.41	0.096	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
1,4-Dichlorobenzene	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1	R-05, V-19	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.20	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	R-05, V-05	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/20/13 16:29	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2 | Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	0.095	0.20	0.078	mg/Kg dry	1	J	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2-Methylnaphthalene	0.11	0.20	0.11	mg/Kg dry	1	J	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1	R-05	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
1,2,4-Trichlorobenzene	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/15/13	7/20/13 16:29	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	52.3	30-130		7/20/13 16:29
Phenol-d6	61.3	30-130		7/20/13 16:29
Nitrobenzene-d5	59.4	30-130		7/20/13 16:29
2-Fluorobiphenyl	71.3	30-130		7/20/13 16:29
2,4,6-Tribromophenol	79.4	30-130		7/20/13 16:29
p-Terphenyl-d14	78.2	30-130		7/20/13 16:29

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2
Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.59	mg/Kg dry	247492	14.182	1	000301-02-0	SW-846 8270D	7/15/13	7/20/13 16:29	CMR
Cyclic octaatomic sulfur	0.86	mg/Kg dry	367744	12.08	1	010544-50-0	SW-846 8270D	7/15/13	7/20/13 16:29	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2 | Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 13:35	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	56.1	40-140		7/17/13 13:35
o-Terphenyl (OTP)	59.5	40-140		7/17/13 13:35
2-Bromonaphthalene	59.7	40-140		7/17/13 13:35
2-Fluorobiphenyl	61.9	40-140		7/17/13 13:35

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC | Sample Description: | Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2 | Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.09

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
Benzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
Ethylbenzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
Toluene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH
o-Xylene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/11/13	7/12/13 1:21	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	116	70-130		7/12/13 1:21
2,5-Dibromotoluene (PID)	112	70-130		7/12/13 1:21

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Fuel Oil UST- Lenoir, NC
Sample Description:
Work Order: 13G0349

Date Received: 7/9/2013

Field Sample #: UNK-UST-2
Sampled: 7/9/2013 17:15

Sample ID: 13G0349-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0349-02 [FUST-1]	B076523	20.4	2.00	07/11/13
13G0349-03 [FUST-2]	B076523	20.4	2.00	07/11/13
13G0349-04 [FUST-3]	B076523	20.0	2.00	07/11/13
13G0349-05 [FUST-4]	B076523	20.1	2.00	07/11/13
13G0349-06 [FUST-5]	B076523	20.3	2.00	07/11/13
13G0349-07 [UNK-UST-1]	B076523	20.5	2.00	07/11/13

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0349-08 [UNK-UST-2]	B076730	20.1	2.00	07/15/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0349-02 [FUST-1]	B076454	12.8	17.3	07/11/13
13G0349-03 [FUST-2]	B076454	14.3	17.3	07/11/13
13G0349-04 [FUST-3]	B076454	14.8	17.8	07/11/13
13G0349-05 [FUST-4]	B076454	15.0	17.9	07/11/13
13G0349-06 [FUST-5]	B076454	14.0	17.8	07/11/13
13G0349-07 [UNK-UST-1]	B076454	15.5	17.7	07/11/13
13G0349-08 [UNK-UST-2]	B076454	16.3	18.1	07/11/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0349-02 [FUST-1]	B076775	07/15/13
13G0349-03 [FUST-2]	B076775	07/15/13
13G0349-04 [FUST-3]	B076775	07/15/13
13G0349-05 [FUST-4]	B076775	07/15/13
13G0349-06 [FUST-5]	B076775	07/15/13
13G0349-07 [UNK-UST-1]	B076775	07/15/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0349-08 [UNK-UST-2]	B076932	07/17/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0349-02 [FUST-1]	B076569	4.54	10.0	07/11/13
13G0349-03 [FUST-2]	B076569	4.53	10.0	07/11/13
13G0349-04 [FUST-3]	B076569	5.15	10.0	07/11/13
13G0349-05 [FUST-4]	B076569	5.48	10.0	07/11/13
13G0349-06 [FUST-5]	B076569	5.14	10.0	07/11/13
13G0349-07 [UNK-UST-1]	B076569	5.66	10.0	07/11/13
13G0349-08 [UNK-UST-2]	B076569	6.06	10.0	07/11/13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0349-01 [Trip Blank]	B076741	5	5.00	07/15/13

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0349-02 [FUST-1]	B076726	30.1	1.00	07/15/13
13G0349-03 [FUST-2]	B076726	30.5	1.00	07/15/13
13G0349-04 [FUST-3]	B076726	30.0	1.00	07/15/13
13G0349-05 [FUST-4]	B076726	30.2	1.00	07/15/13
13G0349-06 [FUST-5]	B076726	30.1	1.00	07/15/13
13G0349-07 [UNK-UST-1]	B076726	30.2	1.00	07/15/13
13G0349-08 [UNK-UST-2]	B076726	30.6	1.00	07/15/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							R-05
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04, V-05
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035												
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13								
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Acetate	ND	0.010	mg/Kg wet									
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0472*		mg/Kg wet	0.0500		94.4		70-130				
Surrogate: Toluene-d8	*0.0504*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		98.0		70-130				
LCS (B076569-BS1)				Prepared & Analyzed: 07/11/13								
Acetone	0.180	0.10	mg/Kg wet	0.200		89.8		70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0226	0.0010	mg/Kg wet	0.0200		113		70-130		25		
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.5		70-130		25		
Bromobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.1		70-130		25		
Bromochloromethane	0.0187	0.0020	mg/Kg wet	0.0200		93.6		70-130		25		
Bromodichloromethane	0.0171	0.0020	mg/Kg wet	0.0200		85.4		70-130		25		
Bromoform	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130		25		
Bromomethane	0.0211	0.010	mg/Kg wet	0.0200		106		40-130		25	R-05, V-20	†
2-Butanone (MEK)	0.173	0.040	mg/Kg wet	0.200		86.3		70-160		25		†
tert-Butyl Alcohol (TBA)	0.166	0.040	mg/Kg wet	0.200		83.1		40-130		25	V-16	†
n-Butylbenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4		70-130		25		
sec-Butylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130		25		
tert-Butylbenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0195	0.0010	mg/Kg wet	0.0200		97.3		70-130		25		
Carbon Tetrachloride	0.0184	0.0020	mg/Kg wet	0.0200		91.9		70-130		25		
Chlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130		25		
Chlorodibromomethane	0.0186	0.0010	mg/Kg wet	0.0200		93.0		70-130		25		
Chloroethane	0.0221	0.020	mg/Kg wet	0.0200		110		70-130		25		
Chloroform	0.0177	0.0040	mg/Kg wet	0.0200		88.3		70-130		25		
Chloromethane	0.00978	0.010	mg/Kg wet	0.0200		**48.9**	*	70-130		25	J, L-04, V-05	
2-Chlorotoluene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130		25		
4-Chlorotoluene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,2-Dibromoethane (EDB)	0.0198	0.0010	mg/Kg wet	0.0200		99.0		70-130		25		
1,2-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130		25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,4-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0107	0.020	mg/Kg wet	0.0200		53.4		40-160		25	J	†
1,1-Dichloroethane	0.0163	0.0020	mg/Kg wet	0.0200		81.4		70-130		25		
1,2-Dichloroethane	0.0169	0.0020	mg/Kg wet	0.0200		84.3		70-130		25		
1,1-Dichloroethylene	0.0195	0.0040	mg/Kg wet	0.0200		97.3		70-130		25		
cis-1,2-Dichloroethylene	0.0169	0.0020	mg/Kg wet	0.0200		84.6		70-130		25		
trans-1,2-Dichloroethylene	0.0164	0.0020	mg/Kg wet	0.0200		82.1		70-130		25		
1,2-Dichloropropane	0.0186	0.0020	mg/Kg wet	0.0200		93.0		70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035											
LCS (B076569-BS1)				Prepared & Analyzed: 07/11/13							
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130		25		
2,2-Dichloropropane	0.0178	0.0020	mg/Kg wet	0.0200		89.1	70-130		25		
1,1-Dichloropropene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130		25		
cis-1,3-Dichloropropene	0.0189	0.0010	mg/Kg wet	0.0200		94.3	70-130		25		
trans-1,3-Dichloropropene	0.0206	0.0010	mg/Kg wet	0.0200		103	70-130		25		
Diisopropyl Ether (DIPE)	0.0189	0.0010	mg/Kg wet	0.0200		94.3	70-130		25		
Ethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7	70-130		25		
2-Hexanone (MBK)	0.190	0.020	mg/Kg wet	0.200		95.1	70-160		25		†
Isopropylbenzene (Cumene)	0.0195	0.0020	mg/Kg wet	0.0200		97.6	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0193	0.0040	mg/Kg wet	0.0200		96.3	70-130		25		
Methylene Chloride	0.0169	0.020	mg/Kg wet	0.0200		84.5	40-160		25	J	†
4-Methyl-2-pentanone (MIBK)	0.190	0.020	mg/Kg wet	0.200		94.8	70-160		25		†
Naphthalene	0.0179	0.0040	mg/Kg wet	0.0200		89.3	40-130		25		†
n-Propylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Styrene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130		25		
1,1,1,2-Tetrachloroethane	0.0178	0.0020	mg/Kg wet	0.0200		88.9	70-130		25		
1,1,2,2-Tetrachloroethane	0.0197	0.0010	mg/Kg wet	0.0200		98.5	70-130		25		
Tetrachloroethylene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130		25		
Toluene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130		25		
1,2,3-Trichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.7	70-130		25		
1,2,4-Trichlorobenzene	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130		25		
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.5	70-130		25		
1,1,2-Trichloroethane	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130		25		
Trichloroethylene	0.0171	0.0020	mg/Kg wet	0.0200		85.6	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0223	0.010	mg/Kg wet	0.0200		112	70-130		25		
1,2,3-Trichloropropane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130		25		
1,2,4-Trimethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130		25		
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130		25		
Vinyl Acetate	0.167	0.010	mg/Kg wet	0.200		83.4	70-130		25		
Vinyl Chloride	0.0149	0.010	mg/Kg wet	0.0200		74.4	40-130		25		†
m+p Xylene	0.0400	0.0040	mg/Kg wet	0.0400		99.9	70-130		25		
o-Xylene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0470*		mg/Kg wet	0.0500		93.9	70-130				
Surrogate: Toluene-d8	*0.0514*		mg/Kg wet	0.0500		103	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0507*		mg/Kg wet	0.0500		101	70-130				
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13							
Acetone	0.209	0.10	mg/Kg wet	0.200		104	70-160	15.0	25		†
tert-Amyl Methyl Ether (TAME)	0.0248	0.0010	mg/Kg wet	0.0200		124	70-130	9.36	25		
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	12.5	25		
Bromobenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	6.96	25		
Bromochloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	9.85	25		
Bromodichloromethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	11.8	25		
Bromoform	0.0177	0.0020	mg/Kg wet	0.0200		88.7	70-130	5.09	25		
Bromomethane	0.0303	0.010	mg/Kg wet	0.0200		**151** *	40-130	**35.7** *	25	L-07A, R-05, V-20	†
2-Butanone (MEK)	0.198	0.040	mg/Kg wet	0.200		99.0	70-160	13.8	25		†
tert-Butyl Alcohol (TBA)	0.176	0.040	mg/Kg wet	0.200		87.9	40-130	5.64	25	V-16	†
n-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9	70-130	5.84	25		
sec-Butylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130	6.82	25		
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-160	4.71	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	14.8	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076569 - SW-846 5035												
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13								
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	9.24	25		
Chlorobenzene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	9.68	25		
Chlorodibromomethane	0.0200	0.0010	mg/Kg wet	0.0200		100		70-130	7.35	25		
Chloroethane	0.0247	0.020	mg/Kg wet	0.0200		124		70-130	11.4	25		
Chloroform	0.0200	0.0040	mg/Kg wet	0.0200		99.9		70-130	12.3	25		
Chloromethane	0.0105	0.010	mg/Kg wet	0.0200		**52.4**	*	70-130	6.91	25	L-04, V-05	
2-Chlorotoluene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	6.14	25		
4-Chlorotoluene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	5.84	25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		109		70-130	9.25	25		
1,2-Dichlorobenzene	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130	9.17	25		
1,3-Dichlorobenzene	0.0234	0.0020	mg/Kg wet	0.0200		117		70-130	10.1	25		
1,4-Dichlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.4		70-130	3.38	25		
Dichlorodifluoromethane (Freon 12)	0.0114	0.020	mg/Kg wet	0.0200		57.1		40-160	6.70	25	J	†
1,1-Dichloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1		70-130	16.6	25		
1,2-Dichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.4		70-130	14.4	25		
1,1-Dichloroethylene	0.0202	0.0040	mg/Kg wet	0.0200		101		70-130	3.73	25		
cis-1,2-Dichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9		70-130	10.4	25		
trans-1,2-Dichloroethylene	0.0186	0.0020	mg/Kg wet	0.0200		93.2		70-130	12.7	25		
1,2-Dichloropropane	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	8.74	25		
1,3-Dichloropropane	0.0222	0.0010	mg/Kg wet	0.0200		111		70-130	9.74	25		
2,2-Dichloropropane	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	12.7	25		
1,1-Dichloropropene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	17.0	25		
cis-1,3-Dichloropropene	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130	13.8	25		
trans-1,3-Dichloropropene	0.0241	0.0010	mg/Kg wet	0.0200		121		70-130	15.7	25		
Diisopropyl Ether (DIPE)	0.0207	0.0010	mg/Kg wet	0.0200		104		70-130	9.30	25		
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130	8.07	25		
2-Hexanone (MBK)	0.205	0.020	mg/Kg wet	0.200		102		70-160	7.37	25		†
Isopropylbenzene (Cumene)	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130	7.40	25		
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130	4.50	25		
Methyl tert-Butyl Ether (MTBE)	0.0216	0.0040	mg/Kg wet	0.0200		108		70-130	11.6	25		
Methylene Chloride	0.0186	0.020	mg/Kg wet	0.0200		93.1		40-160	9.68	25	J	†
4-Methyl-2-pentanone (MIBK)	0.206	0.020	mg/Kg wet	0.200		103		70-160	8.51	25		†
Naphthalene	0.0189	0.0040	mg/Kg wet	0.0200		94.7		40-130	5.87	25		†
n-Propylbenzene	0.0231	0.0020	mg/Kg wet	0.0200		115		70-130	8.40	25		
Styrene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	8.46	25		
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1		70-130	10.9	25		
1,1,2,2-Tetrachloroethane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130	9.94	25		
Tetrachloroethylene	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	7.35	25		
Toluene	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130	12.4	25		
1,2,3-Trichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9		70-130	2.30	25		
1,2,4-Trichlorobenzene	0.0237	0.0020	mg/Kg wet	0.0200		119		70-130	5.10	25		
1,1,1-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		99.8		70-130	8.68	25		
1,1,2-Trichloroethane	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130	5.13	25		
Trichloroethylene	0.0188	0.0020	mg/Kg wet	0.0200		93.9		70-130	9.25	25		
Trichlorofluoromethane (Freon 11)	0.0224	0.010	mg/Kg wet	0.0200		112		70-130	0.179	25		
1,2,3-Trichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130	4.53	25		
1,2,4-Trimethylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.7		70-130	7.06	25		
1,3,5-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	6.01	25		
Vinyl Acetate	0.182	0.010	mg/Kg wet	0.200		90.8		70-130	8.49	25		
Vinyl Chloride	0.0170	0.010	mg/Kg wet	0.0200		85.2		40-130	13.5	25		†
m+p Xylene	0.0431	0.0040	mg/Kg wet	0.0400		108		70-130	7.65	25		
o-Xylene	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130	9.78	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035											
LCS Dup (B076569-BSD1)				Prepared & Analyzed: 07/11/13							
Surrogate: 1,2-Dichloroethane-d4	*0.0464*		mg/Kg wet	0.0500		92.8		70-130			
Surrogate: Toluene-d8	*0.0515*		mg/Kg wet	0.0500		103		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0490*		mg/Kg wet	0.0500		98.0		70-130			
Matrix Spike (B076569-MS1)		**Source: 13G0349-02**		Prepared & Analyzed: 07/11/13							
Acetone	0.230	0.12	mg/Kg dry	0.242	ND	95.3		70-130		30	
tert-Amyl Methyl Ether (TAME)	0.0256	0.0012	mg/Kg dry	0.0242	ND	106		70-130		30	
Benzene	0.0240	0.0024	mg/Kg dry	0.0242	ND	99.4		70-130		30	
Bromobenzene	0.0222	0.0024	mg/Kg dry	0.0242	ND	92.1		70-130		30	
Bromochloromethane	0.0242	0.0024	mg/Kg dry	0.0242	ND	100		70-130		30	
Bromodichloromethane	0.0216	0.0024	mg/Kg dry	0.0242	ND	89.6		70-130		30	
Bromoform	0.0196	0.0024	mg/Kg dry	0.0242	ND	81.3		70-130		30	
Bromomethane	0.0266	0.012	mg/Kg dry	0.0242	ND	110		70-130		30	R-05
2-Butanone (MEK)	0.185	0.048	mg/Kg dry	0.242	ND	76.6		70-130		30	
tert-Butyl Alcohol (TBA)	0.170	0.048	mg/Kg dry	0.242	ND	70.4		70-130		30	V-16
n-Butylbenzene	0.0210	0.0024	mg/Kg dry	0.0242	ND	86.9		70-130		30	
sec-Butylbenzene	0.0224	0.0024	mg/Kg dry	0.0242	ND	92.9		70-130		30	
tert-Butylbenzene	0.0221	0.0024	mg/Kg dry	0.0242	ND	91.7		70-130		30	
tert-Butyl Ethyl Ether (TBEE)	0.0235	0.0012	mg/Kg dry	0.0242	ND	97.3		70-130		30	
Carbon Tetrachloride	0.0227	0.0024	mg/Kg dry	0.0242	ND	94.1		70-130		30	
Chlorobenzene	0.0234	0.0024	mg/Kg dry	0.0242	ND	97.0		70-130		30	
Chlorodibromomethane	0.0220	0.0012	mg/Kg dry	0.0242	ND	91.2		70-130		30	
Chloroethane	0.0238	0.024	mg/Kg dry	0.0242	ND	98.5		70-130		30	J
Chloroform	0.0226	0.0048	mg/Kg dry	0.0242	ND	93.6		70-130		30	
Chloromethane	0.0120	0.012	mg/Kg dry	0.0242	ND	**49.8**	*	70-130		30	J, L-04, MS-08, V-05
2-Chlorotoluene	0.0248	0.0024	mg/Kg dry	0.0242	ND	102		70-130		30	
4-Chlorotoluene	0.0254	0.0024	mg/Kg dry	0.0242	ND	105		70-130		30	
1,2-Dibromoethane (EDB)	0.0242	0.0012	mg/Kg dry	0.0242	ND	100		70-130		30	
1,2-Dichlorobenzene	0.0243	0.0024	mg/Kg dry	0.0242	ND	101		70-130		30	
1,3-Dichlorobenzene	0.0238	0.0024	mg/Kg dry	0.0242	ND	98.7		70-130		30	
1,4-Dichlorobenzene	0.0219	0.0024	mg/Kg dry	0.0242	ND	90.5		70-130		30	
Dichlorodifluoromethane (Freon 12)	0.0129	0.024	mg/Kg dry	0.0242	ND	**53.6**	*	70-130		30	J, MS-07
1,1-Dichloroethane	0.0208	0.0024	mg/Kg dry	0.0242	ND	86.0		70-130		30	
1,2-Dichloroethane	0.0229	0.0024	mg/Kg dry	0.0242	ND	94.8		70-130		30	
1,1-Dichloroethylene	0.0229	0.0048	mg/Kg dry	0.0242	ND	95.0		70-130		30	
cis-1,2-Dichloroethylene	0.0208	0.0024	mg/Kg dry	0.0242	ND	86.3		70-130		30	
trans-1,2-Dichloroethylene	0.0200	0.0024	mg/Kg dry	0.0242	ND	82.9		70-130		30	
1,2-Dichloropropane	0.0228	0.0024	mg/Kg dry	0.0242	ND	94.2		70-130		30	
1,3-Dichloropropane	0.0250	0.0012	mg/Kg dry	0.0242	ND	104		70-130		30	
2,2-Dichloropropane	0.0214	0.0024	mg/Kg dry	0.0242	ND	88.5		70-130		30	
1,1-Dichloropropene	0.0232	0.0024	mg/Kg dry	0.0242	ND	96.2		70-130		30	
cis-1,3-Dichloropropene	0.0219	0.0012	mg/Kg dry	0.0242	ND	90.7		70-130		30	
trans-1,3-Dichloropropene	0.0247	0.0012	mg/Kg dry	0.0242	ND	102		70-130		30	
Diisopropyl Ether (DIPE)	0.0221	0.0012	mg/Kg dry	0.0242	ND	91.4		70-130		30	
Ethylbenzene	0.0235	0.0024	mg/Kg dry	0.0242	ND	97.2		70-130		30	
2-Hexanone (MBK)	0.208	0.024	mg/Kg dry	0.242	ND	86.0		70-130		30	
Isopropylbenzene (Cumene)	0.0231	0.0024	mg/Kg dry	0.0242	ND	95.5		70-130		30	
p-Isopropyltoluene (p-Cymene)	0.0252	0.0024	mg/Kg dry	0.0242	ND	104		70-130		30	
Methyl tert-Butyl Ether (MTBE)	0.0235	0.0048	mg/Kg dry	0.0242	ND	97.4		70-130		30	
Methylene Chloride	0.0236	0.024	mg/Kg dry	0.0242	ND	97.8		70-130		30	J
4-Methyl-2-pentanone (MIBK)	0.212	0.024	mg/Kg dry	0.242	ND	87.7		70-130		30	
Naphthalene	0.0192	0.0048	mg/Kg dry	0.0242	ND	79.4		70-130		30	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
Matrix Spike (B076569-MS1)		**Source: 13G0349-02**		Prepared & Analyzed: 07/11/13						
n-Propylbenzene	0.0245	0.0024	mg/Kg dry	0.0242	ND	101	70-130		30	
Styrene	0.0219	0.0024	mg/Kg dry	0.0242	ND	90.6	70-130		30	
1,1,1,2-Tetrachloroethane	0.0215	0.0024	mg/Kg dry	0.0242	ND	89.0	70-130		30	
1,1,2,2-Tetrachloroethane	0.0225	0.0012	mg/Kg dry	0.0242	ND	93.0	70-130		30	
Tetrachloroethylene	0.0244	0.0024	mg/Kg dry	0.0242	ND	101	70-130		30	
Toluene	0.0248	0.0024	mg/Kg dry	0.0242	ND	103	70-130		30	
1,2,3-Trichlorobenzene	0.0199	0.0024	mg/Kg dry	0.0242	ND	82.4	70-130		30	
1,2,4-Trichlorobenzene	0.0236	0.0024	mg/Kg dry	0.0242	ND	97.8	70-130		30	
1,1,1-Trichloroethane	0.0223	0.0024	mg/Kg dry	0.0242	ND	92.3	70-130		30	
1,1,2-Trichloroethane	0.0214	0.0024	mg/Kg dry	0.0242	ND	88.5	70-130		30	
Trichloroethylene	0.0210	0.0024	mg/Kg dry	0.0242	ND	87.1	70-130		30	
Trichlorofluoromethane (Freon 11)	0.0251	0.012	mg/Kg dry	0.0242	ND	104	70-130		30	
1,2,3-Trichloropropane	0.0214	0.0024	mg/Kg dry	0.0242	ND	88.4	70-130		30	
1,2,4-Trimethylbenzene	0.0208	0.0024	mg/Kg dry	0.0242	ND	86.2	70-130		30	
1,3,5-Trimethylbenzene	0.0218	0.0024	mg/Kg dry	0.0242	ND	90.3	70-130		30	
Vinyl Acetate	0.170	0.012	mg/Kg dry	0.242	ND	70.5	70-130		30	
Vinyl Chloride	0.0198	0.012	mg/Kg dry	0.0242	ND	81.8	70-130		30	
m+p Xylene	0.0472	0.0048	mg/Kg dry	0.0483	ND	97.7	70-130		20	
o-Xylene	0.0230	0.0024	mg/Kg dry	0.0242	ND	95.4	70-130		30	
Surrogate: 1,2-Dichloroethane-d4	*0.0560*		mg/Kg dry	0.0604		92.8	70-130			
Surrogate: Toluene-d8	*0.0615*		mg/Kg dry	0.0604		102	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0602*		mg/Kg dry	0.0604		99.7	70-130			
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
Acetone	ND	50	µg/L							
tert-Amyl Methyl Ether (TAME)	ND	0.50	µg/L							
Benzene	ND	1.0	µg/L							
Bromobenzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							R-05, V-19
2-Butanone (MEK)	ND	20	µg/L							
tert-Butyl Alcohol (TBA)	ND	20	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
tert-Butyl Ethyl Ether (TBEE)	ND	0.50	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
2-Chlorotoluene	ND	1.0	µg/L							
4-Chlorotoluene	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	1.0	µg/L							
1,1-Dichloropropene	ND	2.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Diisopropyl Ether (DIPE)	ND	0.50	µg/L							
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							L-04, V-05
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	2.0	µg/L							
1,2,4-Trimethylbenzene	ND	1.0	µg/L							
1,3,5-Trimethylbenzene	ND	1.0	µg/L							
Vinyl Acetate	ND	20	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130			
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.9	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076741 - SW-846 5030B												
LCS (B076741-BS1)				Prepared: 07/15/13 Analyzed: 07/18/13								
Acetone	85.3	50	µg/L	100		85.3		70-160		25		†
tert-Amyl Methyl Ether (TAME)	10.2	0.50	µg/L	10.0		102		70-130		25		
Benzene	9.42	1.0	µg/L	10.0		94.2		70-130		25		
Bromobenzene	10.2	1.0	µg/L	10.0		102		70-130		25		
Bromochloromethane	10.5	1.0	µg/L	10.0		105		70-130		25		
Bromodichloromethane	10.4	0.50	µg/L	10.0		104		70-130		25		
Bromoform	9.53	1.0	µg/L	10.0		95.3		70-130		25		
Bromomethane	12.1	2.0	µg/L	10.0		121		40-160		25	R-05, V-19, V-20	†
2-Butanone (MEK)	83.3	20	µg/L	100		83.3		40-160		25		†
tert-Butyl Alcohol (TBA)	74.6	20	µg/L	100		74.6		40-160		25		†
n-Butylbenzene	10.9	1.0	µg/L	10.0		109		70-130		25		
sec-Butylbenzene	10.5	1.0	µg/L	10.0		105		70-130		25		
tert-Butylbenzene	10.3	1.0	µg/L	10.0		103		70-130		25		
tert-Butyl Ethyl Ether (TBEE)	10.4	0.50	µg/L	10.0		104		70-130		25		
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110		70-130		25		
Chlorobenzene	10.4	1.0	µg/L	10.0		104		70-130		25		
Chlorodibromomethane	9.71	0.50	µg/L	10.0		97.1		70-130		25		
Chloroethane	9.97	2.0	µg/L	10.0		99.7		70-130		25		
Chloroform	10.6	2.0	µg/L	10.0		106		70-130		25		
Chloromethane	4.79	2.0	µg/L	10.0		47.9		40-160		25		†
2-Chlorotoluene	10.5	1.0	µg/L	10.0		105		70-130		25		
4-Chlorotoluene	11.0	1.0	µg/L	10.0		110		70-130		25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108		70-130		25		
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130		25		
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101		70-130		25		
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103		70-130		25		
Dichlorodifluoromethane (Freon 12)	5.67	2.0	µg/L	10.0		56.7		40-160		25		†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103		70-130		25		
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113		70-130		25		
1,1-Dichloroethylene	9.64	1.0	µg/L	10.0		96.4		70-130		25		
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104		70-130		25		
trans-1,2-Dichloroethylene	12.6	1.0	µg/L	10.0		126		70-130		25		
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103		70-130		25		
1,3-Dichloropropane	10.3	0.50	µg/L	10.0		103		70-130		25		
2,2-Dichloropropane	12.0	1.0	µg/L	10.0		120		40-130		25	V-20	†
1,1-Dichloropropene	10.4	2.0	µg/L	10.0		104		70-130		25		
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4		70-130		25		
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101		70-130		25		
Diisopropyl Ether (DIPE)	10.0	0.50	µg/L	10.0		100		70-130		25		
Ethylbenzene	10.5	1.0	µg/L	10.0		105		70-130		25		
2-Hexanone (MBK)	86.1	10	µg/L	100		86.1		70-160		25		†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108		70-130		25		
p-Isopropyltoluene (p-Cymene)	10.7	1.0	µg/L	10.0		107		70-130		25		
Methyl tert-Butyl Ether (MTBE)	13.0	1.0	µg/L	10.0		130		70-130		25		
Methylene Chloride	4.44	5.0	µg/L	10.0		**44.4**	*	70-130		25	J, L-04, V-05	
4-Methyl-2-pentanone (MIBK)	89.0	10	µg/L	100		89.0		70-160		25		†
Naphthalene	9.08	2.0	µg/L	10.0		90.8		40-130		25		†
n-Propylbenzene	11.0	1.0	µg/L	10.0		110		70-130		25		
Styrene	10.6	1.0	µg/L	10.0		106		70-130		25		
1,1,1,2-Tetrachloroethane	10.7	1.0	µg/L	10.0		107		70-130		25		
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104		70-130		25		
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107		70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076741 - SW-846 5030B													
LCS (B076741-BS1)				Prepared: 07/15/13 Analyzed: 07/18/13									
Tetrahydrofuran	8.57	10	µg/L	10.0		85.7		70-130			25	J	
Toluene	9.84	1.0	µg/L	10.0		98.4		70-130			25		
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.0		117		70-130			25		
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100		70-130			25		
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107		70-130			25		
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104		70-130			25		
Trichloroethylene	10.1	1.0	µg/L	10.0		101		70-130			25		
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110		70-130			25		
1,2,3-Trichloropropane	10.6	2.0	µg/L	10.0		106		70-130			25		
1,2,4-Trimethylbenzene	10.5	1.0	µg/L	10.0		105		70-130			25		
1,3,5-Trimethylbenzene	10.9	1.0	µg/L	10.0		109		70-130			25		
Vinyl Acetate	88.8	20	µg/L	100		88.8		70-130			25		
Vinyl Chloride	6.19	2.0	µg/L	10.0		61.9		40-160			25		†
m+p Xylene	21.6	2.0	µg/L	20.0		108		70-130			25		
o-Xylene	10.6	1.0	µg/L	10.0		106		70-130			25		
Surrogate: 1,2-Dichloroethane-d4	*26.1*		µg/L	25.0		104		70-130					
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.3		70-130					
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102		70-130					
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13									
Acetone	78.7	50	µg/L	100		78.7		70-160	8.05		25		†
tert-Amyl Methyl Ether (TAME)	9.88	0.50	µg/L	10.0		98.8		70-130	2.89		25		
Benzene	9.06	1.0	µg/L	10.0		90.6		70-130	3.90		25		
Bromobenzene	10.0	1.0	µg/L	10.0		100		70-130	2.47		25		
Bromochloromethane	10.6	1.0	µg/L	10.0		106		70-130	0.663		25		
Bromodichloromethane	10.1	0.50	µg/L	10.0		101		70-130	2.64		25		
Bromoform	9.29	1.0	µg/L	10.0		92.9		70-130	2.55		25		
Bromomethane	16.1	2.0	µg/L	10.0		**161**	*	40-160	**28.0**	*	25	R-05, V-19, V-20, L-07A	†
2-Butanone (MEK)	79.0	20	µg/L	100		79.0		40-160	5.28		25		†
tert-Butyl Alcohol (TBA)	69.0	20	µg/L	100		69.0		40-160	7.76		25		†
n-Butylbenzene	10.3	1.0	µg/L	10.0		103		70-130	6.32		25		
sec-Butylbenzene	10.1	1.0	µg/L	10.0		101		70-130	4.38		25		
tert-Butylbenzene	10.0	1.0	µg/L	10.0		100		70-130	2.75		25		
tert-Butyl Ethyl Ether (TBEE)	10.1	0.50	µg/L	10.0		101		70-130	3.61		25		
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104		70-130	5.15		25		
Chlorobenzene	9.96	1.0	µg/L	10.0		99.6		70-130	4.23		25		
Chlorodibromomethane	9.56	0.50	µg/L	10.0		95.6		70-130	1.56		25		
Chloroethane	9.82	2.0	µg/L	10.0		98.2		70-130	1.52		25		
Chloroform	10.3	2.0	µg/L	10.0		103		70-130	3.06		25		
Chloromethane	4.79	2.0	µg/L	10.0		47.9		40-160	0.00		25		†
2-Chlorotoluene	10.3	1.0	µg/L	10.0		103		70-130	2.11		25		
4-Chlorotoluene	10.6	1.0	µg/L	10.0		106		70-130	3.71		25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105		70-130	2.35		25		
1,2-Dichlorobenzene	9.73	1.0	µg/L	10.0		97.3		70-130	3.43		25		
1,3-Dichlorobenzene	9.75	1.0	µg/L	10.0		97.5		70-130	3.82		25		
1,4-Dichlorobenzene	9.84	1.0	µg/L	10.0		98.4		70-130	4.86		25		
Dichlorodifluoromethane (Freon 12)	5.51	2.0	µg/L	10.0		55.1		40-160	2.86		25		†
1,1-Dichloroethane	9.92	1.0	µg/L	10.0		99.2		70-130	3.86		25		
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130	3.14		25		
1,1-Dichloroethylene	9.12	1.0	µg/L	10.0		91.2		70-130	5.54		25		
cis-1,2-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3		70-130	5.15		25		
trans-1,2-Dichloroethylene	12.3	1.0	µg/L	10.0		123		70-130	2.58		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076741 - SW-846 5030B												
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13								
1,2-Dichloropropane	9.99	1.0	µg/L	10.0		99.9		70-130	2.76	25		
1,3-Dichloropropane	10.4	0.50	µg/L	10.0		104		70-130	0.773	25		
2,2-Dichloropropane	11.1	1.0	µg/L	10.0		111		40-130	7.79	25	V-20	†
1,1-Dichloropropene	9.92	2.0	µg/L	10.0		99.2		70-130	4.82	25		
cis-1,3-Dichloropropene	9.29	0.50	µg/L	10.0		92.9		70-130	4.73	25		
trans-1,3-Dichloropropene	9.81	0.50	µg/L	10.0		98.1		70-130	2.62	25		
Diisopropyl Ether (DIPE)	9.75	0.50	µg/L	10.0		97.5		70-130	2.73	25		
Ethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	3.58	25		
2-Hexanone (MBK)	84.0	10	µg/L	100		84.0		70-160	2.56	25		†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105		70-130	2.82	25		
p-Isopropyltoluene (p-Cymene)	10.2	1.0	µg/L	10.0		102		70-130	4.79	25		
Methyl tert-Butyl Ether (MTBE)	12.8	1.0	µg/L	10.0		128		70-130	1.79	25		
Methylene Chloride	4.20	5.0	µg/L	10.0		**42.0**	*	70-130	5.56	25	J, L-04, V-05	
4-Methyl-2-pentanone (MIBK)	86.2	10	µg/L	100		86.2		70-160	3.21	25		†
Naphthalene	8.48	2.0	µg/L	10.0		84.8		40-130	6.83	25		†
n-Propylbenzene	10.6	1.0	µg/L	10.0		106		70-130	4.18	25		
Styrene	10.3	1.0	µg/L	10.0		103		70-130	2.88	25		
1,1,1,2-Tetrachloroethane	10.4	1.0	µg/L	10.0		104		70-130	3.02	25		
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130	2.72	25		
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105		70-130	1.79	25		
Tetrahydrofuran	8.36	10	µg/L	10.0		83.6		70-130	2.48	25	J	
Toluene	9.51	1.0	µg/L	10.0		95.1		70-130	3.41	25		
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109		70-130	6.99	25		
1,2,4-Trichlorobenzene	9.34	1.0	µg/L	10.0		93.4		70-130	6.83	25		
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102		70-130	4.68	25		
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103		70-130	1.06	25		
Trichloroethylene	9.82	1.0	µg/L	10.0		98.2		70-130	2.91	25		
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104		70-130	5.22	25		
1,2,3-Trichloropropane	10.3	2.0	µg/L	10.0		103		70-130	2.86	25		
1,2,4-Trimethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	3.48	25		
1,3,5-Trimethylbenzene	10.4	1.0	µg/L	10.0		104		70-130	4.14	25		
Vinyl Acetate	85.0	20	µg/L	100		85.0		70-130	4.28	25		
Vinyl Chloride	5.78	2.0	µg/L	10.0		57.8		40-160	6.85	25		†
m+p Xylene	21.0	2.0	µg/L	20.0		105		70-130	2.54	25		
o-Xylene	10.3	1.0	µg/L	10.0		103		70-130	3.16	25		
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103		70-130				
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0		70-130				
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101		70-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076569 - SW-846 5035										
Blank (B076569-BLK1)				Prepared & Analyzed: 07/11/13						
No TICs Found	0.0		mg/Kg wet							
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
No TICs Found	0.0		µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							V-20
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							V-05, L-04
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							R-05
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							V-05
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							R-05
Di-n-octylphthalate	ND	0.67	mg/Kg wet							V-05
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							R-05
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							R-05, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076726 - SW-846 3546												
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachlorophenol	ND	0.34	mg/Kg wet								R-05	
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*5.33*		mg/Kg wet	6.67		80.0		30-130				
Surrogate: Phenol-d6	*5.58*		mg/Kg wet	6.67		83.6		30-130				
Surrogate: Nitrobenzene-d5	*3.00*		mg/Kg wet	3.33		89.9		30-130				
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.2		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.43*		mg/Kg wet	6.67		111		30-130				
Surrogate: p-Terphenyl-d14	*4.05*		mg/Kg wet	3.33		122		30-130				
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13								
Acenaphthene	1.66	0.17	mg/Kg wet	1.67		99.8		40-140		30		
Acenaphthylene	1.70	0.17	mg/Kg wet	1.67		102		40-140		30		
Anthracene	1.79	0.17	mg/Kg wet	1.67		107		40-140		30		
Benzo(a)anthracene	1.91	0.17	mg/Kg wet	1.67		115		40-140		30		
Benzo(a)pyrene	1.86	0.17	mg/Kg wet	1.67		112		40-140		30		
Benzo(b)fluoranthene	1.60	0.17	mg/Kg wet	1.67		95.8		40-140		30	V-05	
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.67		98.2		40-140		30	V-06	
Benzo(k)fluoranthene	1.68	0.17	mg/Kg wet	1.67		101		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	1.63	0.34	mg/Kg wet	1.67		97.5		40-140		30		
Bis(2-chloroethyl)ether	1.56	0.34	mg/Kg wet	1.67		93.6		40-140		30		
Bis(2-chloroisopropyl)ether	1.27	0.34	mg/Kg wet	1.67		76.4		40-140		30		
Bis(2-Ethylhexyl)phthalate	1.64	0.34	mg/Kg wet	1.67		98.2		40-140		30		
4-Bromophenylphenylether	1.98	0.34	mg/Kg wet	1.67		119		40-140		30		
Butylbenzylphthalate	1.91	0.34	mg/Kg wet	1.67		115		40-140		30		
4-Chloroaniline	0.842	0.66	mg/Kg wet	1.67		50.5		10-140		30		†
4-Chloro-3-methylphenol	1.66	0.66	mg/Kg wet	1.67		99.8		30-130		30		
2-Chloronaphthalene	1.68	0.34	mg/Kg wet	1.67		101		40-140		30	R-05	
2-Chlorophenol	1.47	0.34	mg/Kg wet	1.67		88.2		30-130		30		
4-Chlorophenylphenylether	1.52	0.34	mg/Kg wet	1.67		91.2		40-140		30		
Chrysene	1.83	0.17	mg/Kg wet	1.67		110		40-140		30		
Dibenz(a,h)anthracene	1.78	0.17	mg/Kg wet	1.67		107		40-140		30		
Dibenzofuran	1.61	0.34	mg/Kg wet	1.67		96.5		40-140		30		
Di-n-butylphthalate	1.94	0.34	mg/Kg wet	1.67		116		40-140		30	V-05	
1,2-Dichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.2		40-140		30		
1,3-Dichlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.7		40-140		30		
1,4-Dichlorobenzene	1.26	0.34	mg/Kg wet	1.67		75.9		40-140		30		
3,3-Dichlorobenzidine	1.54	0.17	mg/Kg wet	1.67		92.3		20-140		50		†
2,4-Dichlorophenol	1.72	0.34	mg/Kg wet	1.67		103		30-130		30		
Diethylphthalate	1.77	0.34	mg/Kg wet	1.67		106		40-140		30		
2,4-Dimethylphenol	1.75	0.34	mg/Kg wet	1.67		105		30-130		30		
Dimethylphthalate	1.78	0.34	mg/Kg wet	1.67		107		40-140		30		
4,6-Dinitro-2-methylphenol	2.02	0.34	mg/Kg wet	1.67		121		30-130		30		
2,4-Dinitrophenol	1.60	0.66	mg/Kg wet	1.67		96.3		30-130		30	R-05	
Di-n-octylphthalate	1.60	0.67	mg/Kg wet	1.67		96.2		40-140		30	V-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.88	0.34	mg/Kg wet	1.67		113		40-140		30	R-05	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076726 - SW-846 3546													
LCS (B076726-BS1)				Prepared: 07/15/13 Analyzed: 07/17/13									
Fluoranthene	2.08	0.17	mg/Kg wet	1.67		125		40-140			30		
Fluorene	1.50	0.17	mg/Kg wet	1.67		90.2		40-140			30		
Hexachlorobenzene	2.02	0.34	mg/Kg wet	1.67		121		40-140			30		
Hexachlorobutadiene	1.51	0.34	mg/Kg wet	1.67		90.5		40-140			30		
Hexachlorocyclopentadiene	0.767	0.34	mg/Kg wet	1.67		46.0		40-140			30	R-05, V-05	
Hexachloroethane	1.25	0.34	mg/Kg wet	1.67		74.9		40-140			30		
Indeno(1,2,3-cd)pyrene	1.74	0.17	mg/Kg wet	1.67		105		40-140			30		
Isophorone	1.64	0.34	mg/Kg wet	1.67		98.5		40-140			30		
1-Methylnaphthalene	1.49	0.17	mg/Kg wet	1.67		89.7		40-140			30		
2-Methylnaphthalene	1.41	0.17	mg/Kg wet	1.67		84.7		40-140			30		
2-Methylphenol	1.54	0.34	mg/Kg wet	1.67		92.2		30-130			30		
3/4-Methylphenol	1.39	0.34	mg/Kg wet	1.67		83.2		30-130			30		
Naphthalene	1.50	0.17	mg/Kg wet	1.67		89.8		40-140			30		
Nitrobenzene	1.50	0.34	mg/Kg wet	1.67		89.8		40-140			30		
2-Nitrophenol	1.81	0.34	mg/Kg wet	1.67		108		30-130			30		
4-Nitrophenol	1.19	0.66	mg/Kg wet	1.67		71.7		30-130			50	V-05	
N-Nitrosodiphenylamine	2.27	0.34	mg/Kg wet	1.67		136		40-140			30		
N-Nitrosodi-n-propylamine	1.22	0.34	mg/Kg wet	1.67		73.5		40-140			30		
Pentachlorophenol	1.53	0.34	mg/Kg wet	1.67		91.7		30-130			30	R-05	
Phenanthrene	1.89	0.17	mg/Kg wet	1.67		114		40-140			30		
Phenol	1.45	0.34	mg/Kg wet	1.67		86.9		30-130			30		
Pyrene	1.87	0.17	mg/Kg wet	1.67		112		40-140			30		
1,2,4-Trichlorobenzene	1.59	0.34	mg/Kg wet	1.67		95.2		40-140			30		
2,4,6-Trichlorophenol	1.82	0.34	mg/Kg wet	1.67		109		30-130			30		
Surrogate: 2-Fluorophenol	*5.71*		mg/Kg wet	6.67		85.7		30-130					
Surrogate: Phenol-d6	*5.50*		mg/Kg wet	6.67		82.4		30-130					
Surrogate: Nitrobenzene-d5	*3.10*		mg/Kg wet	3.33		92.9		30-130					
Surrogate: 2-Fluorobiphenyl	*3.04*		mg/Kg wet	3.33		91.3		30-130					
Surrogate: 2,4,6-Tribromophenol	*8.87*		mg/Kg wet	6.67		**133**	*	30-130				S-07	
Surrogate: p-Terphenyl-d14	*3.92*		mg/Kg wet	3.33		118		30-130					
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13									
Acenaphthene	1.35	0.17	mg/Kg wet	1.67		80.7		40-140	21.2		30		
Acenaphthylene	1.34	0.17	mg/Kg wet	1.67		80.6		40-140	23.4		30		
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.1		40-140	23.0		30		
Benzo(a)anthracene	1.51	0.17	mg/Kg wet	1.67		90.7		40-140	23.5		30		
Benzo(a)pyrene	1.47	0.17	mg/Kg wet	1.67		88.2		40-140	23.4		30		
Benzo(b)fluoranthene	1.28	0.17	mg/Kg wet	1.67		77.1		40-140	21.7		30	V-05	
Benzo(g,h,i)perylene	1.59	0.17	mg/Kg wet	1.67		95.4		40-140	2.87		30	V-06	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.8		40-140	24.6		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130			50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.29	0.34	mg/Kg wet	1.67		77.4		40-140	23.0		30		
Bis(2-chloroethyl)ether	1.17	0.34	mg/Kg wet	1.67		70.3		40-140	28.4		30		
Bis(2-chloroisopropyl)ether	0.995	0.34	mg/Kg wet	1.67		59.7		40-140	24.5		30		
Bis(2-Ethylhexyl)phthalate	1.33	0.34	mg/Kg wet	1.67		80.0		40-140	20.4		30		
4-Bromophenylphenylether	1.56	0.34	mg/Kg wet	1.67		93.7		40-140	23.7		30		
Butylbenzylphthalate	1.53	0.34	mg/Kg wet	1.67		91.7		40-140	22.4		30		
4-Chloroaniline	0.663	0.66	mg/Kg wet	1.67		39.8		10-140	23.8		30		†
4-Chloro-3-methylphenol	1.35	0.66	mg/Kg wet	1.67		80.9		30-130	20.8		30		
2-Chloronaphthalene	1.24	0.34	mg/Kg wet	1.67		74.3		40-140	**30.2**	*	30	R-05	
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.2		30-130	25.5		30		
4-Chlorophenylphenylether	1.25	0.34	mg/Kg wet	1.67		74.9		40-140	19.7		30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076726 - SW-846 3546													
LCS Dup (B076726-BSD1)				Prepared: 07/15/13 Analyzed: 07/17/13									
Chrysene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	21.3		30		
Dibenz(a,h)anthracene	1.59	0.17	mg/Kg wet	1.67		95.5		40-140	11.2		30		
Dibenzofuran	1.30	0.34	mg/Kg wet	1.67		78.2		40-140	20.9		30		
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		93.1		40-140	22.1		30	V-05	
1,2-Dichlorobenzene	0.994	0.34	mg/Kg wet	1.67		59.6		40-140	25.6		30		
1,3-Dichlorobenzene	0.970	0.34	mg/Kg wet	1.67		58.2		40-140	27.4		30		
1,4-Dichlorobenzene	0.966	0.34	mg/Kg wet	1.67		57.9		40-140	26.8		30		
3,3-Dichlorobenzidine	1.20	0.17	mg/Kg wet	1.67		72.2		20-140	24.5		50		† ‡
2,4-Dichlorophenol	1.36	0.34	mg/Kg wet	1.67		81.6		30-130	23.3		30		
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		83.7		40-140	23.5		30		
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.5		30-130	25.4		30		
Dimethylphthalate	1.42	0.34	mg/Kg wet	1.67		85.1		40-140	22.5		30		
4,6-Dinitro-2-methylphenol	1.58	0.34	mg/Kg wet	1.67		95.0		30-130	24.0		30		
2,4-Dinitrophenol	1.04	0.66	mg/Kg wet	1.67		62.5		30-130	**42.6**	*	30	R-05	
Di-n-octylphthalate	1.25	0.67	mg/Kg wet	1.67		75.1		40-140	24.7		30	V-05	
1,2-Diphenylhydrazine (as Azobenzene)	1.32	0.34	mg/Kg wet	1.67		79.3		40-140	**35.1**	*	30	R-05	
Fluoranthene	1.65	0.17	mg/Kg wet	1.67		99.1		40-140	22.9		30		
Fluorene	1.25	0.17	mg/Kg wet	1.67		75.1		40-140	18.2		30		
Hexachlorobenzene	1.60	0.34	mg/Kg wet	1.67		96.2		40-140	23.0		30		
Hexachlorobutadiene	1.18	0.34	mg/Kg wet	1.67		70.5		40-140	24.9		30		
Hexachlorocyclopentadiene	0.566	0.34	mg/Kg wet	1.67		**33.9**	*	40-140	**30.2**	*	30	L-07A, V-05	
Hexachloroethane	0.957	0.34	mg/Kg wet	1.67		57.4		40-140	26.3		30		
Indeno(1,2,3-cd)pyrene	1.59	0.17	mg/Kg wet	1.67		95.2		40-140	9.49		30		
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.0		40-140	24.5		30		
1-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8		40-140	22.1		30		
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140	22.0		30		
2-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8		30-130	24.9		30		
3/4-Methylphenol	1.08	0.34	mg/Kg wet	1.67		64.7		30-130	24.9		30		
Naphthalene	1.17	0.17	mg/Kg wet	1.67		70.5		40-140	24.1		30		
Nitrobenzene	1.17	0.34	mg/Kg wet	1.67		70.5		40-140	24.1		30		
2-Nitrophenol	1.42	0.34	mg/Kg wet	1.67		85.3		30-130	23.9		30		
4-Nitrophenol	0.994	0.66	mg/Kg wet	1.67		59.7		30-130	18.3		50	V-05	‡
N-Nitrosodiphenylamine	1.86	0.34	mg/Kg wet	1.67		112		40-140	19.7		30		
N-Nitrosodi-n-propylamine	0.972	0.34	mg/Kg wet	1.67		58.3		40-140	23.1		30		
Pentachlorophenol	0.969	0.34	mg/Kg wet	1.67		58.1		30-130	**44.8**	*	30	R-05	
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.7		40-140	20.2		30		
Phenol	1.14	0.34	mg/Kg wet	1.67		68.6		30-130	23.4		30		
Pyrene	1.48	0.17	mg/Kg wet	1.67		88.7		40-140	23.5		30		
1,2,4-Trichlorobenzene	1.23	0.34	mg/Kg wet	1.67		73.7		40-140	25.5		30		
2,4,6-Trichlorophenol	1.43	0.34	mg/Kg wet	1.67		85.7		30-130	24.3		30		
Surrogate: 2-Fluorophenol	*4.40*		mg/Kg wet	6.67		66.0		30-130					
Surrogate: Phenol-d6	*4.36*		mg/Kg wet	6.67		65.4		30-130					
Surrogate: Nitrobenzene-d5	*2.40*		mg/Kg wet	3.33		72.1		30-130					
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.2		30-130					
Surrogate: 2,4,6-Tribromophenol	*6.73*		mg/Kg wet	6.67		101		30-130					
Surrogate: p-Terphenyl-d14	*3.05*		mg/Kg wet	3.33		91.6		30-130					

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076726 - SW-846 3546										
Blank (B076726-BLK1)				Prepared: 07/15/13 Analyzed: 07/17/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076523 - SW-846 3546											
Blank (B076523-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13							
C9-C18 Aliphatics	ND	10	mg/Kg wet								L-04
C19-C36 Aliphatics	ND	10	mg/Kg wet								
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								
Phenanthrene	ND	0.10	mg/Kg wet								
Pyrene	ND	0.10	mg/Kg wet								
Surrogate: Chlorooctadecane (COD)	*3.48*		mg/Kg wet	4.99		69.7		40-140			
Surrogate: o-Terphenyl (OTP)	*4.11*		mg/Kg wet	5.00		82.2		40-140			
Surrogate: 2-Bromonaphthalene	*4.75*		mg/Kg wet	5.00		95.0		40-140			
Surrogate: 2-Fluorobiphenyl	*5.14*		mg/Kg wet	5.00		103		40-140			
LCS (B076523-BS1)				Prepared: 07/11/13 Analyzed: 07/17/13							
Acenaphthene	3.23	0.10	mg/Kg wet	5.00		64.6		40-140			
Acenaphthylene	2.99	0.10	mg/Kg wet	5.00		59.7		40-140			
Anthracene	3.58	0.10	mg/Kg wet	5.00		71.5		40-140			
Benzo(a)anthracene	3.70	0.10	mg/Kg wet	5.00		74.0		40-140			
Benzo(a)pyrene	3.54	0.10	mg/Kg wet	5.00		70.7		40-140			
Benzo(b)fluoranthene	3.68	0.10	mg/Kg wet	5.00		73.5		40-140			
Benzo(g,h,i)perylene	3.72	0.10	mg/Kg wet	5.00		74.4		40-140			
Benzo(k)fluoranthene	3.64	0.10	mg/Kg wet	5.00		72.9		40-140			
Chrysene	3.49	0.10	mg/Kg wet	5.00		69.7		40-140			
Dibenz(a,h)anthracene	3.75	0.10	mg/Kg wet	5.00		75.1		40-140			
Fluoranthene	3.62	0.10	mg/Kg wet	5.00		72.4		40-140			
Fluorene	3.33	0.10	mg/Kg wet	5.00		66.5		40-140			
Indeno(1,2,3-cd)pyrene	3.80	0.10	mg/Kg wet	5.00		76.1		40-140			
2-Methylnaphthalene	2.73	0.10	mg/Kg wet	5.00		54.7		40-140			
Naphthalene	2.37	0.10	mg/Kg wet	5.00		47.4		40-140			
Phenanthrene	3.54	0.10	mg/Kg wet	5.00		70.9		40-140			
Pyrene	3.53	0.10	mg/Kg wet	5.00		70.6		40-140			
n-Decane	1.87	0.10	mg/Kg wet	5.00		**37.5**	*	40-140			L-04
n-Docosane	4.04	0.10	mg/Kg wet	5.00		80.9		40-140			
n-Dodecane	2.71	0.10	mg/Kg wet	5.00		54.2		40-140			
n-Eicosane	4.04	0.10	mg/Kg wet	5.00		80.8		40-140			
n-Hexacosane	4.11	0.10	mg/Kg wet	5.00		82.2		40-140			
n-Hexadecane	3.97	0.10	mg/Kg wet	5.00		79.4		40-140			
n-Hexatriacontane	5.60	0.10	mg/Kg wet	5.00		112		40-140			
n-Nonadecane	4.03	0.10	mg/Kg wet	5.00		80.5		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076523 - SW-846 3546											
LCS (B076523-BS1)				Prepared: 07/11/13 Analyzed: 07/17/13							
n-Nonane	1.17	0.10	mg/Kg wet	5.00		**23.4**	*	30-140			L-04
n-Octacosane	3.98	0.10	mg/Kg wet	5.00		79.7		40-140			
n-Octadecane	4.06	0.10	mg/Kg wet	5.00		81.3		40-140			
n-Tetracosane	4.17	0.10	mg/Kg wet	5.00		83.4		40-140			
n-Tetradecane	3.45	0.10	mg/Kg wet	5.00		69.0		40-140			
n-Triacontane	4.03	0.10	mg/Kg wet	5.00		80.7		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.82*		mg/Kg wet	4.99		76.5		40-140			
Surrogate: o-Terphenyl (OTP)	*3.41*		mg/Kg wet	5.00		68.3		40-140			
Surrogate: 2-Bromonaphthalene	*3.52*		mg/Kg wet	5.00		70.3		40-140			
Surrogate: 2-Fluorobiphenyl	*3.84*		mg/Kg wet	5.00		76.9		40-140			
LCS Dup (B076523-BSD1)				Prepared: 07/11/13 Analyzed: 07/17/13							
Acenaphthene	3.85	0.10	mg/Kg wet	5.00		76.9		40-140	17.5	25	
Acenaphthylene	3.55	0.10	mg/Kg wet	5.00		71.0		40-140	17.2	25	
Anthracene	4.25	0.10	mg/Kg wet	5.00		85.0		40-140	17.2	25	
Benzo(a)anthracene	4.31	0.10	mg/Kg wet	5.00		86.2		40-140	15.2	25	
Benzo(a)pyrene	4.09	0.10	mg/Kg wet	5.00		81.8		40-140	14.5	25	
Benzo(b)fluoranthene	4.24	0.10	mg/Kg wet	5.00		84.9		40-140	14.3	25	
Benzo(g,h,i)perylene	4.24	0.10	mg/Kg wet	5.00		84.7		40-140	13.0	25	
Benzo(k)fluoranthene	4.22	0.10	mg/Kg wet	5.00		84.3		40-140	14.5	25	
Chrysene	4.08	0.10	mg/Kg wet	5.00		81.6		40-140	15.6	25	
Dibenz(a,h)anthracene	4.35	0.10	mg/Kg wet	5.00		87.1		40-140	14.8	25	
Fluoranthene	4.22	0.10	mg/Kg wet	5.00		84.4		40-140	15.4	25	
Fluorene	3.97	0.10	mg/Kg wet	5.00		79.3		40-140	17.5	25	
Indeno(1,2,3-cd)pyrene	4.38	0.10	mg/Kg wet	5.00		87.7		40-140	14.1	25	
2-Methylnaphthalene	3.34	0.10	mg/Kg wet	5.00		66.7		40-140	19.8	25	
Naphthalene	2.82	0.10	mg/Kg wet	5.00		56.5		40-140	17.4	25	
Phenanthrene	4.18	0.10	mg/Kg wet	5.00		83.6		40-140	16.5	25	
Pyrene	4.11	0.10	mg/Kg wet	5.00		82.3		40-140	15.3	25	
n-Decane	1.78	0.10	mg/Kg wet	5.00		**35.6**	*	40-140	4.94	25	L-04
n-Docosane	3.62	0.10	mg/Kg wet	5.00		72.3		40-140	11.2	25	
n-Dodecane	2.55	0.10	mg/Kg wet	5.00		50.9		40-140	6.24	25	
n-Eicosane	3.58	0.10	mg/Kg wet	5.00		71.5		40-140	12.2	25	
n-Hexacosane	3.80	0.10	mg/Kg wet	5.00		76.0		40-140	7.89	25	
n-Hexadecane	3.53	0.10	mg/Kg wet	5.00		70.6		40-140	11.6	25	
n-Hexatriacontane	4.97	0.10	mg/Kg wet	5.00		99.4		40-140	11.9	25	
n-Nonadecane	3.56	0.10	mg/Kg wet	5.00		71.3		40-140	12.2	25	
n-Nonane	1.10	0.10	mg/Kg wet	5.00		**22.1**	*	30-140	5.83	25	L-04
n-Octacosane	3.66	0.10	mg/Kg wet	5.00		73.2		40-140	8.52	25	
n-Octadecane	3.60	0.10	mg/Kg wet	5.00		72.0		40-140	12.2	25	
n-Tetracosane	3.83	0.10	mg/Kg wet	5.00		76.6		40-140	8.49	25	
n-Tetradecane	3.15	0.10	mg/Kg wet	5.00		62.9		40-140	9.15	25	
n-Triacontane	3.68	0.10	mg/Kg wet	5.00		73.6		40-140	9.24	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.29*		mg/Kg wet	4.99		65.9		40-140			
Surrogate: o-Terphenyl (OTP)	*3.87*		mg/Kg wet	5.00		77.4		40-140			
Surrogate: 2-Bromonaphthalene	*4.07*		mg/Kg wet	5.00		81.3		40-140			
Surrogate: 2-Fluorobiphenyl	*4.54*		mg/Kg wet	5.00		90.8		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
Blank (B076730-BLK1)				Prepared & Analyzed: 07/15/13							
C9-C18 Aliphatics	ND	10	mg/Kg wet								L-04
C19-C36 Aliphatics	ND	10	mg/Kg wet								L-04
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								
Phenanthrene	ND	0.10	mg/Kg wet								
Pyrene	ND	0.10	mg/Kg wet								
Surrogate: Chlorooctadecane (COD)	*2.81*		mg/Kg wet	4.99		56.3		40-140			
Surrogate: o-Terphenyl (OTP)	*2.94*		mg/Kg wet	5.00		58.8		40-140			
Surrogate: 2-Bromonaphthalene	*5.07*		mg/Kg wet	5.00		101		40-140			
Surrogate: 2-Fluorobiphenyl	*5.34*		mg/Kg wet	5.00		107		40-140			
LCS (B076730-BS1)				Prepared & Analyzed: 07/15/13							
Acenaphthene	2.83	0.10	mg/Kg wet	5.00		56.6		40-140			
Acenaphthylene	2.81	0.10	mg/Kg wet	5.00		56.2		40-140			
Anthracene	4.16	0.10	mg/Kg wet	5.00		83.1		40-140			
Benzo(a)anthracene	4.31	0.10	mg/Kg wet	5.00		86.2		40-140			
Benzo(a)pyrene	3.98	0.10	mg/Kg wet	5.00		79.6		40-140			
Benzo(b)fluoranthene	4.20	0.10	mg/Kg wet	5.00		83.9		40-140			
Benzo(g,h,i)perylene	3.90	0.10	mg/Kg wet	5.00		78.0		40-140			
Benzo(k)fluoranthene	4.02	0.10	mg/Kg wet	5.00		80.4		40-140			
Chrysene	3.97	0.10	mg/Kg wet	5.00		79.4		40-140			
Dibenz(a,h)anthracene	4.09	0.10	mg/Kg wet	5.00		81.9		40-140			
Fluoranthene	4.23	0.10	mg/Kg wet	5.00		84.5		40-140			
Fluorene	3.35	0.10	mg/Kg wet	5.00		67.0		40-140			
Indeno(1,2,3-cd)pyrene	4.29	0.10	mg/Kg wet	5.00		85.7		40-140			
2-Methylnaphthalene	2.80	0.10	mg/Kg wet	5.00		56.0		40-140			
Naphthalene	2.53	0.10	mg/Kg wet	5.00		50.6		40-140			
Phenanthrene	4.01	0.10	mg/Kg wet	5.00		80.2		40-140			
Pyrene	4.17	0.10	mg/Kg wet	5.00		83.4		40-140			
n-Decane	1.60	0.10	mg/Kg wet	5.00		**31.9**	*	40-140			L-04
n-Docosane	4.12	0.10	mg/Kg wet	5.00		82.4		40-140			
n-Dodecane	2.18	0.10	mg/Kg wet	5.00		43.5		40-140			
n-Eicosane	4.00	0.10	mg/Kg wet	5.00		79.9		40-140			
n-Hexacosane	4.11	0.10	mg/Kg wet	5.00		82.2		40-140			
n-Hexadecane	3.24	0.10	mg/Kg wet	5.00		64.7		40-140			
n-Hexatriacontane	1.69	0.10	mg/Kg wet	5.00		**33.8**	*	40-140			L-04
n-Nonadecane	3.97	0.10	mg/Kg wet	5.00		79.3		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
LCS (B076730-BS1)				Prepared & Analyzed: 07/15/13							
n-Nonane	1.05	0.10	mg/Kg wet	5.00		**21.0**	*	30-140			L-04
n-Octacosane	3.96	0.10	mg/Kg wet	5.00		79.2		40-140			
n-Octadecane	3.82	0.10	mg/Kg wet	5.00		76.4		40-140			
n-Tetracosane	4.13	0.10	mg/Kg wet	5.00		82.7		40-140			
n-Tetradecane	2.56	0.10	mg/Kg wet	5.00		51.1		40-140			
n-Triacontane	3.96	0.10	mg/Kg wet	5.00		79.3		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.74*		mg/Kg wet	4.99		74.9		40-140			
Surrogate: o-Terphenyl (OTP)	*3.40*		mg/Kg wet	5.00		68.0		40-140			
Surrogate: 2-Bromonaphthalene	*4.39*		mg/Kg wet	5.00		87.8		40-140			
Surrogate: 2-Fluorobiphenyl	*4.64*		mg/Kg wet	5.00		92.8		40-140			
LCS Dup (B076730-BSD1)				Prepared & Analyzed: 07/15/13							
Acenaphthene	2.96	0.10	mg/Kg wet	5.00		59.3		40-140	4.68	25	
Acenaphthylene	2.95	0.10	mg/Kg wet	5.00		59.1		40-140	4.99	25	
Anthracene	3.71	0.10	mg/Kg wet	5.00		74.3		40-140	11.2	25	
Benzo(a)anthracene	3.71	0.10	mg/Kg wet	5.00		74.2		40-140	15.1	25	
Benzo(a)pyrene	3.42	0.10	mg/Kg wet	5.00		68.4		40-140	15.2	25	
Benzo(b)fluoranthene	3.58	0.10	mg/Kg wet	5.00		71.6		40-140	15.9	25	
Benzo(g,h,i)perylene	3.34	0.10	mg/Kg wet	5.00		66.8		40-140	15.4	25	
Benzo(k)fluoranthene	3.48	0.10	mg/Kg wet	5.00		69.5		40-140	14.5	25	
Chrysene	3.44	0.10	mg/Kg wet	5.00		68.8		40-140	14.3	25	
Dibenz(a,h)anthracene	3.53	0.10	mg/Kg wet	5.00		70.6		40-140	14.8	25	
Fluoranthene	3.66	0.10	mg/Kg wet	5.00		73.3		40-140	14.2	25	
Fluorene	3.37	0.10	mg/Kg wet	5.00		67.4		40-140	0.619	25	
Indeno(1,2,3-cd)pyrene	3.65	0.10	mg/Kg wet	5.00		73.1		40-140	16.0	25	
2-Methylnaphthalene	2.85	0.10	mg/Kg wet	5.00		56.9		40-140	1.61	25	
Naphthalene	2.55	0.10	mg/Kg wet	5.00		51.0		40-140	0.897	25	
Phenanthrene	3.65	0.10	mg/Kg wet	5.00		73.0		40-140	9.39	25	
Pyrene	3.61	0.10	mg/Kg wet	5.00		72.1		40-140	14.6	25	
n-Decane	1.60	0.10	mg/Kg wet	5.00		**32.0**	*	40-140	0.257	25	L-04
n-Docosane	3.84	0.10	mg/Kg wet	5.00		76.7		40-140	7.13	25	
n-Dodecane	2.29	0.10	mg/Kg wet	5.00		45.8		40-140	5.12	25	
n-Eicosane	3.73	0.10	mg/Kg wet	5.00		74.7		40-140	6.76	25	
n-Hexacosane	3.82	0.10	mg/Kg wet	5.00		76.3		40-140	7.46	25	
n-Hexadecane	3.39	0.10	mg/Kg wet	5.00		67.8		40-140	4.61	25	
n-Hexatriacontane	1.58	0.10	mg/Kg wet	5.00		**31.5**	*	40-140	7.14	25	L-04
n-Nonadecane	3.72	0.10	mg/Kg wet	5.00		74.4		40-140	6.34	25	
n-Nonane	0.982	0.10	mg/Kg wet	5.00		**19.6**	*	30-140	6.74	25	L-04
n-Octacosane	3.66	0.10	mg/Kg wet	5.00		73.3		40-140	7.81	25	
n-Octadecane	3.65	0.10	mg/Kg wet	5.00		73.1		40-140	4.44	25	
n-Tetracosane	3.83	0.10	mg/Kg wet	5.00		76.7		40-140	7.56	25	
n-Tetradecane	2.85	0.10	mg/Kg wet	5.00		57.1		40-140	11.0	25	
n-Triacontane	3.67	0.10	mg/Kg wet	5.00		73.5		40-140	7.57	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.37*		mg/Kg wet	4.99		67.6		40-140			
Surrogate: o-Terphenyl (OTP)	*2.93*		mg/Kg wet	5.00		58.6		40-140			
Surrogate: 2-Bromonaphthalene	*4.45*		mg/Kg wet	5.00		89.0		40-140			
Surrogate: 2-Fluorobiphenyl	*4.71*		mg/Kg wet	5.00		94.2		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076454 - MA VPH										
Blank (B076454-BLK1)				Prepared & Analyzed: 07/11/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*3.07*		mg/Kg wet	3.33		92.1	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.99*		mg/Kg wet	3.33		89.8	70-130			
LCS (B076454-BS1)				Prepared & Analyzed: 07/11/13						
Benzene	4.94	0.050	mg/Kg wet	5.00		98.8	70-130			
Butylcyclohexane	4.02	0.050	mg/Kg wet	5.00		80.4	70-130			
Decane	4.25	0.050	mg/Kg wet	5.00		84.9	70-130			
Ethylbenzene	5.31	0.050	mg/Kg wet	5.00		106	70-130			
Methyl tert-Butyl Ether (MTBE)	5.05	0.050	mg/Kg wet	5.00		101	70-130			
2-Methylpentane	4.16	0.050	mg/Kg wet	5.00		83.2	70-130			
Naphthalene	5.48	0.25	mg/Kg wet	5.00		110	70-130			
Nonane	4.03	0.050	mg/Kg wet	5.00		80.7	30-130			
Pentane	3.86	0.050	mg/Kg wet	5.00		77.1	70-130			
Toluene	5.18	0.050	mg/Kg wet	5.00		104	70-130			
1,2,4-Trimethylbenzene	5.05	0.050	mg/Kg wet	5.00		101	70-130			
2,2,4-Trimethylpentane	4.21	0.050	mg/Kg wet	5.00		84.2	70-130			
m+p Xylene	10.8	0.10	mg/Kg wet	10.0		108	70-130			
o-Xylene	5.29	0.050	mg/Kg wet	5.00		106	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*2.86*		mg/Kg wet	3.33		85.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.76*		mg/Kg wet	3.33		82.9	70-130			
LCS Dup (B076454-BSD1)				Prepared & Analyzed: 07/11/13						
Benzene	4.81	0.050	mg/Kg wet	5.00		96.2	70-130	2.69	25	
Butylcyclohexane	4.15	0.050	mg/Kg wet	5.00		83.0	70-130	3.10	25	
Decane	4.48	0.050	mg/Kg wet	5.00		89.6	70-130	5.41	25	
Ethylbenzene	5.15	0.050	mg/Kg wet	5.00		103	70-130	3.10	25	
Methyl tert-Butyl Ether (MTBE)	5.06	0.050	mg/Kg wet	5.00		101	70-130	0.184	25	
2-Methylpentane	4.01	0.050	mg/Kg wet	5.00		80.3	70-130	3.58	25	
Naphthalene	5.51	0.25	mg/Kg wet	5.00		110	70-130	0.651	25	
Nonane	4.16	0.050	mg/Kg wet	5.00		83.3	30-130	3.16	25	
Pentane	3.75	0.050	mg/Kg wet	5.00		75.0	70-130	2.71	25	
Toluene	5.03	0.050	mg/Kg wet	5.00		101	70-130	2.85	25	
1,2,4-Trimethylbenzene	4.92	0.050	mg/Kg wet	5.00		98.4	70-130	2.62	25	
2,2,4-Trimethylpentane	4.06	0.050	mg/Kg wet	5.00		81.3	70-130	3.54	25	
m+p Xylene	10.5	0.10	mg/Kg wet	10.0		105	70-130	2.93	25	
o-Xylene	5.14	0.050	mg/Kg wet	5.00		103	70-130	2.91	25	
Surrogate: 2,5-Dibromotoluene (FID)	*3.17*		mg/Kg wet	3.33		95.2	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.94*		mg/Kg wet	3.33		88.2	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076775 - % Solids										
Duplicate (B076775-DUP2)		**Source: 13G0349-02**		Prepared: 07/15/13 Analyzed: 07/16/13						
% Solids	81.5		% Wt		82.8			1.58	20	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
MS-07	Matrix spike recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of sample matrix effects that lead to low bias for reported result or non-homogeneous sample aliquot cannot be eliminated.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

SMC	Steven M. Case
SCS	Scott C. Sadowski
RH	Robert H. Witherell
PEB	Paula E. Blakeborough
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
LBD	Lauren B. Damboragian
EW	Edwin William
ESH	Erin S. Herlihy
EEH	Eric E. Hess
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
CMF	Chris M. Foley
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8260B in Water	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NC
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NH,NY,NC,ME
n-Butylbenzene	NY,NC,ME
sec-Butylbenzene	NY,NC,ME
tert-Butylbenzene	NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	NY,NC,ME
4-Chlorotoluene	NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NH,NY,NC,ME
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	CT,NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	NY,NC,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,NC,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,NC,ME
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC,ME
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	CT,NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NH,NY,NC,ME
1,2,4-Trichlorobenzene	CT,NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	NY,NC,ME
1,3,5-Trimethylbenzene	NY,NC,ME
Vinyl Acetate	NH,NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0349

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Fuel Oil UST
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)					Comments
01	Trip Blank	-	-	Lab	S	3	2	1				x								
02	FUST-1	7/9/13	1625	BM	S	6	2	3			1	x	x	x	x					
03	FUST-2		1630		S	6	2	3			1	x	x	x	x					
04	FUST-3		1640		S	6	2	3			1	x	x	x	x					
05	FUST-4		1650		S	6	2	3			1	x	x	x	x					
06	FUST-5		1700		S	6	2	3			1	x	x	x	x					
07	UNK-UST-1	7/9/13	1710	BM	S	6	2	3			1	x	x	x	x					
08	UNK-UST-2		1715		S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/9/13 1830	1 Fed-X	2	7/10/13 9:31	2 Paula Blakeborough
3		3	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice: ☐

07-10-13 13:28 IN

FedEx.

802540399110

Ship (P/U) date :
Tues 7/09/2013 5:55 pm
RAL US

Delivered
Signed for by: P BLAKE

Actual delivery :
Wed 7/10/2013 9:31 am
MA US

Travel History

Date/Time	Activity	Location
- 7/10/2013 - Wednesday		
9:31 am	Delivered	MA
8:02 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:18 am	At local FedEx facility	WINDSOR LOCKS, CT
5:59 am	At destination sort facility	EAST GRANBY, CT
4:23 am	Departed FedEx location	INDIANAPOLIS, IN
- 7/09/2013 - Tuesday		
11:51 pm	Arrived at FedEx location	INDIANAPOLIS, IN
8:48 pm	Left FedEx origin facility	RALEIGH, NC
5:55 pm	Picked up Tendered at FedEx Office	RALEIGH, NC

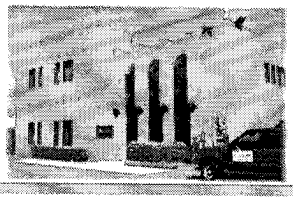
Local Scan Time

Shipment Facts

Tracking number	802540399110	**Service**	FedEx Priority Overnight
Weight	18 lbs	**Dimensions**	13x12x12 in.
Delivered To	Receptionist/Front Desk	**Total pieces**	1
Total shipment weight	18 lbs / 8.2 kgs	**Shipper reference**	80
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: ORS **RECEIVED BY:** PB **DATE:** 7.10.13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**
   On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
   Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
   Temperature °C by Temp blank 4.0 Temperature °C by Temp gun _____
5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	7
500 mL Amber		4 oz amber/clear jar	7
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	31	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials:			
	# HCl	# Methanol	14
	# Bisulfate	# DI Water	14
	# Thiosulfate	Unpreserved	3

Time and Date Frozen: 07-10-13 13:28 IN

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC Wash Water AST
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0397

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0397

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC Wash Water AST

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0397-01	Trip Blank Water		SW-846 8260B	
				SW-846 8260C	
WWA-2	13G0397-02	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
WWA-3	13G0397-03	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
WWA-4	13G0397-04	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
WWA-5	13G0397-05	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076730-BS1	B076730-BSD1
C9-C18	59%	59%
C19-C36	84%	80%
C11-C22	80%	72%

VPH	B076643-BS1	B076643-BSD1
C9-C10	96%	96%

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

C19-C36 Aliphatics, C9-C18 Aliphatics, n-Decane, n-Hexatriacontane, n-Nonane

13G0397-02[WWA-2], 13G0397-03[WWA-3], 13G0397-04[WWA-4], 13G0397-05[WWA-5], B076730-BLK1, B076730-BS1, B076730-BSD1

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Chloromethane

13G0397-01[Trip Blank], 13G0397-02[WWA-2], 13G0397-03[WWA-3], B076660-BLK1, B076660-BS1, B076660-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA), Vinyl Acetate

13G0397-01[Trip Blank], 13G0397-02[WWA-2], 13G0397-03[WWA-3], 13G0397-04[WWA-4], 13G0397-05[WWA-5], B076660-BLK1, B076660-BS1, B076660-BSD1, B076754-BLK1, B076754-BS1, B076754-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076660-BS1, B076660-BSD1, B076754-BS1, B076754-BSD1

SW-846 8270D

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Benzoic Acid, Hexachlorocyclopentadiene

B076882-BLK1, B076882-BS1, B076882-BSD1, 13G0397-02[WWA-2], 13G0397-03[WWA-3], 13G0397-04[WWA-4], 13G0397-05[WWA-5]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

3/4-Methylphenol, 4-Nitrophenol, Benzo(b)fluoranthene, Benzoic Acid, Bis(2-chloroisopropyl)ether, Di-n-octylphthalate, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine

13G0397-02[WWA-2], 13G0397-03[WWA-3], 13G0397-04[WWA-4], 13G0397-05[WWA-5], B076882-BLK1, B076882-BS1, B076882-BSD1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076882-BS1, B076882-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076882-BLK1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: Trip Blank | Sampled: 7/10/2013 00:00

Sample ID: 13G0397-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Bromoform	ND	0.0040	0.0014	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg wet	1	V-16	SW-846 8260B	7/12/13	7/15/13 15:27	MFF
n-Butylbenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
tert-Butylbenzene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00060	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1	L-04	SW-846 8260B	7/12/13	7/15/13 15:27	MFF
2-Chlorotoluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
4-Chlorotoluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,3-Dichloropropane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
2,2-Dichloropropane	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,1-Dichloropropene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Diisopropyl Ether (DIPE)	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: Trip Blank | Sampled: 7/10/2013 00:00

Sample ID: 13G0397-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Naphthalene	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
n-Propylbenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,2,3-Trichlorobenzene	ND	0.010	0.00060	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,2,4-Trichlorobenzene	ND	0.010	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Trichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Vinyl Acetate	ND	0.040	0.0067	mg/Kg wet	1	V-16	SW-846 8260B	7/12/13	7/15/13 15:27	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/12/13	7/15/13 15:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	110	70-130		7/15/13 15:27
Toluene-d8	99.0	70-130		7/15/13 15:27
4-Bromofluorobenzene	101	70-130		7/15/13 15:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: Trip Blank
Sampled: 7/10/2013 00:00

Sample ID: 13G0397-01

Sample Matrix: Trip Blank Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg wet			1		SW-846 8260C	7/12/13	7/15/13 15:27	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2 | Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.034	0.12	0.028	mg/Kg dry	1	J	SW-846 8260B	7/12/13	7/15/13 15:56	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Benzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Bromobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Bromodichloromethane	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Bromoform	ND	0.0048	0.0017	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
2-Butanone (MEK)	ND	0.048	0.021	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
tert-Butyl Alcohol (TBA)	ND	0.048	0.025	mg/Kg dry	1	V-16	SW-846 8260B	7/12/13	7/15/13 15:56	MFF
n-Butylbenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00072	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Carbon Tetrachloride	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Chlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Chlorodibromomethane	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Chloroform	ND	0.0048	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1	L-04	SW-846 8260B	7/12/13	7/15/13 15:56	MFF
2-Chlorotoluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
4-Chlorotoluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,1-Dichloroethane	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,1-Dichloroethylene	ND	0.0048	0.0013	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,3-Dichloropropane	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
2,2-Dichloropropane	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,1-Dichloropropene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Diisopropyl Ether (DIPE)	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Ethylbenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2 | Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.024	0.0085	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0091	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Naphthalene	ND	0.0048	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
n-Propylbenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Styrene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Toluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,2,3-Trichlorobenzene	ND	0.012	0.00072	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,2,4-Trichlorobenzene	ND	0.012	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,2,3-Trichloropropane	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Vinyl Acetate	ND	0.048	0.0080	mg/Kg dry	1	V-16	SW-846 8260B	7/12/13	7/15/13 15:56	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
m+p Xylene	ND	0.0048	0.0020	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF
o-Xylene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 15:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	115	70-130		7/15/13 15:56
Toluene-d8	98.7	70-130		7/15/13 15:56
4-Bromofluorobenzene	103	70-130		7/15/13 15:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2
Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/12/13	7/15/13 15:56	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2 | Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Acenaphthylene	ND	0.20	0.094	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Benzo(a)anthracene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Benzo(a)pyrene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Benzo(b)fluoranthene	ND	0.20	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Bis(2-chloroethoxy)methane	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Bis(2-chloroethyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.088	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
4-Bromophenylphenylether	ND	0.39	0.097	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Butylbenzylphthalate	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
4-Chloroaniline	ND	0.76	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
4-Chloro-3-methylphenol	ND	0.76	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2-Chloronaphthalene	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2-Chlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
4-Chlorophenylphenylether	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Dibenzofuran	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Di-n-butylphthalate	ND	0.39	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
1,2-Dichlorobenzene	ND	0.39	0.078	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
1,3-Dichlorobenzene	ND	0.39	0.092	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
1,4-Dichlorobenzene	ND	0.39	0.097	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2,4-Dichlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Diethylphthalate	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2,4-Dimethylphenol	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Dimethylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2,4-Dinitrophenol	ND	0.76	0.39	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Di-n-octylphthalate	ND	0.77	0.54	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Hexachlorobenzene	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Hexachlorobutadiene	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Hexachloroethane	ND	0.39	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Isophorone	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2 | Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.075	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2-Methylnaphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
3/4-Methylphenol	ND	0.39	0.22	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Naphthalene	ND	0.20	0.086	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Nitrobenzene	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2-Nitrophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
4-Nitrophenol	ND	0.76	0.69	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
N-Nitrosodiphenylamine	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
N-Nitrosodi-n-propylamine	ND	0.39	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Pentachlorophenol	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Phenanthrene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Phenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
1,2,4-Trichlorobenzene	ND	0.39	0.094	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR
2,4,6-Trichlorophenol	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 11:33	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	41.0	30-130		7/21/13 11:33
Phenol-d6	41.6	30-130		7/21/13 11:33
Nitrobenzene-d5	43.5	30-130		7/21/13 11:33
2-Fluorobiphenyl	45.6	30-130		7/21/13 11:33
2,4,6-Tribromophenol	58.0	30-130		7/21/13 11:33
p-Terphenyl-d14	58.3	30-130		7/21/13 11:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2
Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.15	mg/Kg dry	158040	14.542	1	000301-02-0	SW-846 8270D	7/17/13	7/21/13 11:33	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2 | Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 19:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	71.2	40-140		7/16/13 19:54
o-Terphenyl (OTP)	71.8	40-140		7/16/13 19:54
2-Bromonaphthalene	80.3	40-140		7/16/13 19:54
2-Fluorobiphenyl	86.3	40-140		7/16/13 19:54

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2
Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.84

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
Unadjusted C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
C9-C10 Aromatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
Benzene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
Ethylbenzene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
Naphthalene	ND	0.38	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
Toluene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
m+p Xylene	ND	0.15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH
o-Xylene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 1:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	99.1	70-130		7/13/13 1:44
2,5-Dibromotoluene (PID)	95.0	70-130		7/13/13 1:44

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-2
Sampled: 7/10/2013 14:30

Sample ID: 13G0397-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	7/16/13	7/17/13 9:35	MLA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3 | Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Benzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Bromobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Bromodichloromethane	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Bromoform	ND	0.0052	0.0018	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
2-Butanone (MEK)	ND	0.052	0.023	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
tert-Butyl Alcohol (TBA)	ND	0.052	0.027	mg/Kg dry	1	V-16	SW-846 8260B	7/12/13	7/15/13 16:25	MFF
n-Butylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
sec-Butylbenzene	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
tert-Butylbenzene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0013	0.00077	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Chlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Chlorodibromomethane	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Chloroethane	ND	0.026	0.0019	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Chloroform	ND	0.0052	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1	L-04	SW-846 8260B	7/12/13	7/15/13 16:25	MFF
2-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
4-Chlorotoluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,1-Dichloroethane	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,1-Dichloroethylene	ND	0.0052	0.0014	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,3-Dichloropropane	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
2,2-Dichloropropane	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,1-Dichloropropene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Diisopropyl Ether (DIPE)	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3 | Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.026	0.0092	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0098	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Naphthalene	ND	0.0052	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
n-Propylbenzene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Styrene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,1,1,2-Tetrachloroethane	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,2,3-Trichlorobenzene	ND	0.013	0.00077	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,2,4-Trichlorobenzene	ND	0.013	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0015	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Trichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,2,3-Trichloropropane	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,2,4-Trimethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
1,3,5-Trimethylbenzene	ND	0.0026	0.00077	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Vinyl Acetate	ND	0.052	0.0086	mg/Kg dry	1	V-16	SW-846 8260B	7/12/13	7/15/13 16:25	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
m+p Xylene	ND	0.0052	0.0022	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF
o-Xylene	ND	0.0026	0.00090	mg/Kg dry	1		SW-846 8260B	7/12/13	7/15/13 16:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	115	70-130		7/15/13 16:25
Toluene-d8	99.4	70-130		7/15/13 16:25
4-Bromofluorobenzene	102	70-130		7/15/13 16:25

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3
Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/12/13	7/15/13 16:25	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3 | Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
1,2-Dichlorobenzene	ND	0.41	0.082	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
1,3-Dichlorobenzene	ND	0.41	0.096	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
1,4-Dichlorobenzene	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.20	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3 | Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
4-Nitrophenol	ND	0.79	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
1,2,4-Trichlorobenzene	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	42.8	30-130		7/21/13 12:07
Phenol-d6	43.6	30-130		7/21/13 12:07
Nitrobenzene-d5	45.7	30-130		7/21/13 12:07
2-Fluorobiphenyl	46.6	30-130		7/21/13 12:07
2,4,6-Tribromophenol	58.3	30-130		7/21/13 12:07
p-Terphenyl-d14	60.1	30-130		7/21/13 12:07

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3
Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/17/13	7/21/13 12:07	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3 | Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:15	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.1	40-140		7/16/13 20:15
o-Terphenyl (OTP)	72.1	40-140		7/16/13 20:15
2-Bromonaphthalene	84.4	40-140		7/16/13 20:15
2-Fluorobiphenyl	91.4	40-140		7/16/13 20:15

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3 | Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.95

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
Unadjusted C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
C9-C10 Aromatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
Benzene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
Ethylbenzene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
Naphthalene	ND	0.37	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
Toluene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
m+p Xylene	ND	0.15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH
o-Xylene	ND	0.074	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:08	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	101	70-130		7/12/13 16:08
2,5-Dibromotoluene (PID)	98.6	70-130		7/12/13 16:08

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-3
Sampled: 7/10/2013 14:40

Sample ID: 13G0397-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.0		% Wt	1		SM 2540G	7/16/13	7/17/13 9:35	MLA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4 | Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.027	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Bromobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Bromoform	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 10:42	MFF
n-Butylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
sec-Butylbenzene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Carbon Tetrachloride	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
2-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
4-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,3-Dichloropropane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
2,2-Dichloropropane	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Diisopropyl Ether (DIPE)	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Ethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4 | Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Naphthalene	0.0058	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
n-Propylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Toluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,2,3-Trichlorobenzene	ND	0.012	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,2,4-Trichlorobenzene	ND	0.012	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Vinyl Acetate	ND	0.046	0.0077	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 10:42	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 10:42	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	112	70-130		7/16/13 10:42
Toluene-d8	99.2	70-130		7/16/13 10:42
4-Bromofluorobenzene	105	70-130		7/16/13 10:42

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4
Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyclohexane, 1,2,4-trimethy...	0.0084	mg/Kg dry	152313	7.214	1	007667-60-9	SW-846 8260C	7/15/13	7/16/13 10:42	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST Sample Description: Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4 Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.097	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Acenaphthylene	ND	0.19	0.093	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Benzo(a)anthracene	ND	0.19	0.087	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Benzo(a)pyrene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Benzo(b)fluoranthene	ND	0.19	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Benzo(g,h,i)perylene	ND	0.19	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Benzo(k)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Benzoic Acid	ND	1.1	1.1	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Bis(2-chloroethoxy)methane	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Bis(2-chloroethyl)ether	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Bis(2-Ethylhexyl)phthalate	0.17	0.39	0.086	mg/Kg dry	1	J	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
4-Bromophenylphenylether	ND	0.39	0.095	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Butylbenzylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
4-Chloroaniline	ND	0.75	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
4-Chloro-3-methylphenol	ND	0.75	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2-Chloronaphthalene	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2-Chlorophenol	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
4-Chlorophenylphenylether	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Chrysene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Dibenzofuran	ND	0.39	0.090	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Di-n-butylphthalate	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
1,2-Dichlorobenzene	ND	0.39	0.077	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
1,3-Dichlorobenzene	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
1,4-Dichlorobenzene	ND	0.39	0.095	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
3,3-Dichlorobenzidine	ND	0.19	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2,4-Dichlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Diethylphthalate	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2,4-Dimethylphenol	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Dimethylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2,4-Dinitrophenol	ND	0.75	0.38	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Di-n-octylphthalate	ND	0.76	0.53	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Fluorene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Hexachlorobenzene	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Hexachlorobutadiene	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Hexachlorocyclopentadiene	ND	0.39	0.25	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Hexachloroethane	ND	0.39	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Isophorone	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4 | Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.19	0.074	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2-Methylnaphthalene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
3/4-Methylphenol	ND	0.39	0.21	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Naphthalene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Nitrobenzene	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2-Nitrophenol	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
4-Nitrophenol	ND	0.75	0.68	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
N-Nitrosodiphenylamine	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
N-Nitrosodi-n-propylamine	ND	0.39	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Pentachlorophenol	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Phenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
1,2,4-Trichlorobenzene	ND	0.39	0.093	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR
2,4,6-Trichlorophenol	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 12:40	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	40.4	30-130		7/21/13 12:40
Phenol-d6	41.3	30-130		7/21/13 12:40
Nitrobenzene-d5	43.1	30-130		7/21/13 12:40
2-Fluorobiphenyl	44.0	30-130		7/21/13 12:40
2,4,6-Tribromophenol	64.6	30-130		7/21/13 12:40
p-Terphenyl-d14	57.2	30-130		7/21/13 12:40

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST Sample Description: Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4 Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.44	mg/Kg dry	518859	14.548	1	000301-02-0	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Docosane	0.17	mg/Kg dry	204379	13.854	1	000629-97-0	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
eicosane	0.34	mg/Kg dry	328380	13.454	1	000112-95-8	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Heptadecane	0.72	mg/Kg dry	686694	12.248	1	000629-78-7	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Hexadecane	0.61	mg/Kg dry	895148	10.607	1	000544-76-3	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Hexadecane, 2,6,10,14-tetra...	0.46	mg/Kg dry	441290	12.277	1	000638-36-8	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Naphthalene, 1,6,7-trimethyl-	0.24	mg/Kg dry	361101	11.06	1	002245-38-7	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Naphthalene, 2-methyl-1-pro...	0.16	mg/Kg dry	230472	11.436	1	054774-89-9	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
n-Hexadecanoic acid	0.17	mg/Kg dry	167598	12.913	1	000057-10-3	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Octane, 2,6-dimethyl-	0.17	mg/Kg dry	178266	9.454	1	002051-30-1	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Pentadecane (01)	0.93	mg/Kg dry	896631	11.807	1	000629-62-9	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Pentadecane, 2,6,10-trimethyl-	0.63	mg/Kg dry	935773	11.554	1	003892-00-0	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Tetradecane	0.22	mg/Kg dry	332400	10.272	1	000629-59-4	SW-846 8270D	7/17/13	7/21/13 12:40	CMR
Tridecane, 7-propyl-	0.26	mg/Kg dry	391707	11.148	1	055045-09-5	SW-846 8270D	7/17/13	7/21/13 12:40	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4 | Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	110	11	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
C19-C36 Aliphatics	42	11	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Unadjusted C11-C22 Aromatics	41	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
C11-C22 Aromatics	41	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	70.3	40-140		7/16/13 20:36
o-Terphenyl (OTP)	78.8	40-140		7/16/13 20:36
2-Bromonaphthalene	89.9	40-140		7/16/13 20:36
2-Fluorobiphenyl	97.2	40-140		7/16/13 20:36

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4 | Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.91

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
Unadjusted C9-C12 Aliphatics	21	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
C9-C12 Aliphatics	21	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
Benzene	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
Ethylbenzene	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
Naphthalene	ND	0.35	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
Toluene	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH
o-Xylene	ND	0.071	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 16:44	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	96.8	70-130		7/12/13 16:44
2,5-Dibromotoluene (PID)	109	70-130		7/12/13 16:44

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-4
Sampled: 7/10/2013 15:00

Sample ID: 13G0397-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.2		% Wt	1		SM 2540G	7/16/13	7/17/13 9:35	MLA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5 | Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Bromobenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Bromodichloromethane	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Bromoform	ND	0.0047	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
2-Butanone (MEK)	ND	0.047	0.021	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
tert-Butyl Alcohol (TBA)	ND	0.047	0.025	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 11:10	MFF
n-Butylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Carbon Tetrachloride	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Chlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Chlorodibromomethane	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Chloroform	ND	0.0047	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
2-Chlorotoluene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
4-Chlorotoluene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,2-Dibromoethane (EDB)	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,1-Dichloroethane	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,2-Dichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,1-Dichloroethylene	ND	0.0047	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,2-Dichloropropane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,3-Dichloropropane	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
2,2-Dichloropropane	ND	0.0047	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,1-Dichloropropene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Diisopropyl Ether (DIPE)	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Ethylbenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0047	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5 | Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.024	0.0084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Naphthalene	ND	0.0047	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
n-Propylbenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Styrene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Tetrachloroethylene	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Toluene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,2,3-Trichlorobenzene	ND	0.012	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,2,4-Trichlorobenzene	ND	0.012	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,2,3-Trichloropropane	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00094	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Vinyl Acetate	ND	0.047	0.0079	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 11:10	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
m+p Xylene	ND	0.0047	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 11:10	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	114	70-130		7/16/13 11:10
Toluene-d8	101	70-130		7/16/13 11:10
4-Bromofluorobenzene	101	70-130		7/16/13 11:10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5
Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/15/13	7/16/13 11:10	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5 | Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Benzo(a)pyrene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Bis(2-Ethylhexyl)phthalate	0.20	0.40	0.090	mg/Kg dry	1	J	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
4-Bromophenylphenylether	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2-Chloronaphthalene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Dibenzofuran	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
1,2-Dichlorobenzene	ND	0.40	0.081	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
1,3-Dichlorobenzene	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
1,4-Dichlorobenzene	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2,4-Dinitrophenol	ND	0.79	0.40	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Di-n-octylphthalate	ND	0.80	0.55	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Hexachlorocyclopentadiene	ND	0.40	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5 | Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Naphthalene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
N-Nitrosodiphenylamine	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
1,2,4-Trichlorobenzene	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 13:14	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	48.2	30-130		7/21/13 13:14
Phenol-d6	49.8	30-130		7/21/13 13:14
Nitrobenzene-d5	52.6	30-130		7/21/13 13:14
2-Fluorobiphenyl	50.2	30-130		7/21/13 13:14
2,4,6-Tribromophenol	81.7	30-130		7/21/13 13:14
p-Terphenyl-d14	68.2	30-130		7/21/13 13:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5
Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.16	mg/Kg dry	241474	14.548	1	000301-02-0	SW-846 8270D	7/17/13	7/21/13 13:14	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5 | Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 20:58	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	73.5	40-140		7/16/13 20:58
o-Terphenyl (OTP)	75.5	40-140		7/16/13 20:58
2-Bromonaphthalene	82.6	40-140		7/16/13 20:58
2-Fluorobiphenyl	89.6	40-140		7/16/13 20:58

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5 | Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.90

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
Unadjusted C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
C9-C10 Aromatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
Benzene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
Ethylbenzene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
Naphthalene	ND	0.38	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
Toluene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
m+p Xylene	ND	0.15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH
o-Xylene	ND	0.076	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:20	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	117	70-130		7/12/13 17:20
2,5-Dibromotoluene (PID)	114	70-130		7/12/13 17:20

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0397

Date Received: 7/10/2013

Field Sample #: WWA-5
Sampled: 7/10/2013 15:10

Sample ID: 13G0397-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	7/16/13	7/17/13 9:35	MLA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0397-02 [WWA-2]	B076730	20.0	2.00	07/15/13
13G0397-03 [WWA-3]	B076730	20.2	2.00	07/15/13
13G0397-04 [WWA-4]	B076730	20.2	2.00	07/15/13
13G0397-05 [WWA-5]	B076730	20.0	2.00	07/15/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0397-02 [WWA-2]	B076643	12.7	16.8	07/12/13
13G0397-03 [WWA-3]	B076643	14.2	17.5	07/12/13
13G0397-04 [WWA-4]	B076643	13.7	16.9	07/12/13
13G0397-05 [WWA-5]	B076643	13.5	17.3	07/12/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0397-02 [WWA-2]	B076845	07/16/13
13G0397-03 [WWA-3]	B076845	07/16/13
13G0397-04 [WWA-4]	B076845	07/16/13
13G0397-05 [WWA-5]	B076845	07/16/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0397-01 [Trip Blank]	B076660	5.00	10.0	07/12/13
13G0397-02 [WWA-2]	B076660	4.80	10.0	07/12/13
13G0397-03 [WWA-3]	B076660	4.67	10.0	07/12/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0397-04 [WWA-4]	B076754	4.96	10.0	07/15/13
13G0397-05 [WWA-5]	B076754	5.05	10.0	07/15/13

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0397-02 [WWA-2]	B076882	30.0	1.00	07/17/13
13G0397-03 [WWA-3]	B076882	30.1	1.00	07/17/13
13G0397-04 [WWA-4]	B076882	30.3	1.00	07/17/13
13G0397-05 [WWA-5]	B076882	30.0	1.00	07/17/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076660 - SW-846 5035										
Blank (B076660-BLK1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							L-04
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076660 - SW-846 5035												
Blank (B076660-BLK1)				Prepared: 07/12/13 Analyzed: 07/15/13								
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Acetate	ND	0.010	mg/Kg wet								V-16	
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0513*		mg/Kg wet	0.0500		103		70-130				
Surrogate: Toluene-d8	*0.0496*		mg/Kg wet	0.0500		99.1		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0495*		mg/Kg wet	0.0500		99.1		70-130				
LCS (B076660-BS1)				Prepared: 07/12/13 Analyzed: 07/15/13								
Acetone	0.161	0.10	mg/Kg wet	0.200		80.4		70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130		25		
Benzene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130		25		
Bromobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130		25		
Bromochloromethane	0.0230	0.0020	mg/Kg wet	0.0200		115		70-130		25		
Bromodichloromethane	0.0207	0.0020	mg/Kg wet	0.0200		103		70-130		25		
Bromoform	0.0178	0.0020	mg/Kg wet	0.0200		89.0		70-130		25		
Bromomethane	0.0164	0.010	mg/Kg wet	0.0200		82.0		40-130		25	V-20	†
2-Butanone (MEK)	0.188	0.040	mg/Kg wet	0.200		94.1		70-160		25		†
tert-Butyl Alcohol (TBA)	0.180	0.040	mg/Kg wet	0.200		90.0		40-130		25	V-16	†
n-Butylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130		25		
sec-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130		25		
tert-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0230	0.0010	mg/Kg wet	0.0200		115		70-130		25		
Carbon Tetrachloride	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130		25		
Chlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130		25		
Chlorodibromomethane	0.0196	0.0010	mg/Kg wet	0.0200		98.0		70-130		25		
Chloroethane	0.0203	0.020	mg/Kg wet	0.0200		102		70-130		25		
Chloroform	0.0211	0.0040	mg/Kg wet	0.0200		106		70-130		25		
Chloromethane	0.0121	0.010	mg/Kg wet	0.0200		**60.3**	*	70-130		25	L-04	
2-Chlorotoluene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130		25		
4-Chlorotoluene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130		25		
1,2-Dibromoethane (EDB)	0.0206	0.0010	mg/Kg wet	0.0200		103		70-130		25		
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130		25		
1,3-Dichlorobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130		25		
1,4-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		103		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.00880	0.020	mg/Kg wet	0.0200		44.0		40-160		25	J	†
1,1-Dichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130		25		
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130		25		
1,1-Dichloroethylene	0.0221	0.0040	mg/Kg wet	0.0200		111		70-130		25		
cis-1,2-Dichloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130		25		
trans-1,2-Dichloroethylene	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130		25		
1,2-Dichloropropane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076660 - SW-846 5035											
LCS (B076660-BS1)				Prepared: 07/12/13 Analyzed: 07/15/13							
1,3-Dichloropropane	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130		25		
2,2-Dichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130		25		
1,1-Dichloropropene	0.0231	0.0020	mg/Kg wet	0.0200		115	70-130		25		
cis-1,3-Dichloropropene	0.0205	0.0010	mg/Kg wet	0.0200		102	70-130		25		
trans-1,3-Dichloropropene	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130		25		
Diisopropyl Ether (DIPE)	0.0230	0.0010	mg/Kg wet	0.0200		115	70-130		25		
Ethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130		25		
2-Hexanone (MBK)	0.187	0.020	mg/Kg wet	0.200		93.5	70-160		25		†
Isopropylbenzene (Cumene)	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0236	0.0040	mg/Kg wet	0.0200		118	70-130		25		
Methylene Chloride	0.0211	0.020	mg/Kg wet	0.0200		105	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.196	0.020	mg/Kg wet	0.200		98.0	70-160		25		†
Naphthalene	0.0185	0.0040	mg/Kg wet	0.0200		92.6	40-130		25		†
n-Propylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Styrene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130		25		
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130		25		
1,1,2,2-Tetrachloroethane	0.0204	0.0010	mg/Kg wet	0.0200		102	70-130		25		
Tetrachloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Toluene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130		25		
1,2,3-Trichlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130		25		
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130		25		
1,1,1-Trichloroethane	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130		25		
1,1,2-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130		25		
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0204	0.010	mg/Kg wet	0.0200		102	70-130		25		
1,2,3-Trichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,2,4-Trimethylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130		25		
1,3,5-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130		25		
Vinyl Acetate	0.173	0.010	mg/Kg wet	0.200		86.7	70-130		25	V-16	
Vinyl Chloride	0.0152	0.010	mg/Kg wet	0.0200		76.1	40-130		25		†
m+p Xylene	0.0417	0.0040	mg/Kg wet	0.0400		104	70-130		25		
o-Xylene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0507*		mg/Kg wet	0.0500		101	70-130				
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0503*		mg/Kg wet	0.0500		101	70-130				
LCS Dup (B076660-BSD1)				Prepared: 07/12/13 Analyzed: 07/15/13							
Acetone	0.155	0.10	mg/Kg wet	0.200		77.6	70-160	3.48	25		†
tert-Amyl Methyl Ether (TAME)	0.0218	0.0010	mg/Kg wet	0.0200		109	70-130	0.0917	25		
Benzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.580	25		
Bromobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.4	70-130	2.73	25		
Bromochloromethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	1.58	25		
Bromodichloromethane	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	2.25	25		
Bromoform	0.0170	0.0020	mg/Kg wet	0.0200		85.2	70-130	4.36	25		
Bromomethane	0.0194	0.010	mg/Kg wet	0.0200		97.1	40-130	16.9	25	V-20	†
2-Butanone (MEK)	0.185	0.040	mg/Kg wet	0.200		92.7	70-160	1.55	25		†
tert-Butyl Alcohol (TBA)	0.178	0.040	mg/Kg wet	0.200		88.8	40-130	1.44	25	V-16	†
n-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.02	25		
sec-Butylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	2.01	25		
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-160	3.18	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	1.76	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076660 - SW-846 5035												
LCS Dup (B076660-BSD1)				Prepared: 07/12/13 Analyzed: 07/15/13								
Carbon Tetrachloride	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	1.60	25		
Chlorobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	2.19	25		
Chlorodibromomethane	0.0187	0.0010	mg/Kg wet	0.0200		93.5		70-130	4.70	25		
Chloroethane	0.0203	0.020	mg/Kg wet	0.0200		102		70-130	0.00	25		
Chloroform	0.0216	0.0040	mg/Kg wet	0.0200		108		70-130	2.06	25		
Chloromethane	0.0119	0.010	mg/Kg wet	0.0200		**59.6**	*	70-130	1.17	25	L-04	
2-Chlorotoluene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	2.49	25		
4-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	2.53	25		
1,2-Dibromoethane (EDB)	0.0199	0.0010	mg/Kg wet	0.0200		99.7		70-130	3.16	25		
1,2-Dichlorobenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.8		70-130	2.70	25		
1,3-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.9		70-130	2.28	25		
1,4-Dichlorobenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	1.97	25		
Dichlorodifluoromethane (Freon 12)	0.00864	0.020	mg/Kg wet	0.0200		43.2		40-160	1.83	25	J	†
1,1-Dichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		108		70-130	0.827	25		
1,2-Dichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	3.75	25		
1,1-Dichloroethylene	0.0219	0.0040	mg/Kg wet	0.0200		110		70-130	0.908	25		
cis-1,2-Dichloroethylene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	1.11	25		
trans-1,2-Dichloroethylene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130	0.451	25		
1,2-Dichloropropane	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130	2.99	25		
1,3-Dichloropropane	0.0211	0.0010	mg/Kg wet	0.0200		106		70-130	2.80	25		
2,2-Dichloropropane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	3.27	25		
1,1-Dichloropropene	0.0226	0.0020	mg/Kg wet	0.0200		113		70-130	1.93	25		
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.0		70-130	3.38	25		
trans-1,3-Dichloropropene	0.0213	0.0010	mg/Kg wet	0.0200		106		70-130	2.23	25		
Diisopropyl Ether (DIPE)	0.0223	0.0010	mg/Kg wet	0.0200		112		70-130	3.09	25		
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	2.92	25		
2-Hexanone (MBK)	0.180	0.020	mg/Kg wet	0.200		90.1		70-160	3.74	25		†
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	1.26	25		
p-Isopropyltoluene (p-Cymene)	0.0209	0.0020	mg/Kg wet	0.0200		104		70-130	2.74	25		
Methyl tert-Butyl Ether (MTBE)	0.0230	0.0040	mg/Kg wet	0.0200		115		70-130	2.23	25		
Methylene Chloride	0.0211	0.020	mg/Kg wet	0.0200		106		40-160	0.190	25		†
4-Methyl-2-pentanone (MIBK)	0.191	0.020	mg/Kg wet	0.200		95.6		70-160	2.54	25		†
Naphthalene	0.0183	0.0040	mg/Kg wet	0.0200		91.3		40-130	1.41	25		†
n-Propylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104		70-130	2.37	25		
Styrene	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	1.65	25		
1,1,1,2-Tetrachloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130	3.62	25		
1,1,2,2-Tetrachloroethane	0.0199	0.0010	mg/Kg wet	0.0200		99.5		70-130	2.58	25		
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	4.25	25		
Toluene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	2.43	25		
1,2,3-Trichlorobenzene	0.0172	0.0020	mg/Kg wet	0.0200		85.8		70-130	3.66	25		
1,2,4-Trichlorobenzene	0.0173	0.0020	mg/Kg wet	0.0200		86.5		70-130	4.85	25		
1,1,1-Trichloroethane	0.0201	0.0020	mg/Kg wet	0.0200		100		70-130	1.29	25		
1,1,2-Trichloroethane	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130	2.68	25		
Trichloroethylene	0.0197	0.0020	mg/Kg wet	0.0200		98.5		70-130	4.66	25		
Trichlorofluoromethane (Freon 11)	0.0209	0.010	mg/Kg wet	0.0200		104		70-130	2.13	25		
1,2,3-Trichloropropane	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130	4.65	25		
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130	3.28	25		
1,3,5-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		101		70-130	1.09	25		
Vinyl Acetate	0.178	0.010	mg/Kg wet	0.200		89.2		70-130	2.81	25	V-16	
Vinyl Chloride	0.0150	0.010	mg/Kg wet	0.0200		74.9		40-130	1.59	25		†
m+p Xylene	0.0408	0.0040	mg/Kg wet	0.0400		102		70-130	2.08	25		
o-Xylene	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130	2.35	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076660 - SW-846 5035										
LCS Dup (B076660-BSD1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Surrogate: 1,2-Dichloroethane-d4	*0.0513*		mg/Kg wet	0.0500		103	70-130			
Surrogate: Toluene-d8	*0.0497*		mg/Kg wet	0.0500		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0499*		mg/Kg wet	0.0500		99.8	70-130			
Batch B076754 - SW-846 5035										
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Naphthalene	ND	0.0040	mg/Kg wet								
n-Propylbenzene	ND	0.0020	mg/Kg wet								
Styrene	ND	0.0020	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet								
Tetrachloroethylene	ND	0.0020	mg/Kg wet								
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Acetate	ND	0.010	mg/Kg wet							V-16	
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0525*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.7	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.0500		98.3	70-130				
LCS (B076754-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Acetone	0.190	0.10	mg/Kg wet	0.200		95.0	70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0233	0.0010	mg/Kg wet	0.0200		117	70-130		25		
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130		25		
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Bromochloromethane	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130		25		
Bromodichloromethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Bromoform	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130		25		
Bromomethane	0.0207	0.010	mg/Kg wet	0.0200		104	40-130		25	V-20	†
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	70-160		25		†
tert-Butyl Alcohol (TBA)	0.199	0.040	mg/Kg wet	0.200		99.7	40-130		25	V-16	†
n-Butylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
sec-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130		25		
tert-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0244	0.0010	mg/Kg wet	0.0200		122	70-130		25		
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130		25		
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Chlorodibromomethane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130		25		
Chloroethane	0.0227	0.020	mg/Kg wet	0.0200		114	70-130		25		
Chloroform	0.0231	0.0040	mg/Kg wet	0.0200		116	70-130		25		
Chloromethane	0.0163	0.010	mg/Kg wet	0.0200		81.5	70-130		25		
2-Chlorotoluene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130		25		
4-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130		25		
1,2-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130		25		
1,3-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130		25		
1,4-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0175	0.020	mg/Kg wet	0.0200		87.5	40-160		25	J	†

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS (B076754-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13							
1,1-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
1,2-Dichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130		25		
cis-1,2-Dichloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130		25		
trans-1,2-Dichloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130		25		
1,2-Dichloropropane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130		25		
1,3-Dichloropropane	0.0237	0.0010	mg/Kg wet	0.0200		119	70-130		25		
2,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130		25		
1,1-Dichloropropene	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130		25		
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130		25		
trans-1,3-Dichloropropene	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130		25		
Diisopropyl Ether (DIPE)	0.0248	0.0010	mg/Kg wet	0.0200		124	70-130		25		
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
2-Hexanone (MBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160		25		†
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0250	0.0040	mg/Kg wet	0.0200		125	70-130		25		
Methylene Chloride	0.0228	0.020	mg/Kg wet	0.0200		114	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-160		25		†
Naphthalene	0.0193	0.0040	mg/Kg wet	0.0200		96.5	40-130		25		†
n-Propylbenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130		25		
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130		25		
1,1,2,2-Tetrachloroethane	0.0219	0.0010	mg/Kg wet	0.0200		109	70-130		25		
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Toluene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130		25		
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130		25		
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,1,2-Trichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Trichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0230	0.010	mg/Kg wet	0.0200		115	70-130		25		
1,2,3-Trichloropropane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130		25		
1,2,4-Trimethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
1,3,5-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Vinyl Acetate	0.198	0.010	mg/Kg wet	0.200		99.1	70-130		25	V-16	
Vinyl Chloride	0.0189	0.010	mg/Kg wet	0.0200		94.5	40-130		25		†
m+p Xylene	0.0448	0.0040	mg/Kg wet	0.0400		112	70-130		25		
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0525*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0505*		mg/Kg wet	0.0500		101	70-130				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Acetone	0.183	0.10	mg/Kg wet	0.200		91.3	70-160	3.93	25		†
tert-Amyl Methyl Ether (TAME)	0.0231	0.0010	mg/Kg wet	0.0200		115	70-130	1.21	25		
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.76	25		
Bromobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.853	25		
Bromochloromethane	0.0247	0.0020	mg/Kg wet	0.0200		123	70-130	0.243	25		
Bromodichloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.76	25		
Bromoform	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	1.65	25		
Bromomethane	0.0244	0.010	mg/Kg wet	0.0200		122	40-130	16.5	25	V-20	†
2-Butanone (MEK)	0.208	0.040	mg/Kg wet	0.200		104	70-160	1.69	25		†
tert-Butyl Alcohol (TBA)	0.202	0.040	mg/Kg wet	0.200		101	40-130	1.23	25	V-16	†
n-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	3.98	25		
sec-Butylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	2.08	25		
tert-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-160	3.17	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0241	0.0010	mg/Kg wet	0.0200		121	70-130	1.32	25		
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	0.103	25		
Chlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	2.83	25		
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130	3.35	25		
Chloroethane	0.0236	0.020	mg/Kg wet	0.0200		118	70-130	3.80	25		
Chloroform	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130	3.34	25		
Chloromethane	0.0164	0.010	mg/Kg wet	0.0200		81.9	70-130	0.490	25		
2-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	4.13	25		
4-Chlorotoluene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.46	25		
1,2-Dibromoethane (EDB)	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	1.02	25		
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.15	25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.25	25		
1,4-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.12	25		
Dichlorodifluoromethane (Freon 12)	0.0178	0.020	mg/Kg wet	0.0200		89.0	40-160	1.70	25	J	†
1,1-Dichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	0.354	25		
1,2-Dichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.917	25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130	0.00	25		
cis-1,2-Dichloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	0.618	25		
trans-1,2-Dichloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	1.64	25		
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.69	25		
1,3-Dichloropropane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	4.92	25		
2,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.868	25		
1,1-Dichloropropene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	0.508	25		
cis-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	1.63	25		
trans-1,3-Dichloropropene	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130	1.95	25		
Diisopropyl Ether (DIPE)	0.0242	0.0010	mg/Kg wet	0.0200		121	70-130	2.53	25		
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.68	25		
2-Hexanone (MBK)	0.203	0.020	mg/Kg wet	0.200		101	70-160	2.64	25		†
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	2.10	25		
p-Isopropyltoluene (p-Cymene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	2.59	25		
Methyl tert-Butyl Ether (MTBE)	0.0243	0.0040	mg/Kg wet	0.0200		122	70-130	2.76	25		
Methylene Chloride	0.0231	0.020	mg/Kg wet	0.0200		116	40-160	1.48	25		†
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		107	70-160	2.06	25		†
Naphthalene	0.0191	0.0040	mg/Kg wet	0.0200		95.5	40-130	1.04	25		†
n-Propylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	3.29	25		
Styrene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.66	25		
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.33	25		
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	2.41	25		
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.13	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Toluene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	3.77	25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	1.94	25		
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130	2.28	25		
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.27	25		
1,1,2-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	1.45	25		
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.24	25		
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		116	70-130	0.607	25		
1,2,3-Trichloropropane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	7.69	25		
1,2,4-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.85	25		
1,3,5-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	3.21	25		
Vinyl Acetate	0.204	0.010	mg/Kg wet	0.200		102	70-130	2.91	25	V-16	
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		95.9	40-130	1.47	25		†
m+p Xylene	0.0436	0.0040	mg/Kg wet	0.0400		109	70-130	2.72	25		
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	3.96	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0538*		mg/Kg wet	0.0500		108	70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0493*		mg/Kg wet	0.0500		98.6	70-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076660 - SW-846 5035										
Blank (B076660-BLK1)				Prepared: 07/12/13 Analyzed: 07/15/13						
No TICs Found	0.0		mg/Kg wet							
Batch B076754 - SW-846 5035										
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076882 - SW-846 3546										
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.66*		mg/Kg wet	6.67		54.9		30-130				
Surrogate: Phenol-d6	*3.74*		mg/Kg wet	6.67		56.1		30-130				
Surrogate: Nitrobenzene-d5	*2.00*		mg/Kg wet	3.33		59.9		30-130				
Surrogate: 2-Fluorobiphenyl	*1.92*		mg/Kg wet	3.33		57.5		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.56*		mg/Kg wet	6.67		68.5		30-130				
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.6		30-130				
LCS (B076882-BS1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Acenaphthene	0.995	0.17	mg/Kg wet	1.67		59.7		40-140		30		
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3		40-140		30		
Anthracene	1.03	0.17	mg/Kg wet	1.67		61.7		40-140		30		
Benzo(a)anthracene	1.10	0.17	mg/Kg wet	1.67		65.9		40-140		30		
Benzo(a)pyrene	1.03	0.17	mg/Kg wet	1.67		61.7		40-140		30		
Benzo(b)fluoranthene	0.908	0.17	mg/Kg wet	1.67		54.5		40-140		30		
Benzo(g,h,i)perylene	1.18	0.17	mg/Kg wet	1.67		70.5		40-140		30		
Benzo(k)fluoranthene	0.945	0.17	mg/Kg wet	1.67		56.7		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	0.962	0.34	mg/Kg wet	1.67		57.7		40-140		30		
Bis(2-chloroethyl)ether	0.927	0.34	mg/Kg wet	1.67		55.6		40-140		30		
Bis(2-chloroisopropyl)ether	0.777	0.34	mg/Kg wet	1.67		46.6		40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	0.941	0.34	mg/Kg wet	1.67		56.5		40-140		30		
4-Bromophenylphenylether	1.15	0.34	mg/Kg wet	1.67		68.9		40-140		30		
Butylbenzylphthalate	1.05	0.34	mg/Kg wet	1.67		62.7		40-140		30		
4-Chloroaniline	0.739	0.66	mg/Kg wet	1.67		44.4		10-140		30		†
4-Chloro-3-methylphenol	0.969	0.66	mg/Kg wet	1.67		58.1		30-130		30		
2-Chloronaphthalene	0.926	0.34	mg/Kg wet	1.67		55.6		40-140		30		
2-Chlorophenol	0.897	0.34	mg/Kg wet	1.67		53.8		30-130		30		
4-Chlorophenylphenylether	0.922	0.34	mg/Kg wet	1.67		55.3		40-140		30		
Chrysene	1.07	0.17	mg/Kg wet	1.67		64.0		40-140		30		
Dibenz(a,h)anthracene	1.19	0.17	mg/Kg wet	1.67		71.1		40-140		30		
Dibenzofuran	0.994	0.34	mg/Kg wet	1.67		59.7		40-140		30		
Di-n-butylphthalate	0.987	0.34	mg/Kg wet	1.67		59.2		40-140		30		
1,2-Dichlorobenzene	0.791	0.34	mg/Kg wet	1.67		47.5		40-140		30		
1,3-Dichlorobenzene	0.781	0.34	mg/Kg wet	1.67		46.8		40-140		30		
1,4-Dichlorobenzene	0.781	0.34	mg/Kg wet	1.67		46.9		40-140		30		
3,3-Dichlorobenzidine	0.948	0.17	mg/Kg wet	1.67		56.9		20-140		50		†
2,4-Dichlorophenol	1.04	0.34	mg/Kg wet	1.67		62.2		30-130		30		
Diethylphthalate	0.945	0.34	mg/Kg wet	1.67		56.7		40-140		30		
2,4-Dimethylphenol	1.04	0.34	mg/Kg wet	1.67		62.6		30-130		30		
Dimethylphthalate	0.993	0.34	mg/Kg wet	1.67		59.6		40-140		30		
4,6-Dinitro-2-methylphenol	1.17	0.34	mg/Kg wet	1.67		70.0		30-130		30		
2,4-Dinitrophenol	0.958	0.66	mg/Kg wet	1.67		57.5		30-130		30	V-06	
Di-n-octylphthalate	0.827	0.67	mg/Kg wet	1.67		49.6		40-140		30		
1,2-Diphenylhydrazine (as Azobenzene)	0.990	0.34	mg/Kg wet	1.67		59.4		40-140		30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
LCS (B076882-BS1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.2		40-140		30		
Fluorene	0.920	0.17	mg/Kg wet	1.67		55.2		40-140		30		
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5		40-140		30		
Hexachlorobutadiene	0.881	0.34	mg/Kg wet	1.67		52.9		40-140		30		
Hexachlorocyclopentadiene	0.611	0.34	mg/Kg wet	1.67		**36.6**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.776	0.34	mg/Kg wet	1.67		46.5		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2		40-140		30		
Isophorone	0.944	0.34	mg/Kg wet	1.67		56.6		40-140		30		
1-Methylnaphthalene	0.890	0.17	mg/Kg wet	1.67		53.4		40-140		30		
2-Methylnaphthalene	0.854	0.17	mg/Kg wet	1.67		51.3		40-140		30		
2-Methylphenol	0.930	0.34	mg/Kg wet	1.67		55.8		30-130		30		
3/4-Methylphenol	0.936	0.34	mg/Kg wet	1.67		56.2		30-130		30	V-05	
Naphthalene	0.905	0.17	mg/Kg wet	1.67		54.3		40-140		30		
Nitrobenzene	0.922	0.34	mg/Kg wet	1.67		55.3		40-140		30		
2-Nitrophenol	1.11	0.34	mg/Kg wet	1.67		66.6		30-130		30		
4-Nitrophenol	0.975	0.66	mg/Kg wet	1.67		58.5		30-130		50		
N-Nitrosodiphenylamine	1.37	0.34	mg/Kg wet	1.67		82.4		40-140		30		
N-Nitrosodi-n-propylamine	0.749	0.34	mg/Kg wet	1.67		44.9		40-140		30	V-05	
Pentachlorophenol	0.743	0.34	mg/Kg wet	1.67		44.6		30-130		30		
Phenanthrene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140		30		
Phenol	0.829	0.34	mg/Kg wet	1.67		49.8		30-130		30		
Pyrene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140		30		
1,2,4-Trichlorobenzene	0.949	0.34	mg/Kg wet	1.67		57.0		40-140		30		
2,4,6-Trichlorophenol	1.05	0.34	mg/Kg wet	1.67		62.7		30-130		30		
Surrogate: 2-Fluorophenol	*3.62*		mg/Kg wet	6.67		54.3		30-130				
Surrogate: Phenol-d6	*3.64*		mg/Kg wet	6.67		54.7		30-130				
Surrogate: Nitrobenzene-d5	*1.97*		mg/Kg wet	3.33		59.2		30-130				
Surrogate: 2-Fluorobiphenyl	*1.96*		mg/Kg wet	3.33		58.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.09*		mg/Kg wet	6.67		76.3		30-130				
Surrogate: p-Terphenyl-d14	*2.39*		mg/Kg wet	3.33		71.7		30-130				
LCS Dup (B076882-BSD1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140	14.2	30		
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.8		40-140	14.3	30		
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.9		40-140	16.6	30		
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		73.7		40-140	11.1	30		
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140	15.3	30		
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		60.9		40-140	11.2	30		
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.4		40-140	9.01	30		
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.0		40-140	20.9	30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.14	0.34	mg/Kg wet	1.67		68.7		40-140	17.3	30		
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		64.7		40-140	15.0	30		
Bis(2-chloroisopropyl)ether	0.913	0.34	mg/Kg wet	1.67		54.8		40-140	16.2	30	V-05	
Bis(2-Ethylhexyl)phthalate	1.03	0.34	mg/Kg wet	1.67		61.8		40-140	9.00	30		
4-Bromophenylphenylether	1.35	0.34	mg/Kg wet	1.67		81.2		40-140	16.4	30		
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.8		40-140	14.8	30		
4-Chloroaniline	0.673	0.66	mg/Kg wet	1.67		40.4		10-140	9.39	30		†
4-Chloro-3-methylphenol	1.14	0.66	mg/Kg wet	1.67		68.5		30-130	16.5	30		
2-Chloronaphthalene	1.14	0.34	mg/Kg wet	1.67		68.3		40-140	20.5	30		
2-Chlorophenol	1.04	0.34	mg/Kg wet	1.67		62.7		30-130	15.2	30		
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		63.0		40-140	13.0	30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
LCS Dup (B076882-BSD1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.5		40-140	13.7	30		
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.2		40-140	2.79	30		
Dibenzofuran	1.12	0.34	mg/Kg wet	1.67		67.5		40-140	12.3	30		
Di-n-butylphthalate	1.21	0.34	mg/Kg wet	1.67		72.4		40-140	20.0	30		
1,2-Dichlorobenzene	0.921	0.34	mg/Kg wet	1.67		55.2		40-140	15.2	30		
1,3-Dichlorobenzene	0.905	0.34	mg/Kg wet	1.67		54.3		40-140	14.7	30		
1,4-Dichlorobenzene	0.904	0.34	mg/Kg wet	1.67		54.2		40-140	14.6	30		
3,3-Dichlorobenzidine	1.01	0.17	mg/Kg wet	1.67		60.7		20-140	6.53	50		† ‡
2,4-Dichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.1		30-130	16.2	30		
Diethylphthalate	1.16	0.34	mg/Kg wet	1.67		69.8		40-140	20.7	30		
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.3		30-130	15.7	30		
Dimethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.7		40-140	19.9	30		
4,6-Dinitro-2-methylphenol	1.30	0.34	mg/Kg wet	1.67		77.8		30-130	10.6	30		
2,4-Dinitrophenol	1.01	0.66	mg/Kg wet	1.67		60.7		30-130	5.45	30	V-06	
Di-n-octylphthalate	0.969	0.67	mg/Kg wet	1.67		58.1		40-140	15.7	30		
1,2-Diphenylhydrazine (as Azobenzene)	1.29	0.34	mg/Kg wet	1.67		77.5		40-140	26.5	30		
Fluoranthene	1.30	0.17	mg/Kg wet	1.67		78.0		40-140	17.9	30		
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.3		40-140	10.5	30		
Hexachlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.4		40-140	20.1	30		
Hexachlorobutadiene	1.06	0.34	mg/Kg wet	1.67		63.4		40-140	18.2	30		
Hexachlorocyclopentadiene	0.566	0.34	mg/Kg wet	1.67		**34.0**	*	40-140	7.53	30	L-04, V-05	
Hexachloroethane	0.892	0.34	mg/Kg wet	1.67		53.5		40-140	14.0	30	V-05	
Indeno(1,2,3-cd)pyrene	1.14	0.17	mg/Kg wet	1.67		68.3		40-140	4.07	30		
Isophorone	1.13	0.34	mg/Kg wet	1.67		67.8		40-140	17.9	30		
1-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		62.9		40-140	16.4	30		
2-Methylnaphthalene	0.997	0.17	mg/Kg wet	1.67		59.8		40-140	15.4	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		63.9		30-130	13.6	30		
3/4-Methylphenol	1.06	0.34	mg/Kg wet	1.67		63.8		30-130	12.7	30	V-05	
Naphthalene	1.04	0.17	mg/Kg wet	1.67		62.2		40-140	13.5	30		
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.5		40-140	10.6	30		
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.3		30-130	10.9	30		
4-Nitrophenol	1.14	0.66	mg/Kg wet	1.67		68.3		30-130	15.5	50		‡
N-Nitrosodiphenylamine	1.56	0.34	mg/Kg wet	1.67		93.7		40-140	12.9	30		
N-Nitrosodi-n-propylamine	0.889	0.34	mg/Kg wet	1.67		53.4		40-140	17.2	30	V-05	
Pentachlorophenol	0.956	0.34	mg/Kg wet	1.67		57.3		30-130	25.0	30		
Phenanthrene	1.26	0.17	mg/Kg wet	1.67		75.6		40-140	12.6	30		
Phenol	0.915	0.34	mg/Kg wet	1.67		54.9		30-130	9.79	30		
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.4		40-140	14.8	30		
1,2,4-Trichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.8		40-140	15.8	30		
2,4,6-Trichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.2		30-130	15.3	30		
Surrogate: 2-Fluorophenol	*4.06*		mg/Kg wet	6.67		60.9		30-130				
Surrogate: Phenol-d6	*3.99*		mg/Kg wet	6.67		59.9		30-130				
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/Kg wet	3.33		63.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.96*		mg/Kg wet	6.67		89.4		30-130				
Surrogate: p-Terphenyl-d14	*2.68*		mg/Kg wet	3.33		80.4		30-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076882 - SW-846 3546										
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
Blank (B076730-BLK1)				Prepared & Analyzed: 07/15/13							
C9-C18 Aliphatics	ND	10	mg/Kg wet								L-04
C19-C36 Aliphatics	ND	10	mg/Kg wet								L-04
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								
Phenanthrene	ND	0.10	mg/Kg wet								
Pyrene	ND	0.10	mg/Kg wet								
Surrogate: Chlorooctadecane (COD)	*2.81*		mg/Kg wet	4.99		56.3		40-140			
Surrogate: o-Terphenyl (OTP)	*2.94*		mg/Kg wet	5.00		58.8		40-140			
Surrogate: 2-Bromonaphthalene	*5.07*		mg/Kg wet	5.00		101		40-140			
Surrogate: 2-Fluorobiphenyl	*5.34*		mg/Kg wet	5.00		107		40-140			
LCS (B076730-BS1)				Prepared & Analyzed: 07/15/13							
Acenaphthene	2.83	0.10	mg/Kg wet	5.00		56.6		40-140			
Acenaphthylene	2.81	0.10	mg/Kg wet	5.00		56.2		40-140			
Anthracene	4.16	0.10	mg/Kg wet	5.00		83.1		40-140			
Benzo(a)anthracene	4.31	0.10	mg/Kg wet	5.00		86.2		40-140			
Benzo(a)pyrene	3.98	0.10	mg/Kg wet	5.00		79.6		40-140			
Benzo(b)fluoranthene	4.20	0.10	mg/Kg wet	5.00		83.9		40-140			
Benzo(g,h,i)perylene	3.90	0.10	mg/Kg wet	5.00		78.0		40-140			
Benzo(k)fluoranthene	4.02	0.10	mg/Kg wet	5.00		80.4		40-140			
Chrysene	3.97	0.10	mg/Kg wet	5.00		79.4		40-140			
Dibenz(a,h)anthracene	4.09	0.10	mg/Kg wet	5.00		81.9		40-140			
Fluoranthene	4.23	0.10	mg/Kg wet	5.00		84.5		40-140			
Fluorene	3.35	0.10	mg/Kg wet	5.00		67.0		40-140			
Indeno(1,2,3-cd)pyrene	4.29	0.10	mg/Kg wet	5.00		85.7		40-140			
2-Methylnaphthalene	2.80	0.10	mg/Kg wet	5.00		56.0		40-140			
Naphthalene	2.53	0.10	mg/Kg wet	5.00		50.6		40-140			
Phenanthrene	4.01	0.10	mg/Kg wet	5.00		80.2		40-140			
Pyrene	4.17	0.10	mg/Kg wet	5.00		83.4		40-140			
n-Decane	1.60	0.10	mg/Kg wet	5.00		**31.9**	*	40-140			L-04
n-Docosane	4.12	0.10	mg/Kg wet	5.00		82.4		40-140			
n-Dodecane	2.18	0.10	mg/Kg wet	5.00		43.5		40-140			
n-Eicosane	4.00	0.10	mg/Kg wet	5.00		79.9		40-140			
n-Hexacosane	4.11	0.10	mg/Kg wet	5.00		82.2		40-140			
n-Hexadecane	3.24	0.10	mg/Kg wet	5.00		64.7		40-140			
n-Hexatriacontane	1.69	0.10	mg/Kg wet	5.00		**33.8**	*	40-140			L-04
n-Nonadecane	3.97	0.10	mg/Kg wet	5.00		79.3		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
LCS (B076730-BS1)				Prepared & Analyzed: 07/15/13							
n-Nonane	1.05	0.10	mg/Kg wet	5.00		**21.0**	*	30-140			L-04
n-Octacosane	3.96	0.10	mg/Kg wet	5.00		79.2		40-140			
n-Octadecane	3.82	0.10	mg/Kg wet	5.00		76.4		40-140			
n-Tetracosane	4.13	0.10	mg/Kg wet	5.00		82.7		40-140			
n-Tetradecane	2.56	0.10	mg/Kg wet	5.00		51.1		40-140			
n-Triacontane	3.96	0.10	mg/Kg wet	5.00		79.3		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.74*		mg/Kg wet	4.99		74.9		40-140			
Surrogate: o-Terphenyl (OTP)	*3.40*		mg/Kg wet	5.00		68.0		40-140			
Surrogate: 2-Bromonaphthalene	*4.39*		mg/Kg wet	5.00		87.8		40-140			
Surrogate: 2-Fluorobiphenyl	*4.64*		mg/Kg wet	5.00		92.8		40-140			
LCS Dup (B076730-BSD1)				Prepared & Analyzed: 07/15/13							
Acenaphthene	2.96	0.10	mg/Kg wet	5.00		59.3		40-140	4.68	25	
Acenaphthylene	2.95	0.10	mg/Kg wet	5.00		59.1		40-140	4.99	25	
Anthracene	3.71	0.10	mg/Kg wet	5.00		74.3		40-140	11.2	25	
Benzo(a)anthracene	3.71	0.10	mg/Kg wet	5.00		74.2		40-140	15.1	25	
Benzo(a)pyrene	3.42	0.10	mg/Kg wet	5.00		68.4		40-140	15.2	25	
Benzo(b)fluoranthene	3.58	0.10	mg/Kg wet	5.00		71.6		40-140	15.9	25	
Benzo(g,h,i)perylene	3.34	0.10	mg/Kg wet	5.00		66.8		40-140	15.4	25	
Benzo(k)fluoranthene	3.48	0.10	mg/Kg wet	5.00		69.5		40-140	14.5	25	
Chrysene	3.44	0.10	mg/Kg wet	5.00		68.8		40-140	14.3	25	
Dibenz(a,h)anthracene	3.53	0.10	mg/Kg wet	5.00		70.6		40-140	14.8	25	
Fluoranthene	3.66	0.10	mg/Kg wet	5.00		73.3		40-140	14.2	25	
Fluorene	3.37	0.10	mg/Kg wet	5.00		67.4		40-140	0.619	25	
Indeno(1,2,3-cd)pyrene	3.65	0.10	mg/Kg wet	5.00		73.1		40-140	16.0	25	
2-Methylnaphthalene	2.85	0.10	mg/Kg wet	5.00		56.9		40-140	1.61	25	
Naphthalene	2.55	0.10	mg/Kg wet	5.00		51.0		40-140	0.897	25	
Phenanthrene	3.65	0.10	mg/Kg wet	5.00		73.0		40-140	9.39	25	
Pyrene	3.61	0.10	mg/Kg wet	5.00		72.1		40-140	14.6	25	
n-Decane	1.60	0.10	mg/Kg wet	5.00		**32.0**	*	40-140	0.257	25	L-04
n-Docosane	3.84	0.10	mg/Kg wet	5.00		76.7		40-140	7.13	25	
n-Dodecane	2.29	0.10	mg/Kg wet	5.00		45.8		40-140	5.12	25	
n-Eicosane	3.73	0.10	mg/Kg wet	5.00		74.7		40-140	6.76	25	
n-Hexacosane	3.82	0.10	mg/Kg wet	5.00		76.3		40-140	7.46	25	
n-Hexadecane	3.39	0.10	mg/Kg wet	5.00		67.8		40-140	4.61	25	
n-Hexatriacontane	1.58	0.10	mg/Kg wet	5.00		**31.5**	*	40-140	7.14	25	L-04
n-Nonadecane	3.72	0.10	mg/Kg wet	5.00		74.4		40-140	6.34	25	
n-Nonane	0.982	0.10	mg/Kg wet	5.00		**19.6**	*	30-140	6.74	25	L-04
n-Octacosane	3.66	0.10	mg/Kg wet	5.00		73.3		40-140	7.81	25	
n-Octadecane	3.65	0.10	mg/Kg wet	5.00		73.1		40-140	4.44	25	
n-Tetracosane	3.83	0.10	mg/Kg wet	5.00		76.7		40-140	7.56	25	
n-Tetradecane	2.85	0.10	mg/Kg wet	5.00		57.1		40-140	11.0	25	
n-Triacontane	3.67	0.10	mg/Kg wet	5.00		73.5		40-140	7.57	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.37*		mg/Kg wet	4.99		67.6		40-140			
Surrogate: o-Terphenyl (OTP)	*2.93*		mg/Kg wet	5.00		58.6		40-140			
Surrogate: 2-Bromonaphthalene	*4.45*		mg/Kg wet	5.00		89.0		40-140			
Surrogate: 2-Fluorobiphenyl	*4.71*		mg/Kg wet	5.00		94.2		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076643 - MA VPH										
Blank (B076643-BLK1)				Prepared & Analyzed: 07/12/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*2.79*		mg/Kg wet	3.33		83.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.68*		mg/Kg wet	3.33		80.4	70-130			
LCS (B076643-BS1)				Prepared & Analyzed: 07/12/13						
Benzene	5.07	0.050	mg/Kg wet	5.00		101	70-130			
Butylcyclohexane	4.03	0.050	mg/Kg wet	5.00		80.7	70-130			
Decane	4.18	0.050	mg/Kg wet	5.00		83.6	70-130			
Ethylbenzene	5.40	0.050	mg/Kg wet	5.00		108	70-130			
Methyl tert-Butyl Ether (MTBE)	4.98	0.050	mg/Kg wet	5.00		99.6	70-130			
2-Methylpentane	4.16	0.050	mg/Kg wet	5.00		83.1	70-130			
Naphthalene	4.77	0.25	mg/Kg wet	5.00		95.4	70-130			
Nonane	3.89	0.050	mg/Kg wet	5.00		77.8	30-130			
Pentane	3.82	0.050	mg/Kg wet	5.00		76.4	70-130			
Toluene	5.28	0.050	mg/Kg wet	5.00		106	70-130			
1,2,4-Trimethylbenzene	5.08	0.050	mg/Kg wet	5.00		102	70-130			
2,2,4-Trimethylpentane	4.39	0.050	mg/Kg wet	5.00		87.8	70-130			
m+p Xylene	11.0	0.10	mg/Kg wet	10.0		110	70-130			
o-Xylene	5.38	0.050	mg/Kg wet	5.00		108	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*2.65*		mg/Kg wet	3.33		79.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.52*		mg/Kg wet	3.33		75.7	70-130			
LCS Dup (B076643-BSD1)				Prepared & Analyzed: 07/12/13						
Benzene	4.99	0.050	mg/Kg wet	5.00		99.7	70-130	1.60	25	
Butylcyclohexane	4.01	0.050	mg/Kg wet	5.00		80.1	70-130	0.699	25	
Decane	4.16	0.050	mg/Kg wet	5.00		83.1	70-130	0.530	25	
Ethylbenzene	5.31	0.050	mg/Kg wet	5.00		106	70-130	1.66	25	
Methyl tert-Butyl Ether (MTBE)	4.97	0.050	mg/Kg wet	5.00		99.5	70-130	0.154	25	
2-Methylpentane	3.99	0.050	mg/Kg wet	5.00		79.8	70-130	4.06	25	
Naphthalene	4.89	0.25	mg/Kg wet	5.00		97.8	70-130	2.46	25	
Nonane	3.91	0.050	mg/Kg wet	5.00		78.1	30-130	0.411	25	
Pentane	3.70	0.050	mg/Kg wet	5.00		74.0	70-130	3.24	25	
Toluene	5.21	0.050	mg/Kg wet	5.00		104	70-130	1.34	25	
1,2,4-Trimethylbenzene	5.04	0.050	mg/Kg wet	5.00		101	70-130	0.826	25	
2,2,4-Trimethylpentane	4.15	0.050	mg/Kg wet	5.00		83.0	70-130	5.61	25	
m+p Xylene	10.8	0.10	mg/Kg wet	10.0		108	70-130	1.32	25	
o-Xylene	5.32	0.050	mg/Kg wet	5.00		106	70-130	1.19	25	
Surrogate: 2,5-Dibromotoluene (FID)	*2.85*		mg/Kg wet	3.33		85.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.71*		mg/Kg wet	3.33		81.4	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

SCS	Scott C. Sadowski
PEB	Paula E. Blakeborough
OJS	Olga J. Szymura
MLA	Mathew L. Amann
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
EW	Edwin William
ESH	Erin S. Herlihy
EEH	Eric E. Hess
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

1360397

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip: Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Wash Water AST
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)					Comments
01	Trip Blank	-	-	Lab	S	3	2	1				x								
02	WWA-2	7/10/13	1430	BM	S	6	2	3			1	x	x	x	x					
03	WWA-3		1440		S	6	2	3			1	x	x	x	x					
04	WWA-4		1500		S	6	2	3			1	x	x	x	x					
05	WWA-5		1510		S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BJ	7/10/13 1800	1 Fed-X	2	7.11.13 9:23	2 Paula
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

4°

07-11-13 10:43 IN

FedEx

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013	- Thursday	
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS, CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013	- Wednesday	
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON NJ
3:02 pm	Shipment information sent to FedEx	

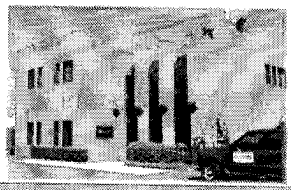
Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7-11-13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**
   On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
   Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
   Temperature °C by Temp blank 4 Temperature °C by Temp gun _____
5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Log in

   Permission to subcontract samples? Yes No
   (Walk-in clients only) if not already approved
   Client Signature: _____
8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	4
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	19	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 9
Bisulfate _____ # DI Water 10
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-11-13 10:43 IN

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC Compressor, Boiler, And Oil Pump Rooms
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0398

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0398

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC Compressor, Boiler, And Oil Pump Rooms

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
OPH-1	13G0398-01	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 6010C	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 07/29/2013: 8260 compound list revised.

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B077027-BS1	B077027-BSD1
C9-C18	80%	80%
C19-C36	94%	97%
C11-C22	92%	98%

VPH	B076643-BS1	B076643-BSD1
C9-C10	96%	96%

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

n-Decane, n-Nonane

B077027-BS1

MADEP-VPH-04-1.1

Qualifications:

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

13G0398-01[OPH-1]

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

Bromomethane

B076786-BS1, B076786-BSD1

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane, Chloromethane

13G0398-01[OPH-1], B076786-BLK1, B076786-BS1, B076786-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

13G0398-01[OPH-1], B076786-BLK1, B076786-BS1, B076786-BSD1

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

13G0398-01[OPH-1]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane, Chloromethane, Methylene Chloride, tert-Butyl Alcohol (TBA), Vinyl Acetate

13G0398-01[OPH-1], B076786-BLK1, B076786-BS1, B076786-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

Bromomethane

13G0398-01[OPH-1], B076786-BLK1, B076786-BS1, B076786-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076786-BS1, B076786-BSD1

SW-846 8270D

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Benzoic Acid, Hexachlorocyclopentadiene

B076882-BLK1, B076882-BS1, B076882-BSD1, 13G0398-01[OPH-1]

Elevated reporting limit due to high concentration of target compounds.

Analyte & Samples(s) Qualified:

13G0398-01[OPH-1]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

3/4-Methylphenol, 4-Nitrophenol, Benzoic Acid, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine, Pentachlorophenol

B076882-BLK1, B076882-BS1, B076882-BSD1, 13G0398-01[OPH-1]

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076882-BS1, B076882-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0398-01[OPH-1]

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, Di-n-octylphthalate

B076882-BLK1, 13G0398-01[OPH-1]

---

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.41	8.4	0.090	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.084	0.018	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Benzene	0.027	0.17	0.0084	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Bromobenzene	ND	0.17	0.017	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Bromochloromethane	ND	0.17	0.017	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Bromodichloromethane	ND	0.17	0.013	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Bromoform	ND	0.17	0.042	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Bromomethane	ND	0.33	0.063	mg/Kg dry	4	R-05, V-19	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
2-Butanone (MEK)	ND	3.3	0.068	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
tert-Butyl Alcohol (TBA)	ND	3.3	0.58	mg/Kg dry	4	V-05	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
n-Butylbenzene	2.2	0.17	0.0084	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
sec-Butylbenzene	0.87	0.17	0.0084	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
tert-Butylbenzene	0.072	0.17	0.0084	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.084	0.012	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Carbon Tetrachloride	ND	0.17	0.015	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Chlorobenzene	ND	0.17	0.0084	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Chlorodibromomethane	ND	0.084	0.020	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Chloroethane	ND	0.33	0.055	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Chloroform	ND	0.33	0.0067	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Chloromethane	ND	0.33	0.022	mg/Kg dry	4	L-04, V-05	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
2-Chlorotoluene	ND	0.17	0.0084	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
4-Chlorotoluene	ND	0.17	0.0084	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,2-Dibromoethane (EDB)	ND	0.084	0.023	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,2-Dichlorobenzene	0.082	0.17	0.010	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,3-Dichlorobenzene	ND	0.17	0.010	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,4-Dichlorobenzene	0.032	0.17	0.018	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.33	0.0067	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,1-Dichloroethane	ND	0.17	0.015	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,2-Dichloroethane	ND	0.17	0.015	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,1-Dichloroethylene	ND	0.17	0.017	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
cis-1,2-Dichloroethylene	0.020	0.17	0.0084	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
trans-1,2-Dichloroethylene	ND	0.17	0.012	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,2-Dichloropropane	ND	0.17	0.033	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,3-Dichloropropane	ND	0.084	0.013	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
2,2-Dichloropropane	ND	0.17	0.022	mg/Kg dry	4	L-04, V-05	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,1-Dichloropropene	ND	0.33	0.017	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
cis-1,3-Dichloropropene	ND	0.17	0.012	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
trans-1,3-Dichloropropene	ND	0.33	0.020	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Diisopropyl Ether (DIPE)	ND	0.084	0.0050	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Ethanol	ND	33	3.3	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Ethylbenzene	0.13	0.17	0.0084	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
2-Hexanone (MBK)	ND	1.7	0.11	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Isopropylbenzene (Cumene)	0.27	0.17	0.010	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
p-Isopropyltoluene (p-Cymene)	0.81	0.17	0.010	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Sample Flags: RL-11

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.17	0.0084	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Methylene Chloride	ND	0.84	0.37	mg/Kg dry	4	V-05	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
4-Methyl-2-pentanone (MIBK)	ND	1.7	0.037	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Naphthalene	12	0.33	0.035	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
n-Propylbenzene	0.48	0.17	0.0067	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Styrene	ND	0.17	0.010	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,1,1,2-Tetrachloroethane	ND	0.17	0.013	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,1,2,2-Tetrachloroethane	ND	0.084	0.030	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Tetrachloroethylene	0.30	0.17	0.023	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Toluene	0.099	0.17	0.0067	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,2,3-Trichlorobenzene	ND	0.84	0.037	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,2,4-Trichlorobenzene	ND	0.17	0.018	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,1,1-Trichloroethane	ND	0.17	0.0084	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,1,2-Trichloroethane	ND	0.17	0.013	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Trichloroethylene	0.058	0.17	0.020	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Trichlorofluoromethane (Freon 11)	ND	0.33	0.012	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,2,3-Trichloropropane	ND	0.33	0.035	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,2,4-Trimethylbenzene	3.8	0.17	0.010	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
1,3,5-Trimethylbenzene	1.7	0.17	0.010	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Vinyl Acetate	ND	3.3	2.1	mg/Kg dry	4	V-05	SW-846 8260B	7/16/13	7/20/13 13:58	LBD
Vinyl Chloride	ND	0.33	0.027	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
m+p Xylene	0.54	0.33	0.012	mg/Kg dry	4		SW-846 8260B	7/16/13	7/20/13 13:58	LBD
o-Xylene	0.11	0.17	0.0084	mg/Kg dry	4	J	SW-846 8260B	7/16/13	7/20/13 13:58	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	102	70-130		7/20/13 13:58
Toluene-d8	98.1	70-130		7/20/13 13:58
4-Bromofluorobenzene	103	70-130		7/20/13 13:58

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
1H-1,3,2-Benzodiazaborole, ...	11	mg/Kg dry	2181020	12.629	200	074663-81-3	SW-846 8260C	7/16/13	7/20/13 13:58	LBD
1H-Indene, 2,3-dihydro-4,7-...	4.9	mg/Kg dry	1003320	12.443	200	006682-71-9	SW-846 8260C	7/16/13	7/20/13 13:58	LBD
Benzene, (1-methyl-1-butenyl)-	6.2	mg/Kg dry	1247830	11.807	200	053172-84-2	SW-846 8260C	7/16/13	7/20/13 13:58	LBD
Benzene, (2-methyl-1-butenyl)-	5.7	mg/Kg dry	1154010	12.239	200	056253-64-6	SW-846 8260C	7/16/13	7/20/13 13:58	LBD
Benzene, 1,2,3,4-tetramethyl-	6.0	mg/Kg dry	1218230	11.012	200	000488-23-3	SW-846 8260C	7/16/13	7/20/13 13:58	LBD
Naphthalene, 1,2,3,4-tetrah... (01)	5.9	mg/Kg dry	1204570	11.584	200	000119-64-2	SW-846 8260C	7/16/13	7/20/13 13:58	LBD
Undecane	11	mg/Kg dry	2295360	10.354	200	001120-21-4	SW-846 8260C	7/16/13	7/20/13 13:58	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Sample Flags: RL-11

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.75	0.38	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Acenaphthylene	ND	0.75	0.36	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Anthracene	ND	0.75	0.46	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Benzo(a)anthracene	0.53	0.75	0.34	mg/Kg dry	4	J	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Benzo(a)pyrene	ND	0.75	0.27	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Benzo(b)fluoranthene	ND	0.75	0.66	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Benzo(g,h,i)perylene	ND	0.75	0.61	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Benzo(k)fluoranthene	ND	0.75	0.68	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Benzoic Acid	ND	4.4	4.1	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Bis(2-chloroethoxy)methane	ND	1.5	0.55	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Bis(2-chloroethyl)ether	ND	1.5	0.60	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Bis(2-chloroisopropyl)ether	ND	1.5	0.61	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Bis(2-Ethylhexyl)phthalate	1.0	1.5	0.34	mg/Kg dry	4	J	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
4-Bromophenylphenylether	ND	1.5	0.37	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Butylbenzylphthalate	ND	1.5	0.60	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
4-Chloroaniline	ND	2.9	0.73	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
4-Chloro-3-methylphenol	ND	2.9	0.62	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
2-Chloronaphthalene	ND	1.5	0.47	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
2-Chlorophenol	ND	1.5	0.45	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
4-Chlorophenylphenylether	ND	1.5	0.51	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Chrysene	0.65	0.75	0.49	mg/Kg dry	4	J	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Dibenz(a,h)anthracene	ND	0.75	0.42	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Dibenzofuran	ND	1.5	0.35	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Di-n-butylphthalate	ND	1.5	0.64	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
1,2-Dichlorobenzene	ND	1.5	0.30	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
1,3-Dichlorobenzene	ND	1.5	0.35	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
1,4-Dichlorobenzene	ND	1.5	0.37	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
3,3-Dichlorobenzidine	ND	0.75	0.69	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
2,4-Dichlorophenol	ND	1.5	0.46	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Diethylphthalate	ND	1.5	0.51	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
2,4-Dimethylphenol	ND	1.5	0.43	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Dimethylphthalate	ND	1.5	0.58	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
4,6-Dinitro-2-methylphenol	ND	1.5	0.62	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
2,4-Dinitrophenol	ND	2.9	1.5	mg/Kg dry	4	V-19	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Di-n-octylphthalate	ND	3.0	2.1	mg/Kg dry	4	V-20	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	1.5	0.72	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Fluoranthene	ND	0.75	0.68	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Fluorene	5.1	0.75	0.58	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Hexachlorobenzene	ND	1.5	0.69	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Hexachlorobutadiene	ND	1.5	0.49	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Hexachlorocyclopentadiene	ND	1.5	0.99	mg/Kg dry	4	L-04, V-05	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Hexachloroethane	ND	1.5	0.42	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Indeno(1,2,3-cd)pyrene	ND	0.75	0.49	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Isophorone	ND	1.5	0.43	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Sample Flags: RL-11

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	25	1.9	0.72	mg/Kg dry	10		SW-846 8270D	7/17/13	7/22/13 11:43	CMR
2-Methylnaphthalene	38	1.9	0.99	mg/Kg dry	10		SW-846 8270D	7/17/13	7/22/13 11:43	CMR
2-Methylphenol	ND	1.5	0.47	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
3/4-Methylphenol	ND	1.5	0.84	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Naphthalene	8.9	0.75	0.33	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Nitrobenzene	ND	1.5	0.42	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
2-Nitrophenol	ND	1.5	0.45	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
4-Nitrophenol	ND	2.9	2.6	mg/Kg dry	4	V-05	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
N-Nitrosodiphenylamine	ND	1.5	0.69	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
N-Nitrosodi-n-propylamine	ND	1.5	0.48	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Pentachlorophenol	ND	1.5	0.59	mg/Kg dry	4	V-05	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Phenanthrene	12	0.75	0.40	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Phenol	ND	1.5	0.40	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Pyrene	1.6	0.75	0.52	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
1,2,4-Trichlorobenzene	ND	1.5	0.36	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR
2,4,6-Trichlorophenol	ND	1.5	0.97	mg/Kg dry	4		SW-846 8270D	7/17/13	7/22/13 10:12	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	42.5	30-130		7/22/13 10:12
Phenol-d6	53.0	30-130		7/22/13 10:12
Nitrobenzene-d5	66.8	30-130		7/22/13 10:12
2-Fluorobiphenyl	62.8	30-130		7/22/13 10:12
2,4,6-Tribromophenol	56.7	30-130		7/22/13 10:12
p-Terphenyl-d14	68.4	30-130		7/22/13 10:12

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Decane	6.5	mg/Kg dry	458853	4.125	4	000124-18-5	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
eicosane	31	mg/Kg dry	4402190	11.515	4	000112-95-8	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Eicosane, 10-methyl-	14	mg/Kg dry	1341790	13.729	4	054833-23-7	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Heneicosane	22	mg/Kg dry	3123330	12.279	4	000629-94-7	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Heptadecane	78	mg/Kg dry	11136900	9.078	4	000629-78-7	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Hexadecane, 2,6,10,14-tetra...	19	mg/Kg dry	2791330	9.95	4	000638-36-8	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Nonadecane	40	mg/Kg dry	5723790	10.723	4	000629-92-5	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Octadecane	46	mg/Kg dry	6577750	9.907	4	000593-45-3	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Pentadecane	5.9	mg/Kg dry	12491000	7.413	4	000629-62-9	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Phenanthrene, 2-methyl-	7.6	mg/Kg dry	1096880	10.819	4	002531-84-2	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Tetracosane	9.8	mg/Kg dry	952134	14.412	4	000646-31-1	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Tetradecane	6.9	mg/Kg dry	14634100	6.631	4	000629-59-4	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Tridecane	28	mg/Kg dry	11636100	5.911	4	000629-50-5	SW-846 8270D	7/17/13	7/22/13 10:12	CMR
Undecane	42	mg/Kg dry	2979770	4.709	4	001120-21-4	SW-846 8270D	7/17/13	7/22/13 10:12	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	2000	220	mg/Kg dry	20		MADEP-EPH-04-1.1	7/18/13	7/22/13 11:41	SCS
C19-C36 Aliphatics	1100	220	mg/Kg dry	20		MADEP-EPH-04-1.1	7/18/13	7/22/13 11:41	SCS
Unadjusted C11-C22 Aromatics	1300	110	mg/Kg dry	10		MADEP-EPH-04-1.1	7/18/13	7/22/13 11:41	SCS
C11-C22 Aromatics	1200	110	mg/Kg dry	10		MADEP-EPH-04-1.1	7/18/13	7/22/13 11:41	SCS
Acenaphthene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Acenaphthylene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Anthracene	3.6	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Benzo(a)anthracene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Benzo(a)pyrene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Chrysene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Fluoranthene	2.1	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Fluorene	9.4	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
2-Methylnaphthalene	32	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Naphthalene	12	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Phenanthrene	12	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS
Pyrene	1.0	0.22	mg/Kg dry	2		MADEP-EPH-04-1.1	7/18/13	7/19/13 15:24	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	67.9	40-140		7/19/13 15:24
o-Terphenyl (OTP)	131	40-140		7/19/13 15:24
2-Bromonaphthalene	101	40-140		7/19/13 15:24
2-Fluorobiphenyl	91.9	40-140		7/19/13 15:24

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Sample Flags: RL-11

Soil/Methanol Preservation Ratio: 0.99

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	120	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
C5-C8 Aliphatics	ND	120	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
Unadjusted C9-C12 Aliphatics	560	120	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
C9-C12 Aliphatics	ND	120	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
C9-C10 Aromatics	450	120	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
Benzene	ND	0.62	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
Ethylbenzene	ND	0.62	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.62	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
Naphthalene	17	3.1	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
Toluene	ND	0.62	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
m+p Xylene	ND	1.2	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH
o-Xylene	ND	0.62	mg/Kg dry	10		MADEP-VPH-04-1.1	7/12/13	7/13/13 3:32	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	98.7	70-130		7/13/13 3:32
2,5-Dibromotoluene (PID)	91.9	70-130		7/13/13 3:32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	18	0.56	0.14	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:13	OP
Lead	2.4	0.84	0.39	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:13	OP

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Compressor, Boiler, A Sample Description: Work Order: 13G0398

Date Received: 7/10/2013

Field Sample #: OPH-1 Sampled: 7/10/2013 12:00

Sample ID: 13G0398-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.6		% Wt	1		SM 2540G	7/17/13	7/18/13 15:55	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0398-01RE1 [OPH-1]	B077027	20.1	2.00	07/18/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0398-01 [OPH-1]	B076643	14.9	16.6	07/12/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0398-01 [OPH-1]	B076932	07/17/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0398-01 [OPH-1]	B076506	1.00	50.0	07/11/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
13G0398-01 [OPH-1]	B076786	15.5	11.6	0.25	50	07/16/13

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0398-01 [OPH-1]	B076882	30.3	1.00	07/17/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076786 - SW-846 5035										
Blank (B076786-BLK1)				Prepared: 07/16/13 Analyzed: 07/20/13						
Acetone	0.10	2.5	mg/Kg wet							J
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							R-05, V-19
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	1.0	mg/Kg wet							V-05
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	0.010	0.10	mg/Kg wet							J
Chloromethane	ND	0.10	mg/Kg wet							L-04, V-05
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							L-04, V-05
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
Ethanol	ND	10	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							V-05
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076786 - SW-846 5035												
Blank (B076786-BLK1)				Prepared: 07/16/13 Analyzed: 07/20/13								
Tetrachloroethylene	ND	0.050	mg/Kg wet									
Toluene	ND	0.050	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet									
Trichloroethylene	ND	0.050	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet									
Vinyl Acetate	ND	1.0	mg/Kg wet								V-05	
Vinyl Chloride	ND	0.10	mg/Kg wet									
m+p Xylene	ND	0.10	mg/Kg wet									
o-Xylene	ND	0.050	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0262*		mg/Kg wet	0.0250		105		70-130				
Surrogate: Toluene-d8	*0.0244*		mg/Kg wet	0.0250		97.4		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0248*		mg/Kg wet	0.0250		99.2		70-130				
LCS (B076786-BS1)				Prepared: 07/16/13 Analyzed: 07/20/13								
Acetone	0.0924	0.057	mg/Kg wet	0.113		81.5		70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0116	0.00057	mg/Kg wet	0.0113		103		70-130		25		
Benzene	0.0111	0.0011	mg/Kg wet	0.0113		97.6		70-130		25		
Bromobenzene	0.0126	0.0011	mg/Kg wet	0.0113		111		70-130		25		
Bromochloromethane	0.0128	0.0011	mg/Kg wet	0.0113		113		70-130		25		
Bromodichloromethane	0.0125	0.0011	mg/Kg wet	0.0113		110		70-130		25		
Bromoform	0.0107	0.0011	mg/Kg wet	0.0113		94.1		70-130		25		
Bromomethane	0.0215	0.0023	mg/Kg wet	0.0113		**189**	*	40-130		25	L-02, R-05, V-19, V-20	†
2-Butanone (MEK)	0.0892	0.023	mg/Kg wet	0.113		78.8		70-160		25		†
tert-Butyl Alcohol (TBA)	0.0711	0.023	mg/Kg wet	0.113		62.7		40-130		25	V-05	†
n-Butylbenzene	0.0121	0.0011	mg/Kg wet	0.0113		106		70-130		25		
sec-Butylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		108		70-130		25		
tert-Butylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108		70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0117	0.00057	mg/Kg wet	0.0113		104		70-130		25		
Carbon Tetrachloride	0.0126	0.0011	mg/Kg wet	0.0113		111		70-130		25		
Chlorobenzene	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130		25		
Chlorodibromomethane	0.0113	0.00057	mg/Kg wet	0.0113		99.9		70-130		25		
Chloroethane	0.0123	0.0023	mg/Kg wet	0.0113		109		70-130		25		
Chloroform	0.0132	0.0023	mg/Kg wet	0.0113		117		70-130		25		
Chloromethane	0.00617	0.0023	mg/Kg wet	0.0113		**54.4**	*	70-130		25	L-04, V-05	
2-Chlorotoluene	0.0130	0.0011	mg/Kg wet	0.0113		115		70-130		25		
4-Chlorotoluene	0.0136	0.0011	mg/Kg wet	0.0113		120		70-130		25		
1,2-Dibromoethane (EDB)	0.0132	0.00057	mg/Kg wet	0.0113		116		70-130		25		
1,2-Dichlorobenzene	0.0123	0.0011	mg/Kg wet	0.0113		108		70-130		25		
1,3-Dichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130		25		
1,4-Dichlorobenzene	0.0124	0.0011	mg/Kg wet	0.0113		109		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.00708	0.0023	mg/Kg wet	0.0113		62.5		40-160		25		†
1,1-Dichloroethane	0.0122	0.0011	mg/Kg wet	0.0113		108		70-130		25		
1,2-Dichloroethane	0.0143	0.0011	mg/Kg wet	0.0113		126		70-130		25		
1,1-Dichloroethylene	0.0113	0.0011	mg/Kg wet	0.0113		99.8		70-130		25		
cis-1,2-Dichloroethylene	0.0115	0.0011	mg/Kg wet	0.0113		102		70-130		25		
trans-1,2-Dichloroethylene	0.0133	0.0011	mg/Kg wet	0.0113		117		70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076786 - SW-846 5035													
LCS (B076786-BS1)				Prepared: 07/16/13 Analyzed: 07/20/13									
1,2-Dichloropropane	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130			25		
1,3-Dichloropropane	0.0126	0.00057	mg/Kg wet	0.0113		112		70-130			25		
2,2-Dichloropropane	0.00683	0.0011	mg/Kg wet	0.0113		**60.3**	*	70-130			25	L-04, V-05	
1,1-Dichloropropene	0.0124	0.0023	mg/Kg wet	0.0113		109		70-130			25		
cis-1,3-Dichloropropene	0.0103	0.00057	mg/Kg wet	0.0113		90.9		70-130			25		
trans-1,3-Dichloropropene	0.0106	0.00057	mg/Kg wet	0.0113		93.7		70-130			25		
Diisopropyl Ether (DIPE)	0.0116	0.00057	mg/Kg wet	0.0113		102		70-130			25		
Ethylbenzene	0.0128	0.0011	mg/Kg wet	0.0113		112		70-130			25		
2-Hexanone (MBK)	0.0975	0.011	mg/Kg wet	0.113		86.1		70-160			25		†
Isopropylbenzene (Cumene)	0.0131	0.0011	mg/Kg wet	0.0113		116		70-130			25		
p-Isopropyltoluene (p-Cymene)	0.0123	0.0011	mg/Kg wet	0.0113		109		70-130			25		
Methyl tert-Butyl Ether (MTBE)	0.0141	0.0011	mg/Kg wet	0.0113		125		70-130			25		
Methylene Chloride	0.00638	0.0057	mg/Kg wet	0.0113		56.3		40-160			25	V-05	†
4-Methyl-2-pentanone (MIBK)	0.101	0.011	mg/Kg wet	0.113		89.3		70-160			25		†
Naphthalene	0.00873	0.0023	mg/Kg wet	0.0113		77.0		40-130			25		†
n-Propylbenzene	0.0131	0.0011	mg/Kg wet	0.0113		115		70-130			25		
Styrene	0.00869	0.0011	mg/Kg wet	0.0113		76.7		70-130			25		
1,1,1,2-Tetrachloroethane	0.0131	0.0011	mg/Kg wet	0.0113		116		70-130			25		
1,1,2,2-Tetrachloroethane	0.0102	0.00057	mg/Kg wet	0.0113		90.0		70-130			25		
Tetrachloroethylene	0.0129	0.0011	mg/Kg wet	0.0113		114		70-130			25		
Toluene	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130			25		
1,2,3-Trichlorobenzene	0.0113	0.0057	mg/Kg wet	0.0113		100		70-130			25		
1,2,4-Trichlorobenzene	0.0100	0.0011	mg/Kg wet	0.0113		88.2		70-130			25		
1,1,1-Trichloroethane	0.0125	0.0011	mg/Kg wet	0.0113		110		70-130			25		
1,1,2-Trichloroethane	0.0128	0.0011	mg/Kg wet	0.0113		113		70-130			25		
Trichloroethylene	0.0141	0.0011	mg/Kg wet	0.0113		124		70-130			25		
Trichlorofluoromethane (Freon 11)	0.0134	0.0023	mg/Kg wet	0.0113		118		70-130			25		
1,2,3-Trichloropropane	0.0125	0.0023	mg/Kg wet	0.0113		110		70-130			25		
1,2,4-Trimethylbenzene	0.0128	0.0011	mg/Kg wet	0.0113		113		70-130			25		
1,3,5-Trimethylbenzene	0.0131	0.0011	mg/Kg wet	0.0113		116		70-130			25		
Vinyl Chloride	0.00758	0.0023	mg/Kg wet	0.0113		66.9		40-130			25		†
m+p Xylene	0.0263	0.0023	mg/Kg wet	0.0227		116		70-130			25		
o-Xylene	0.0132	0.0011	mg/Kg wet	0.0113		116		70-130			25		
Surrogate: 1,2-Dichloroethane-d4	*0.0299*		mg/Kg wet	0.0283		106		70-130					
Surrogate: Toluene-d8	*0.0280*		mg/Kg wet	0.0283		98.8		70-130					
Surrogate: 4-Bromofluorobenzene	*0.0290*		mg/Kg wet	0.0283		102		70-130					
LCS Dup (B076786-BSD1)				Prepared: 07/16/13 Analyzed: 07/20/13									
Acetone	0.0913	0.057	mg/Kg wet	0.113		80.6		70-160	1.18		25		†
tert-Amyl Methyl Ether (TAME)	0.0111	0.00057	mg/Kg wet	0.0113		97.9		70-130	4.79		25		
Benzene	0.0107	0.0011	mg/Kg wet	0.0113		94.2		70-130	3.55		25		
Bromobenzene	0.0122	0.0011	mg/Kg wet	0.0113		108		70-130	3.02		25		
Bromochloromethane	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130	0.712		25		
Bromodichloromethane	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130	5.11		25		
Bromoform	0.0102	0.0011	mg/Kg wet	0.0113		90.1		70-130	4.34		25		
Bromomethane	0.0297	0.0023	mg/Kg wet	0.0113		**262**	*	40-130	**32.2**	*	25	L-02, R-05, V-19, V-20	†
2-Butanone (MEK)	0.0858	0.023	mg/Kg wet	0.113		75.7		70-160	3.90		25		†
tert-Butyl Alcohol (TBA)	0.0698	0.023	mg/Kg wet	0.113		61.6		40-130	1.80		25	V-05	†
n-Butylbenzene	0.0121	0.0011	mg/Kg wet	0.0113		107		70-130	0.188		25		
sec-Butylbenzene	0.0122	0.0011	mg/Kg wet	0.0113		107		70-130	0.557		25		
tert-Butylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		109		70-160	0.185		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0114	0.00057	mg/Kg wet	0.0113		101		70-130	2.64		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076786 - SW-846 5035												
LCS Dup (B076786-BSD1)				Prepared: 07/16/13 Analyzed: 07/20/13								
Carbon Tetrachloride	0.0122	0.0011	mg/Kg wet	0.0113		108		70-130	2.93	25		
Chlorobenzene	0.0122	0.0011	mg/Kg wet	0.0113		107		70-130	4.38	25		
Chlorodibromomethane	0.0110	0.00057	mg/Kg wet	0.0113		96.8		70-130	3.15	25		
Chloroethane	0.0121	0.0023	mg/Kg wet	0.0113		107		70-130	1.86	25		
Chloroform	0.0128	0.0023	mg/Kg wet	0.0113		113		70-130	3.40	25		
Chloromethane	0.00602	0.0023	mg/Kg wet	0.0113		**53.1**	*	70-130	2.42	25	V-05, L-04	
2-Chlorotoluene	0.0125	0.0011	mg/Kg wet	0.0113		110		70-130	3.73	25		
4-Chlorotoluene	0.0130	0.0011	mg/Kg wet	0.0113		115		70-130	4.09	25		
1,2-Dibromoethane (EDB)	0.0127	0.00057	mg/Kg wet	0.0113		112		70-130	3.59	25		
1,2-Dichlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130	2.71	25		
1,3-Dichlorobenzene	0.0120	0.0011	mg/Kg wet	0.0113		106		70-130	1.22	25		
1,4-Dichlorobenzene	0.0121	0.0011	mg/Kg wet	0.0113		106		70-130	2.59	25		
Dichlorodifluoromethane (Freon 12)	0.00730	0.0023	mg/Kg wet	0.0113		64.4		40-160	2.99	25		†
1,1-Dichloroethane	0.0118	0.0011	mg/Kg wet	0.0113		104		70-130	3.12	25		
1,2-Dichloroethane	0.0139	0.0011	mg/Kg wet	0.0113		123		70-130	2.49	25		
1,1-Dichloroethylene	0.0112	0.0011	mg/Kg wet	0.0113		99.0		70-130	0.805	25		
cis-1,2-Dichloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		98.2		70-130	3.60	25		
trans-1,2-Dichloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		97.7		70-130	18.2	25		
1,2-Dichloropropane	0.0116	0.0011	mg/Kg wet	0.0113		102		70-130	4.21	25		
1,3-Dichloropropane	0.0124	0.00057	mg/Kg wet	0.0113		109		70-130	2.08	25		
2,2-Dichloropropane	0.00649	0.0011	mg/Kg wet	0.0113		**57.3**	*	70-130	5.10	25	L-04, V-05	
1,1-Dichloropropene	0.0121	0.0023	mg/Kg wet	0.0113		106		70-130	2.51	25		
cis-1,3-Dichloropropene	0.00994	0.00057	mg/Kg wet	0.0113		87.7		70-130	3.58	25		
trans-1,3-Dichloropropene	0.0102	0.00057	mg/Kg wet	0.0113		90.1		70-130	3.92	25		
Diisopropyl Ether (DIPE)	0.0111	0.00057	mg/Kg wet	0.0113		97.8		70-130	4.50	25		
Ethylbenzene	0.0123	0.0011	mg/Kg wet	0.0113		108		70-130	3.71	25		
2-Hexanone (MBK)	0.0953	0.011	mg/Kg wet	0.113		84.1		70-160	2.32	25		†
Isopropylbenzene (Cumene)	0.0126	0.0011	mg/Kg wet	0.0113		111		70-130	4.06	25		
p-Isopropyltoluene (p-Cymene)	0.0123	0.0011	mg/Kg wet	0.0113		108		70-130	0.460	25		
Methyl tert-Butyl Ether (MTBE)	0.0119	0.0011	mg/Kg wet	0.0113		105		70-130	17.2	25		
Methylene Chloride	0.00638	0.0057	mg/Kg wet	0.0113		56.3		40-160	0.00	25	V-05	†
4-Methyl-2-pentanone (MIBK)	0.0997	0.011	mg/Kg wet	0.113		88.0		70-160	1.49	25		†
Naphthalene	0.00944	0.0023	mg/Kg wet	0.0113		83.3		40-130	7.86	25		†
n-Propylbenzene	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130	3.08	25		
Styrene	0.00945	0.0011	mg/Kg wet	0.0113		83.4		70-130	8.37	25		
1,1,1,2-Tetrachloroethane	0.0124	0.0011	mg/Kg wet	0.0113		109		70-130	6.22	25		
1,1,2,2-Tetrachloroethane	0.00995	0.00057	mg/Kg wet	0.0113		87.8		70-130	2.47	25		
Tetrachloroethylene	0.0129	0.0011	mg/Kg wet	0.0113		114		70-130	0.0877	25		
Toluene	0.0117	0.0011	mg/Kg wet	0.0113		104		70-130	3.14	25		
1,2,3-Trichlorobenzene	0.0116	0.0057	mg/Kg wet	0.0113		102		70-130	2.18	25		
1,2,4-Trichlorobenzene	0.0104	0.0011	mg/Kg wet	0.0113		91.9		70-130	4.11	25		
1,1,1-Trichloroethane	0.0125	0.0011	mg/Kg wet	0.0113		110		70-130	0.181	25		
1,1,2-Trichloroethane	0.0124	0.0011	mg/Kg wet	0.0113		110		70-130	2.70	25		
Trichloroethylene	0.0135	0.0011	mg/Kg wet	0.0113		119		70-130	3.94	25		
Trichlorofluoromethane (Freon 11)	0.0137	0.0023	mg/Kg wet	0.0113		121		70-130	2.35	25		
1,2,3-Trichloropropane	0.0123	0.0023	mg/Kg wet	0.0113		108		70-130	1.83	25		
1,2,4-Trimethylbenzene	0.0124	0.0011	mg/Kg wet	0.0113		109		70-130	3.16	25		
1,3,5-Trimethylbenzene	0.0127	0.0011	mg/Kg wet	0.0113		112		70-130	3.43	25		
Vinyl Chloride	0.00751	0.0023	mg/Kg wet	0.0113		66.3		40-130	0.901	25		†
m+p Xylene	0.0254	0.0023	mg/Kg wet	0.0227		112		70-130	3.73	25		
o-Xylene	0.0126	0.0011	mg/Kg wet	0.0113		112		70-130	4.04	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0295*		mg/Kg wet	0.0283		104		70-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076786 - SW-846 5035										
LCS Dup (B076786-BSD1)				Prepared: 07/16/13 Analyzed: 07/20/13						
Surrogate: Toluene-d8	*0.0281*		mg/Kg wet	0.0283		99.1	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0288*		mg/Kg wet	0.0283		102	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076786 - SW-846 5035										
Blank (B076786-BLK1)				Prepared: 07/16/13 Analyzed: 07/20/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076882 - SW-846 3546										
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05, L-04
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.66*		mg/Kg wet	6.67		54.9		30-130				
Surrogate: Phenol-d6	*3.74*		mg/Kg wet	6.67		56.1		30-130				
Surrogate: Nitrobenzene-d5	*2.00*		mg/Kg wet	3.33		59.9		30-130				
Surrogate: 2-Fluorobiphenyl	*1.92*		mg/Kg wet	3.33		57.5		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.56*		mg/Kg wet	6.67		68.5		30-130				
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.6		30-130				
LCS (B076882-BS1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Acenaphthene	0.995	0.17	mg/Kg wet	1.67		59.7		40-140		30		
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3		40-140		30		
Anthracene	1.03	0.17	mg/Kg wet	1.67		61.7		40-140		30		
Benzo(a)anthracene	1.10	0.17	mg/Kg wet	1.67		65.9		40-140		30		
Benzo(a)pyrene	1.03	0.17	mg/Kg wet	1.67		61.7		40-140		30		
Benzo(b)fluoranthene	0.908	0.17	mg/Kg wet	1.67		54.5		40-140		30		
Benzo(g,h,i)perylene	1.18	0.17	mg/Kg wet	1.67		70.5		40-140		30		
Benzo(k)fluoranthene	0.945	0.17	mg/Kg wet	1.67		56.7		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	0.962	0.34	mg/Kg wet	1.67		57.7		40-140		30		
Bis(2-chloroethyl)ether	0.927	0.34	mg/Kg wet	1.67		55.6		40-140		30		
Bis(2-chloroisopropyl)ether	0.777	0.34	mg/Kg wet	1.67		46.6		40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	0.941	0.34	mg/Kg wet	1.67		56.5		40-140		30		
4-Bromophenylphenylether	1.15	0.34	mg/Kg wet	1.67		68.9		40-140		30		
Butylbenzylphthalate	1.05	0.34	mg/Kg wet	1.67		62.7		40-140		30		
4-Chloroaniline	0.739	0.66	mg/Kg wet	1.67		44.4		10-140		30		†
4-Chloro-3-methylphenol	0.969	0.66	mg/Kg wet	1.67		58.1		30-130		30		
2-Chloronaphthalene	0.926	0.34	mg/Kg wet	1.67		55.6		40-140		30		
2-Chlorophenol	0.897	0.34	mg/Kg wet	1.67		53.8		30-130		30		
4-Chlorophenylphenylether	0.922	0.34	mg/Kg wet	1.67		55.3		40-140		30		
Chrysene	1.07	0.17	mg/Kg wet	1.67		64.0		40-140		30		
Dibenz(a,h)anthracene	1.19	0.17	mg/Kg wet	1.67		71.1		40-140		30		
Dibenzofuran	0.994	0.34	mg/Kg wet	1.67		59.7		40-140		30		
Di-n-butylphthalate	0.987	0.34	mg/Kg wet	1.67		59.2		40-140		30		
1,2-Dichlorobenzene	0.791	0.34	mg/Kg wet	1.67		47.5		40-140		30		
1,3-Dichlorobenzene	0.781	0.34	mg/Kg wet	1.67		46.8		40-140		30		
1,4-Dichlorobenzene	0.781	0.34	mg/Kg wet	1.67		46.9		40-140		30		
3,3-Dichlorobenzidine	0.948	0.17	mg/Kg wet	1.67		56.9		20-140		50		†
2,4-Dichlorophenol	1.04	0.34	mg/Kg wet	1.67		62.2		30-130		30		
Diethylphthalate	0.945	0.34	mg/Kg wet	1.67		56.7		40-140		30		
2,4-Dimethylphenol	1.04	0.34	mg/Kg wet	1.67		62.6		30-130		30		
Dimethylphthalate	0.993	0.34	mg/Kg wet	1.67		59.6		40-140		30		
4,6-Dinitro-2-methylphenol	1.17	0.34	mg/Kg wet	1.67		70.0		30-130		30		
2,4-Dinitrophenol	0.958	0.66	mg/Kg wet	1.67		57.5		30-130		30	V-06	
Di-n-octylphthalate	0.827	0.67	mg/Kg wet	1.67		49.6		40-140		30		
1,2-Diphenylhydrazine (as Azobenzene)	0.990	0.34	mg/Kg wet	1.67		59.4		40-140		30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
LCS (B076882-BS1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.2		40-140		30		
Fluorene	0.920	0.17	mg/Kg wet	1.67		55.2		40-140		30		
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5		40-140		30		
Hexachlorobutadiene	0.881	0.34	mg/Kg wet	1.67		52.9		40-140		30		
Hexachlorocyclopentadiene	0.611	0.34	mg/Kg wet	1.67		**36.6**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.776	0.34	mg/Kg wet	1.67		46.5		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2		40-140		30		
Isophorone	0.944	0.34	mg/Kg wet	1.67		56.6		40-140		30		
1-Methylnaphthalene	0.890	0.17	mg/Kg wet	1.67		53.4		40-140		30		
2-Methylnaphthalene	0.854	0.17	mg/Kg wet	1.67		51.3		40-140		30		
2-Methylphenol	0.930	0.34	mg/Kg wet	1.67		55.8		30-130		30		
3/4-Methylphenol	0.936	0.34	mg/Kg wet	1.67		56.2		30-130		30	V-05	
Naphthalene	0.905	0.17	mg/Kg wet	1.67		54.3		40-140		30		
Nitrobenzene	0.922	0.34	mg/Kg wet	1.67		55.3		40-140		30		
2-Nitrophenol	1.11	0.34	mg/Kg wet	1.67		66.6		30-130		30		
4-Nitrophenol	0.975	0.66	mg/Kg wet	1.67		58.5		30-130		50		
N-Nitrosodiphenylamine	1.37	0.34	mg/Kg wet	1.67		82.4		40-140		30		
N-Nitrosodi-n-propylamine	0.749	0.34	mg/Kg wet	1.67		44.9		40-140		30	V-05	
Pentachlorophenol	0.743	0.34	mg/Kg wet	1.67		44.6		30-130		30		
Phenanthrene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140		30		
Phenol	0.829	0.34	mg/Kg wet	1.67		49.8		30-130		30		
Pyrene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140		30		
1,2,4-Trichlorobenzene	0.949	0.34	mg/Kg wet	1.67		57.0		40-140		30		
2,4,6-Trichlorophenol	1.05	0.34	mg/Kg wet	1.67		62.7		30-130		30		
Surrogate: 2-Fluorophenol	*3.62*		mg/Kg wet	6.67		54.3		30-130				
Surrogate: Phenol-d6	*3.64*		mg/Kg wet	6.67		54.7		30-130				
Surrogate: Nitrobenzene-d5	*1.97*		mg/Kg wet	3.33		59.2		30-130				
Surrogate: 2-Fluorobiphenyl	*1.96*		mg/Kg wet	3.33		58.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.09*		mg/Kg wet	6.67		76.3		30-130				
Surrogate: p-Terphenyl-d14	*2.39*		mg/Kg wet	3.33		71.7		30-130				
LCS Dup (B076882-BSD1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140	14.2	30		
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.8		40-140	14.3	30		
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.9		40-140	16.6	30		
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		73.7		40-140	11.1	30		
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140	15.3	30		
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		60.9		40-140	11.2	30		
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.4		40-140	9.01	30		
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.0		40-140	20.9	30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.14	0.34	mg/Kg wet	1.67		68.7		40-140	17.3	30		
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		64.7		40-140	15.0	30		
Bis(2-chloroisopropyl)ether	0.913	0.34	mg/Kg wet	1.67		54.8		40-140	16.2	30	V-05	
Bis(2-Ethylhexyl)phthalate	1.03	0.34	mg/Kg wet	1.67		61.8		40-140	9.00	30		
4-Bromophenylphenylether	1.35	0.34	mg/Kg wet	1.67		81.2		40-140	16.4	30		
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.8		40-140	14.8	30		
4-Chloroaniline	0.673	0.66	mg/Kg wet	1.67		40.4		10-140	9.39	30		†
4-Chloro-3-methylphenol	1.14	0.66	mg/Kg wet	1.67		68.5		30-130	16.5	30		
2-Chloronaphthalene	1.14	0.34	mg/Kg wet	1.67		68.3		40-140	20.5	30		
2-Chlorophenol	1.04	0.34	mg/Kg wet	1.67		62.7		30-130	15.2	30		
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		63.0		40-140	13.0	30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
LCS Dup (B076882-BSD1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.5		40-140	13.7	30		
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.2		40-140	2.79	30		
Dibenzofuran	1.12	0.34	mg/Kg wet	1.67		67.5		40-140	12.3	30		
Di-n-butylphthalate	1.21	0.34	mg/Kg wet	1.67		72.4		40-140	20.0	30		
1,2-Dichlorobenzene	0.921	0.34	mg/Kg wet	1.67		55.2		40-140	15.2	30		
1,3-Dichlorobenzene	0.905	0.34	mg/Kg wet	1.67		54.3		40-140	14.7	30		
1,4-Dichlorobenzene	0.904	0.34	mg/Kg wet	1.67		54.2		40-140	14.6	30		
3,3-Dichlorobenzidine	1.01	0.17	mg/Kg wet	1.67		60.7		20-140	6.53	50		† ‡
2,4-Dichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.1		30-130	16.2	30		
Diethylphthalate	1.16	0.34	mg/Kg wet	1.67		69.8		40-140	20.7	30		
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.3		30-130	15.7	30		
Dimethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.7		40-140	19.9	30		
4,6-Dinitro-2-methylphenol	1.30	0.34	mg/Kg wet	1.67		77.8		30-130	10.6	30		
2,4-Dinitrophenol	1.01	0.66	mg/Kg wet	1.67		60.7		30-130	5.45	30	V-06	
Di-n-octylphthalate	0.969	0.67	mg/Kg wet	1.67		58.1		40-140	15.7	30		
1,2-Diphenylhydrazine (as Azobenzene)	1.29	0.34	mg/Kg wet	1.67		77.5		40-140	26.5	30		
Fluoranthene	1.30	0.17	mg/Kg wet	1.67		78.0		40-140	17.9	30		
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.3		40-140	10.5	30		
Hexachlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.4		40-140	20.1	30		
Hexachlorobutadiene	1.06	0.34	mg/Kg wet	1.67		63.4		40-140	18.2	30		
Hexachlorocyclopentadiene	0.566	0.34	mg/Kg wet	1.67		**34.0**	*	40-140	7.53	30	L-04, V-05	
Hexachloroethane	0.892	0.34	mg/Kg wet	1.67		53.5		40-140	14.0	30	V-05	
Indeno(1,2,3-cd)pyrene	1.14	0.17	mg/Kg wet	1.67		68.3		40-140	4.07	30		
Isophorone	1.13	0.34	mg/Kg wet	1.67		67.8		40-140	17.9	30		
1-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		62.9		40-140	16.4	30		
2-Methylnaphthalene	0.997	0.17	mg/Kg wet	1.67		59.8		40-140	15.4	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		63.9		30-130	13.6	30		
3/4-Methylphenol	1.06	0.34	mg/Kg wet	1.67		63.8		30-130	12.7	30	V-05	
Naphthalene	1.04	0.17	mg/Kg wet	1.67		62.2		40-140	13.5	30		
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.5		40-140	10.6	30		
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.3		30-130	10.9	30		
4-Nitrophenol	1.14	0.66	mg/Kg wet	1.67		68.3		30-130	15.5	50		‡
N-Nitrosodiphenylamine	1.56	0.34	mg/Kg wet	1.67		93.7		40-140	12.9	30		
N-Nitrosodi-n-propylamine	0.889	0.34	mg/Kg wet	1.67		53.4		40-140	17.2	30	V-05	
Pentachlorophenol	0.956	0.34	mg/Kg wet	1.67		57.3		30-130	25.0	30		
Phenanthrene	1.26	0.17	mg/Kg wet	1.67		75.6		40-140	12.6	30		
Phenol	0.915	0.34	mg/Kg wet	1.67		54.9		30-130	9.79	30		
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.4		40-140	14.8	30		
1,2,4-Trichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.8		40-140	15.8	30		
2,4,6-Trichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.2		30-130	15.3	30		
Surrogate: 2-Fluorophenol	*4.06*		mg/Kg wet	6.67		60.9		30-130				
Surrogate: Phenol-d6	*3.99*		mg/Kg wet	6.67		59.9		30-130				
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/Kg wet	3.33		63.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.96*		mg/Kg wet	6.67		89.4		30-130				
Surrogate: p-Terphenyl-d14	*2.68*		mg/Kg wet	3.33		80.4		30-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076882 - SW-846 3546										
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B077027 - SW-846 3546											
Blank (B077027-BLK1)				Prepared: 07/18/13 Analyzed: 07/19/13							
C9-C18 Aliphatics	ND	10	mg/Kg wet								
C19-C36 Aliphatics	ND	10	mg/Kg wet								
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								
Phenanthrene	ND	0.10	mg/Kg wet								
Pyrene	ND	0.10	mg/Kg wet								
Surrogate: Chlorooctadecane (COD)	*3.28*		mg/Kg wet	4.99		65.8		40-140			
Surrogate: o-Terphenyl (OTP)	*3.55*		mg/Kg wet	5.00		71.0		40-140			
Surrogate: 2-Bromonaphthalene	*4.00*		mg/Kg wet	5.00		80.0		40-140			
Surrogate: 2-Fluorobiphenyl	*4.19*		mg/Kg wet	5.00		83.8		40-140			
LCS (B077027-BS1)				Prepared: 07/18/13 Analyzed: 07/19/13							
Acenaphthene	4.03	0.10	mg/Kg wet	5.00		80.5		40-140			
Acenaphthylene	3.84	0.10	mg/Kg wet	5.00		76.7		40-140			
Anthracene	4.38	0.10	mg/Kg wet	5.00		87.7		40-140			
Benzo(a)anthracene	4.45	0.10	mg/Kg wet	5.00		89.0		40-140			
Benzo(a)pyrene	4.27	0.10	mg/Kg wet	5.00		85.3		40-140			
Benzo(b)fluoranthene	4.37	0.10	mg/Kg wet	5.00		87.4		40-140			
Benzo(g,h,i)perylene	4.47	0.10	mg/Kg wet	5.00		89.5		40-140			
Benzo(k)fluoranthene	4.40	0.10	mg/Kg wet	5.00		87.9		40-140			
Chrysene	4.23	0.10	mg/Kg wet	5.00		84.5		40-140			
Dibenz(a,h)anthracene	4.57	0.10	mg/Kg wet	5.00		91.4		40-140			
Fluoranthene	4.33	0.10	mg/Kg wet	5.00		86.6		40-140			
Fluorene	4.14	0.10	mg/Kg wet	5.00		82.8		40-140			
Indeno(1,2,3-cd)pyrene	4.58	0.10	mg/Kg wet	5.00		91.7		40-140			
2-Methylnaphthalene	3.56	0.10	mg/Kg wet	5.00		71.1		40-140			
Naphthalene	3.15	0.10	mg/Kg wet	5.00		62.9		40-140			
Phenanthrene	4.32	0.10	mg/Kg wet	5.00		86.3		40-140			
Pyrene	4.23	0.10	mg/Kg wet	5.00		84.6		40-140			
n-Decane	1.98	0.10	mg/Kg wet	5.00		**39.5**	*	40-140			L-07
n-Docosane	3.88	0.10	mg/Kg wet	5.00		77.7		40-140			
n-Dodecane	2.78	0.10	mg/Kg wet	5.00		55.6		40-140			
n-Eicosane	3.84	0.10	mg/Kg wet	5.00		76.8		40-140			
n-Hexacosane	3.71	0.10	mg/Kg wet	5.00		74.2		40-140			
n-Hexadecane	3.77	0.10	mg/Kg wet	5.00		75.4		40-140			
n-Hexatriacontane	4.69	0.10	mg/Kg wet	5.00		93.8		40-140			
n-Nonadecane	3.85	0.10	mg/Kg wet	5.00		77.1		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B077027 - SW-846 3546											
LCS (B077027-BS1)				Prepared: 07/18/13 Analyzed: 07/19/13							
n-Nonane	1.25	0.10	mg/Kg wet	5.00		**25.1**	*	30-140			L-07
n-Octacosane	3.63	0.10	mg/Kg wet	5.00		72.5		40-140			
n-Octadecane	3.84	0.10	mg/Kg wet	5.00		76.7		40-140			
n-Tetracosane	3.78	0.10	mg/Kg wet	5.00		75.6		40-140			
n-Tetradecane	3.40	0.10	mg/Kg wet	5.00		68.0		40-140			
n-Triacontane	3.69	0.10	mg/Kg wet	5.00		73.8		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.52*		mg/Kg wet	4.99		70.6		40-140			
Surrogate: o-Terphenyl (OTP)	*4.02*		mg/Kg wet	5.00		80.3		40-140			
Surrogate: 2-Bromonaphthalene	*4.49*		mg/Kg wet	5.00		89.9		40-140			
Surrogate: 2-Fluorobiphenyl	*5.05*		mg/Kg wet	5.00		101		40-140			
LCS Dup (B077027-BSD1)				Prepared: 07/18/13 Analyzed: 07/19/13							
Acenaphthene	4.29	0.10	mg/Kg wet	5.00		85.8		40-140	6.33	25	
Acenaphthylene	4.08	0.10	mg/Kg wet	5.00		81.6		40-140	6.13	25	
Anthracene	4.66	0.10	mg/Kg wet	5.00		93.2		40-140	6.14	25	
Benzo(a)anthracene	4.78	0.10	mg/Kg wet	5.00		95.7		40-140	7.31	25	
Benzo(a)pyrene	4.57	0.10	mg/Kg wet	5.00		91.5		40-140	6.94	25	
Benzo(b)fluoranthene	4.71	0.10	mg/Kg wet	5.00		94.1		40-140	7.35	25	
Benzo(g,h,i)perylene	4.79	0.10	mg/Kg wet	5.00		95.9		40-140	6.91	25	
Benzo(k)fluoranthene	4.72	0.10	mg/Kg wet	5.00		94.4		40-140	7.16	25	
Chrysene	4.53	0.10	mg/Kg wet	5.00		90.7		40-140	7.00	25	
Dibenz(a,h)anthracene	4.89	0.10	mg/Kg wet	5.00		97.9		40-140	6.79	25	
Fluoranthene	4.67	0.10	mg/Kg wet	5.00		93.3		40-140	7.40	25	
Fluorene	4.39	0.10	mg/Kg wet	5.00		87.8		40-140	5.95	25	
Indeno(1,2,3-cd)pyrene	4.93	0.10	mg/Kg wet	5.00		98.5		40-140	7.19	25	
2-Methylnaphthalene	3.92	0.10	mg/Kg wet	5.00		78.4		40-140	9.74	25	
Naphthalene	3.46	0.10	mg/Kg wet	5.00		69.2		40-140	9.43	25	
Phenanthrene	4.58	0.10	mg/Kg wet	5.00		91.5		40-140	5.83	25	
Pyrene	4.55	0.10	mg/Kg wet	5.00		90.9		40-140	7.24	25	
n-Decane	2.21	0.10	mg/Kg wet	5.00		44.3		40-140	11.3	25	
n-Docosane	4.01	0.10	mg/Kg wet	5.00		80.2		40-140	3.29	25	
n-Dodecane	2.96	0.10	mg/Kg wet	5.00		59.1		40-140	6.13	25	
n-Eicosane	3.97	0.10	mg/Kg wet	5.00		79.4		40-140	3.40	25	
n-Hexacosane	3.87	0.10	mg/Kg wet	5.00		77.3		40-140	4.10	25	
n-Hexadecane	3.82	0.10	mg/Kg wet	5.00		76.5		40-140	1.45	25	
n-Hexatriacontane	4.98	0.10	mg/Kg wet	5.00		99.6		40-140	6.05	25	
n-Nonadecane	3.96	0.10	mg/Kg wet	5.00		79.2		40-140	2.67	25	
n-Nonane	1.51	0.10	mg/Kg wet	5.00		30.1		30-140	18.2	25	
n-Octacosane	3.79	0.10	mg/Kg wet	5.00		75.8		40-140	4.38	25	
n-Octadecane	3.93	0.10	mg/Kg wet	5.00		78.6		40-140	2.40	25	
n-Tetracosane	3.93	0.10	mg/Kg wet	5.00		78.6		40-140	3.94	25	
n-Tetradecane	3.52	0.10	mg/Kg wet	5.00		70.4		40-140	3.51	25	
n-Triacontane	3.87	0.10	mg/Kg wet	5.00		77.5		40-140	4.81	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.61*		mg/Kg wet	4.99		72.3		40-140			
Surrogate: o-Terphenyl (OTP)	*4.15*		mg/Kg wet	5.00		82.9		40-140			
Surrogate: 2-Bromonaphthalene	*4.78*		mg/Kg wet	5.00		95.6		40-140			
Surrogate: 2-Fluorobiphenyl	*5.20*		mg/Kg wet	5.00		104		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076643 - MA VPH										
Blank (B076643-BLK1)				Prepared & Analyzed: 07/12/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*2.79*		mg/Kg wet	3.33		83.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.68*		mg/Kg wet	3.33		80.4	70-130			
LCS (B076643-BS1)				Prepared & Analyzed: 07/12/13						
Benzene	5.07	0.050	mg/Kg wet	5.00		101	70-130			
Butylcyclohexane	4.03	0.050	mg/Kg wet	5.00		80.7	70-130			
Decane	4.18	0.050	mg/Kg wet	5.00		83.6	70-130			
Ethylbenzene	5.40	0.050	mg/Kg wet	5.00		108	70-130			
Methyl tert-Butyl Ether (MTBE)	4.98	0.050	mg/Kg wet	5.00		99.6	70-130			
2-Methylpentane	4.16	0.050	mg/Kg wet	5.00		83.1	70-130			
Naphthalene	4.77	0.25	mg/Kg wet	5.00		95.4	70-130			
Nonane	3.89	0.050	mg/Kg wet	5.00		77.8	30-130			
Pentane	3.82	0.050	mg/Kg wet	5.00		76.4	70-130			
Toluene	5.28	0.050	mg/Kg wet	5.00		106	70-130			
1,2,4-Trimethylbenzene	5.08	0.050	mg/Kg wet	5.00		102	70-130			
2,2,4-Trimethylpentane	4.39	0.050	mg/Kg wet	5.00		87.8	70-130			
m+p Xylene	11.0	0.10	mg/Kg wet	10.0		110	70-130			
o-Xylene	5.38	0.050	mg/Kg wet	5.00		108	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*2.65*		mg/Kg wet	3.33		79.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.52*		mg/Kg wet	3.33		75.7	70-130			
LCS Dup (B076643-BSD1)				Prepared & Analyzed: 07/12/13						
Benzene	4.99	0.050	mg/Kg wet	5.00		99.7	70-130	1.60	25	
Butylcyclohexane	4.01	0.050	mg/Kg wet	5.00		80.1	70-130	0.699	25	
Decane	4.16	0.050	mg/Kg wet	5.00		83.1	70-130	0.530	25	
Ethylbenzene	5.31	0.050	mg/Kg wet	5.00		106	70-130	1.66	25	
Methyl tert-Butyl Ether (MTBE)	4.97	0.050	mg/Kg wet	5.00		99.5	70-130	0.154	25	
2-Methylpentane	3.99	0.050	mg/Kg wet	5.00		79.8	70-130	4.06	25	
Naphthalene	4.89	0.25	mg/Kg wet	5.00		97.8	70-130	2.46	25	
Nonane	3.91	0.050	mg/Kg wet	5.00		78.1	30-130	0.411	25	
Pentane	3.70	0.050	mg/Kg wet	5.00		74.0	70-130	3.24	25	
Toluene	5.21	0.050	mg/Kg wet	5.00		104	70-130	1.34	25	
1,2,4-Trimethylbenzene	5.04	0.050	mg/Kg wet	5.00		101	70-130	0.826	25	
2,2,4-Trimethylpentane	4.15	0.050	mg/Kg wet	5.00		83.0	70-130	5.61	25	
m+p Xylene	10.8	0.10	mg/Kg wet	10.0		108	70-130	1.32	25	
o-Xylene	5.32	0.050	mg/Kg wet	5.00		106	70-130	1.19	25	
Surrogate: 2,5-Dibromotoluene (FID)	*2.85*		mg/Kg wet	3.33		85.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.71*		mg/Kg wet	3.33		81.4	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076506 - SW-846 3050B										
Blank (B076506-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
LCS (B076506-BS1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	123	1.0	mg/Kg wet	125		98.3	81.6-117.6		30	
Lead	115	1.5	mg/Kg wet	136		84.4	82.4-117.8		30	
LCS Dup (B076506-BSD1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	128	1.0	mg/Kg wet	125		102	81.6-117.6	3.80	30	
Lead	119	1.5	mg/Kg wet	136		87.7	82.4-117.8	3.85	30	
MRL Check (B076506-MRL1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Lead	0.783	0.72	mg/Kg wet	0.718		109	80-120			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-11	Elevated reporting limit due to high concentration of target compounds.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

SMC	Steven M. Case
SCS	Scott C. Sadowski
RH	Robert H. Witherell
PEB	Paula E. Blakeborough
OP	Ornela Piluri
OJS	Olga J. Szymura
MJH	Matthew J. Hammond
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
LBD	Lauren B. Damboragian
ESH	Erin S. Herlihy
EEH	Eric E. Hess
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 6010C in Soil	
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0398

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Compressor, Boiler, and Oil Pump Rooms
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)	Chromium and Lead (SW-846 6010C)				Comments
	~~Trip Blank~~	-	-	Lab	S	3	2	1				x								BM
01	OPH-1	7/10/13	1200	BM	S	6	2	3			1	x	x	x	x	x				
					S	6	2	3			1	x	x	x	x	x				
					S	6	2	3			1	x	x	x	x	x				
					S	6	2	3			1	x	x	x	x	x				
					S	6	2	3			1	x	x	x	x	x				
					S	6	2	3			1	x	x	x	x	x				
					S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/10/13 1800	1 Fed-X	2	7.11.13 9:23	2 [signature]
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

07-11-13 10:41 IN

FedEx

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by: P BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013 - Thursday		
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS, CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013 - Wednesday		
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON, NJ
3:02 pm	Shipment information sent to FedEx	

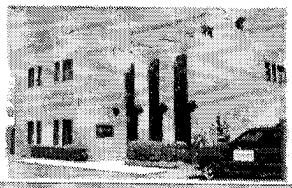
Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7-11-13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**
   On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒
   Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
   Temperature °C by Temp blank 4 Temperature °C by Temp gun _____
5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** LogM

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	1
500 mL Amber		4 oz amber/clear jar	1
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	4	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water 2
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-11-13 10:41 IN

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC Naphtha, Varsol, Methanol UST's
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0399

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0399

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC Naphtha, Varsol, Methanol UST's

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
UNK-UST-2-1	13G0399-01	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
UNK-UST-2-2	13G0399-02	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
UNK-UST-2-3	13G0399-03	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
UNK-UST-2-4	13G0399-04	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076730-BS1	B076730-BSD1
C9-C18	59%	59%
C19-C36	84%	80%
C11-C22	80%	72%

VPH	B076643-BS1	B076643-BSD1
C9-C10	96%	96%

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

C19-C36 Aliphatics, C9-C18 Aliphatics, n-Decane, n-Hexatriacontane, n-Nonane

13G0399-01[UNK-UST-2-1], 13G0399-02[UNK-UST-2-2], 13G0399-03[UNK-UST-2-3], 13G0399-04[UNK-UST-2-4], B076730-BLK1, B076730-BS1, B076730-BSD1

SW-846 8260B

Qualifications:

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA), Vinyl Acetate

13G0399-01[UNK-UST-2-1], 13G0399-02[UNK-UST-2-2], 13G0399-03[UNK-UST-2-3], 13G0399-04[UNK-UST-2-4], B076754-BLK1, B076754-BS1, B076754-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076754-BS1, B076754-BSD1

SW-846 8270D

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Benzoic Acid, Hexachlorocyclopentadiene

13G0399-01[UNK-UST-2-1], 13G0399-02[UNK-UST-2-2], 13G0399-03[UNK-UST-2-3], 13G0399-04[UNK-UST-2-4], B076882-BLK1, B076882-BS1, B076882-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine

13G0399-01[UNK-UST-2-1], 13G0399-02[UNK-UST-2-2], 13G0399-04[UNK-UST-2-4]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

3/4-Methylphenol, 4-Nitrophenol, Benzo(g,h,i)perylene, Benzoic Acid, Bis(2-chloroisopropyl)ether, Di-n-octylphthalate, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine, Pyrene

B076882-BLK1, B076882-BS1, B076882-BSD1, 13G0399-03[UNK-UST-2-3], 13G0399-01[UNK-UST-2-1], 13G0399-02[UNK-UST-2-2], 13G0399-04[UNK-UST-2-4]

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076882-BS1, B076882-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 2-Chloronaphthalene, 2-Nitrophenol, 4,6-Dinitro-2-methylphenol, 4-Nitrophenol, N-Nitrosodi-n-propylamine

13G0399-03[UNK-UST-2-3], B076882-BLK1, 13G0399-01[UNK-UST-2-1], 13G0399-02[UNK-UST-2-2], 13G0399-04[UNK-UST-2-4]

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.12	0.028	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Benzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Bromobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Bromodichloromethane	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Bromoform	ND	0.0048	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
2-Butanone (MEK)	ND	0.048	0.021	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
tert-Butyl Alcohol (TBA)	ND	0.048	0.025	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 12:07	MFF
n-Butylbenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
sec-Butylbenzene	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
tert-Butylbenzene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Carbon Tetrachloride	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Chlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Chlorodibromomethane	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Chloroform	ND	0.0048	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
2-Chlorotoluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
4-Chlorotoluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,2-Dibromoethane (EDB)	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,1-Dichloroethane	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,1-Dichloroethylene	ND	0.0048	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,3-Dichloropropane	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
2,2-Dichloropropane	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,1-Dichloropropene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Diisopropyl Ether (DIPE)	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Ethylbenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.024	0.0085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Naphthalene	ND	0.0048	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
n-Propylbenzene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Styrene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Toluene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,2,3-Trichlorobenzene	ND	0.012	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,2,4-Trichlorobenzene	ND	0.012	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,2,3-Trichloropropane	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,2,4-Trimethylbenzene	ND	0.0024	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
1,3,5-Trimethylbenzene	ND	0.0024	0.00072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Vinyl Acetate	ND	0.048	0.0080	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 12:07	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
m+p Xylene	ND	0.0048	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF
o-Xylene	ND	0.0024	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	115	70-130		7/16/13 12:07
Toluene-d8	98.8	70-130		7/16/13 12:07
4-Bromofluorobenzene	102	70-130		7/16/13 12:07

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.0062	mg/Kg dry	66295	2.587	1	000110-54-3	SW-846 8260C	7/15/13	7/16/13 12:07	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.099	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Acenaphthylene	ND	0.20	0.095	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Benzo(a)anthracene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Benzo(a)pyrene	ND	0.20	0.070	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Benzo(b)fluoranthene	ND	0.20	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.088	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
4-Bromophenylphenylether	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
4-Chloroaniline	ND	0.77	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
4-Chloro-3-methylphenol	ND	0.77	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2-Chloronaphthalene	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
4-Chlorophenylphenylether	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Dibenzofuran	ND	0.40	0.092	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
1,2-Dichlorobenzene	ND	0.40	0.079	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
1,3-Dichlorobenzene	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
1,4-Dichlorobenzene	ND	0.40	0.098	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1	V-04	SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2,4-Dimethylphenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Dimethylphthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2,4-Dinitrophenol	ND	0.77	0.39	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Di-n-octylphthalate	ND	0.78	0.54	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 15:18	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04	SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Isophorone	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2-Methylnaphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2-Methylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Naphthalene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
4-Nitrophenol	ND	0.77	0.69	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/21/13 15:18	BGL
N-Nitrosodiphenylamine	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Pentachlorophenol	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Phenol	ND	0.40	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
Pyrene	ND	0.20	0.14	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 15:18	BGL
1,2,4-Trichlorobenzene	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:18	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	52.5	30-130		7/21/13 15:18
Phenol-d6	58.9	30-130		7/21/13 15:18
Nitrobenzene-d5	49.7	30-130		7/21/13 15:18
2-Fluorobiphenyl	49.2	30-130		7/21/13 15:18
2,4,6-Tribromophenol	63.9	30-130		7/21/13 15:18
p-Terphenyl-d14	67.4	30-130		7/21/13 15:18

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyclic octaatomic sulfur	0.37	mg/Kg dry	414398	12.441	1	010544-50-0	SW-846 8270D	7/17/13	7/21/13 15:18	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 0:49	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	62.7	40-140		7/17/13 0:49
o-Terphenyl (OTP)	59.4	40-140		7/17/13 0:49
2-Bromonaphthalene	78.7	40-140		7/17/13 0:49
2-Fluorobiphenyl	83.7	40-140		7/17/13 0:49

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.93

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
Benzene	ND	0.072	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
Ethylbenzene	ND	0.072	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.072	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
Naphthalene	ND	0.36	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
Toluene	ND	0.072	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH
o-Xylene	ND	0.072	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 17:56	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	117	70-130		7/12/13 17:56
2,5-Dibromotoluene (PID)	114	70-130		7/12/13 17:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-1 Sampled: 7/10/2013 15:45

Sample ID: 13G0399-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2 Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.025	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Benzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Bromobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Bromodichloromethane	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Bromoform	ND	0.0043	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
2-Butanone (MEK)	ND	0.043	0.019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
tert-Butyl Alcohol (TBA)	ND	0.043	0.022	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 12:35	MFF
n-Butylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
sec-Butylbenzene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
tert-Butylbenzene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Carbon Tetrachloride	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Chlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Chlorodibromomethane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Chloroform	ND	0.0043	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Chloromethane	ND	0.011	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
2-Chlorotoluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
4-Chlorotoluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,2-Dibromoethane (EDB)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,1-Dichloroethane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,1-Dichloroethylene	ND	0.0043	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,3-Dichloropropane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
2,2-Dichloropropane	ND	0.0043	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,1-Dichloropropene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Diisopropyl Ether (DIPE)	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Ethylbenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
2-Hexanone (MBK)	ND	0.021	0.012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0043	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2 Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.021	0.0076	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Naphthalene	ND	0.0043	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
n-Propylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Styrene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Toluene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,2,3-Trichlorobenzene	ND	0.011	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,2,4-Trichlorobenzene	ND	0.011	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Trichloroethylene	ND	0.0021	0.00096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,2,3-Trichloropropane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00064	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Vinyl Acetate	ND	0.043	0.0071	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 12:35	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
m+p Xylene	ND	0.0043	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF
o-Xylene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 12:35	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	113	70-130		7/16/13 12:35
Toluene-d8	99.1	70-130		7/16/13 12:35
4-Bromofluorobenzene	101	70-130		7/16/13 12:35

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2 Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.0088	mg/Kg dry	105766	2.584	1	000110-54-3	SW-846 8260C	7/15/13	7/16/13 12:35	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2 Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Acenaphthylene	ND	0.20	0.096	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Benzo(a)anthracene	ND	0.20	0.091	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Benzo(a)pyrene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.089	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
4-Bromophenylphenylether	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
4-Chloroaniline	ND	0.78	0.20	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
4-Chloro-3-methylphenol	ND	0.78	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2-Chloronaphthalene	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Dibenzofuran	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
1,2-Dichlorobenzene	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
1,3-Dichlorobenzene	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
1,4-Dichlorobenzene	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1	V-04	SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
4,6-Dinitro-2-methylphenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2,4-Dinitrophenol	ND	0.78	0.40	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Di-n-octylphthalate	ND	0.79	0.55	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 15:47	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04	SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2 Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Naphthalene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
4-Nitrophenol	ND	0.78	0.70	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/21/13 15:47	BGL
N-Nitrosodiphenylamine	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
Pyrene	ND	0.20	0.14	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 15:47	BGL
1,2,4-Trichlorobenzene	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 15:47	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	43.2	30-130		7/21/13 15:47
Phenol-d6	46.8	30-130		7/21/13 15:47
Nitrobenzene-d5	43.9	30-130		7/21/13 15:47
2-Fluorobiphenyl	38.8	30-130		7/21/13 15:47
2,4,6-Tribromophenol	64.2	30-130		7/21/13 15:47
p-Terphenyl-d14	53.5	30-130		7/21/13 15:47

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2 Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyclic octaatomic sulfur	2.7	mg/Kg dry	2618400	12.472	1	010544-50-0	SW-846 8270D	7/17/13	7/21/13 15:47	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2 Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:10	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	59.8	40-140		7/17/13 1:10
o-Terphenyl (OTP)	65.0	40-140		7/17/13 1:10
2-Bromonaphthalene	84.1	40-140		7/17/13 1:10
2-Fluorobiphenyl	87.8	40-140		7/17/13 1:10

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2 Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.05

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
Unadjusted C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
C9-C10 Aromatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
Benzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
Ethylbenzene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
Naphthalene	ND	0.33	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
Toluene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
m+p Xylene	ND	0.13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH
o-Xylene	ND	0.065	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 18:33	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	111	70-130		7/12/13 18:33
2,5-Dibromotoluene (PID)	109	70-130		7/12/13 18:33

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met
Sample Description:
Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-2
Sampled: 7/10/2013 16:00

Sample ID: 13G0399-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3 Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.052	0.11	0.025	mg/Kg dry	1	J	SW-846 8260B	7/15/13	7/16/13 13:03	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Benzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Bromobenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Bromochloromethane	ND	0.0021	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Bromodichloromethane	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Bromoform	ND	0.0042	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Bromomethane	ND	0.011	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
2-Butanone (MEK)	ND	0.042	0.018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
tert-Butyl Alcohol (TBA)	ND	0.042	0.022	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 13:03	MFF
n-Butylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
sec-Butylbenzene	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
tert-Butylbenzene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00063	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Carbon Tetrachloride	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Chlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Chlorodibromomethane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Chloroethane	ND	0.021	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Chloroform	ND	0.0042	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Chloromethane	ND	0.011	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
2-Chlorotoluene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
4-Chlorotoluene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,2-Dibromoethane (EDB)	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,2-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,3-Dichlorobenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,4-Dichlorobenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,1-Dichloroethane	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,2-Dichloroethane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,1-Dichloroethylene	ND	0.0042	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
cis-1,2-Dichloroethylene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
trans-1,2-Dichloroethylene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,2-Dichloropropane	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,3-Dichloropropane	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
2,2-Dichloropropane	ND	0.0042	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,1-Dichloropropene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Diisopropyl Ether (DIPE)	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Ethylbenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
2-Hexanone (MBK)	ND	0.021	0.011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Isopropylbenzene (Cumene)	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0042	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3 Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.021	0.0075	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.021	0.0080	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Naphthalene	ND	0.0042	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
n-Propylbenzene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Styrene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,1,1,2-Tetrachloroethane	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Tetrachloroethylene	ND	0.0021	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Toluene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,2,3-Trichlorobenzene	ND	0.011	0.00063	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,2,4-Trichlorobenzene	ND	0.011	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,1,1-Trichloroethane	ND	0.0021	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,1,2-Trichloroethane	ND	0.0021	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Trichloroethylene	ND	0.0021	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,2,3-Trichloropropane	ND	0.0021	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,2,4-Trimethylbenzene	ND	0.0021	0.00084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
1,3,5-Trimethylbenzene	ND	0.0021	0.00063	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Vinyl Acetate	ND	0.042	0.0071	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 13:03	MFF
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
m+p Xylene	ND	0.0042	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF
o-Xylene	ND	0.0021	0.00074	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	114	70-130		7/16/13 13:03
Toluene-d8	99.6	70-130		7/16/13 13:03
4-Bromofluorobenzene	101	70-130		7/16/13 13:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3 Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Cyclohexane, 1,1,3-trimethyl-	0.013	mg/Kg dry	271246	6.989	1	003073-66-3	SW-846 8260C	7/15/13	7/16/13 13:03	MFF
Cyclohexane, 1-ethyl-2-meth...	0.016	mg/Kg dry	332276	8.046	1	004923-78-8	SW-846 8260C	7/15/13	7/16/13 13:03	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3 Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Acenaphthylene	ND	0.20	0.097	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Benzo(a)anthracene	ND	0.20	0.091	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Benzo(a)pyrene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
4-Bromophenylphenylether	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
4-Chloroaniline	ND	0.78	0.20	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
4-Chloro-3-methylphenol	ND	0.78	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2-Chloronaphthalene	ND	0.40	0.13	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Dibenzofuran	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
1,2-Dichlorobenzene	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
1,3-Dichlorobenzene	ND	0.40	0.095	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
1,4-Dichlorobenzene	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.17	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2,4-Dinitrophenol	ND	0.78	0.40	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Di-n-octylphthalate	ND	0.79	0.55	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3 Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.077	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Naphthalene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/22/13 10:19	CMR
4-Nitrophenol	ND	0.78	0.70	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/22/13 10:19	CMR
N-Nitrosodiphenylamine	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
1,2,4-Trichlorobenzene	ND	0.40	0.097	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/17/13	7/22/13 10:19	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	47.7	30-130		7/22/13 10:19
Phenol-d6	46.6	30-130		7/22/13 10:19
Nitrobenzene-d5	50.1	30-130		7/22/13 10:19
2-Fluorobiphenyl	52.2	30-130		7/22/13 10:19
2,4,6-Tribromophenol	62.4	30-130		7/22/13 10:19
p-Terphenyl-d14	65.4	30-130		7/22/13 10:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3 Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.65	mg/Kg dry	664217	14.551	1	000301-02-0	SW-846 8270D	7/17/13	7/22/13 10:19	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3 Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:31	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	68.2	40-140		7/17/13 1:31
o-Terphenyl (OTP)	72.1	40-140		7/17/13 1:31
2-Bromonaphthalene	83.6	40-140		7/17/13 1:31
2-Fluorobiphenyl	91.1	40-140		7/17/13 1:31

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3 Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.99

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
Benzene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
Ethylbenzene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
Naphthalene	ND	0.35	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
Toluene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH
o-Xylene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:09	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	111	70-130		7/12/13 19:09
2,5-Dibromotoluene (PID)	106	70-130		7/12/13 19:09

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met
Sample Description:
Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-3
Sampled: 7/10/2013 16:15

Sample ID: 13G0399-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4 Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.024	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Benzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Bromobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Bromodichloromethane	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Bromoform	ND	0.0041	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
2-Butanone (MEK)	ND	0.041	0.018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
tert-Butyl Alcohol (TBA)	ND	0.041	0.021	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 13:32	MFF
n-Butylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
tert-Butylbenzene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Carbon Tetrachloride	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Chlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Chlorodibromomethane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Chloroform	ND	0.0041	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Chloromethane	ND	0.010	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
2-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
4-Chlorotoluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,1-Dichloroethane	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,1-Dichloroethylene	ND	0.0041	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,3-Dichloropropane	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
2,2-Dichloropropane	ND	0.0041	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,1-Dichloropropene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Diisopropyl Ether (DIPE)	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Ethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0041	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4 Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.020	0.0072	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0077	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Naphthalene	ND	0.0041	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
n-Propylbenzene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Styrene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Toluene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,2,3-Trichlorobenzene	ND	0.010	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,2,4-Trichlorobenzene	ND	0.010	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Trichloroethylene	ND	0.0020	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00061	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Vinyl Acetate	ND	0.041	0.0068	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 13:32	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
m+p Xylene	ND	0.0041	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF
o-Xylene	ND	0.0020	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 13:32	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	115	70-130		7/16/13 13:32
Toluene-d8	100	70-130		7/16/13 13:32
4-Bromofluorobenzene	101	70-130		7/16/13 13:32

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4 Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/15/13	7/16/13 13:32	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4 Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Acenaphthylene	ND	0.21	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Anthracene	ND	0.21	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Benzo(a)anthracene	ND	0.21	0.096	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Benzo(a)pyrene	ND	0.21	0.074	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Benzo(b)fluoranthene	ND	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Benzo(g,h,i)perylene	ND	0.21	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Benzo(k)fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Benzoic Acid	ND	1.2	1.2	mg/Kg dry	1	L-04	SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Bis(2-chloroethoxy)methane	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Bis(2-chloroethyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Bis(2-chloroisopropyl)ether	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Bis(2-Ethylhexyl)phthalate	2.1	0.42	0.094	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
4-Bromophenylphenylether	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Butylbenzylphthalate	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
4-Chloroaniline	ND	0.82	0.21	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
4-Chloro-3-methylphenol	ND	0.82	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2-Chloronaphthalene	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2-Chlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
4-Chlorophenylphenylether	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Chrysene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Dibenz(a,h)anthracene	ND	0.21	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Dibenzofuran	ND	0.42	0.098	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Di-n-butylphthalate	ND	0.42	0.18	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
1,2-Dichlorobenzene	ND	0.42	0.084	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
1,3-Dichlorobenzene	ND	0.42	0.099	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
1,4-Dichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
3,3-Dichlorobenzidine	ND	0.21	0.19	mg/Kg dry	1	V-04	SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2,4-Dichlorophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Diethylphthalate	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2,4-Dimethylphenol	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Dimethylphthalate	ND	0.42	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
4,6-Dinitro-2-methylphenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2,4-Dinitrophenol	ND	0.82	0.42	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Di-n-octylphthalate	ND	0.83	0.58	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 16:45	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.42	0.20	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Fluoranthene	ND	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Fluorene	ND	0.21	0.16	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Hexachlorobenzene	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Hexachlorobutadiene	ND	0.42	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Hexachlorocyclopentadiene	ND	0.42	0.28	mg/Kg dry	1	L-04	SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Hexachloroethane	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	0.14	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Isophorone	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4 Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.21	0.081	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2-Methylnaphthalene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2-Methylphenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
3/4-Methylphenol	ND	0.42	0.23	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Naphthalene	ND	0.21	0.093	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Nitrobenzene	ND	0.42	0.12	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2-Nitrophenol	ND	0.42	0.13	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
4-Nitrophenol	ND	0.82	0.74	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/21/13 16:45	BGL
N-Nitrosodiphenylamine	ND	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
N-Nitrosodi-n-propylamine	ND	0.42	0.13	mg/Kg dry	1	V-20	SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Pentachlorophenol	ND	0.42	0.17	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Phenanthrene	ND	0.21	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Phenol	ND	0.42	0.11	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
Pyrene	ND	0.21	0.15	mg/Kg dry	1	V-05	SW-846 8270D	7/17/13	7/21/13 16:45	BGL
1,2,4-Trichlorobenzene	ND	0.42	0.10	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL
2,4,6-Trichlorophenol	ND	0.42	0.27	mg/Kg dry	1		SW-846 8270D	7/17/13	7/21/13 16:45	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	60.5	30-130		7/21/13 16:45
Phenol-d6	67.2	30-130		7/21/13 16:45
Nitrobenzene-d5	55.7	30-130		7/21/13 16:45
2-Fluorobiphenyl	57.1	30-130		7/21/13 16:45
2,4,6-Tribromophenol	73.6	30-130		7/21/13 16:45
p-Terphenyl-d14	53.3	30-130		7/21/13 16:45

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4 Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
n-Hexadecanoic acid	0.20	mg/Kg dry	204274	11.403	1	000057-10-3	SW-846 8270D	7/17/13	7/21/13 16:45	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4 Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1	L-04	MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Unadjusted C11-C22 Aromatics	14	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
C11-C22 Aromatics	14	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/15/13	7/17/13 1:51	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	72.2	40-140		7/17/13 1:51
o-Terphenyl (OTP)	80.9	40-140		7/17/13 1:51
2-Bromonaphthalene	87.0	40-140		7/17/13 1:51
2-Fluorobiphenyl	99.0	40-140		7/17/13 1:51

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4 Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.11

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
Benzene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
Ethylbenzene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
Toluene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH
o-Xylene	ND	0.069	mg/Kg dry	1		MADEP-VPH-04-1.1	7/12/13	7/12/13 19:45	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	109	70-130		7/12/13 19:45
2,5-Dibromotoluene (PID)	104	70-130		7/12/13 19:45

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met
Sample Description:
Work Order: 13G0399

Date Received: 7/10/2013

Field Sample #: UNK-UST-2-4
Sampled: 7/10/2013 16:30

Sample ID: 13G0399-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0399-01 [UNK-UST-2-1]	B076730	20.1	2.00	07/15/13
13G0399-02 [UNK-UST-2-2]	B076730	20.0	2.00	07/15/13
13G0399-03 [UNK-UST-2-3]	B076730	20.2	2.00	07/15/13
13G0399-04 [UNK-UST-2-4]	B076730	20.0	2.00	07/15/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0399-01 [UNK-UST-2-1]	B076643	13.9	17.1	07/12/13
13G0399-02 [UNK-UST-2-2]	B076643	15.8	17.5	07/12/13
13G0399-03 [UNK-UST-2-3]	B076643	14.9	17.4	07/12/13
13G0399-04 [UNK-UST-2-4]	B076643	16.7	18.4	07/12/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0399-01 [UNK-UST-2-1]	B076761	07/15/13
13G0399-02 [UNK-UST-2-2]	B076761	07/15/13
13G0399-03 [UNK-UST-2-3]	B076761	07/15/13
13G0399-04 [UNK-UST-2-4]	B076761	07/15/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0399-01 [UNK-UST-2-1]	B076754	4.85	10.0	07/15/13
13G0399-02 [UNK-UST-2-2]	B076754	5.55	10.0	07/15/13
13G0399-03 [UNK-UST-2-3]	B076754	5.63	10.0	07/15/13
13G0399-04 [UNK-UST-2-4]	B076754	6.14	10.0	07/15/13

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0399-01 [UNK-UST-2-1]	B076882	30.0	1.00	07/17/13
13G0399-02 [UNK-UST-2-2]	B076882	30.1	1.00	07/17/13
13G0399-03 [UNK-UST-2-3]	B076882	30.1	1.00	07/17/13
13G0399-04 [UNK-UST-2-4]	B076882	30.1	1.00	07/17/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076754 - SW-846 5035										
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Acetate	ND	0.010	mg/Kg wet							V-16	
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0525*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.7	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.0500		98.3	70-130				
LCS (B076754-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Acetone	0.190	0.10	mg/Kg wet	0.200		95.0	70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0233	0.0010	mg/Kg wet	0.0200		117	70-130		25		
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130		25		
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Bromochloromethane	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130		25		
Bromodichloromethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Bromoform	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130		25		
Bromomethane	0.0207	0.010	mg/Kg wet	0.0200		104	40-130		25	V-20	†
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	70-160		25		†
tert-Butyl Alcohol (TBA)	0.199	0.040	mg/Kg wet	0.200		99.7	40-130		25	V-16	†
n-Butylbenzene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
sec-Butylbenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130		25		
tert-Butylbenzene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0244	0.0010	mg/Kg wet	0.0200		122	70-130		25		
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130		25		
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Chlorodibromomethane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130		25		
Chloroethane	0.0227	0.020	mg/Kg wet	0.0200		114	70-130		25		
Chloroform	0.0231	0.0040	mg/Kg wet	0.0200		116	70-130		25		
Chloromethane	0.0163	0.010	mg/Kg wet	0.0200		81.5	70-130		25		
2-Chlorotoluene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130		25		
4-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130		25		
1,2-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130		25		
1,3-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130		25		
1,4-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0175	0.020	mg/Kg wet	0.0200		87.5	40-160		25	J	†
1,1-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
1,2-Dichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130		25		
cis-1,2-Dichloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130		25		
trans-1,2-Dichloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130		25		
1,2-Dichloropropane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS (B076754-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13							
1,3-Dichloropropane	0.0237	0.0010	mg/Kg wet	0.0200		119	70-130		25		
2,2-Dichloropropane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130		25		
1,1-Dichloropropene	0.0237	0.0020	mg/Kg wet	0.0200		118	70-130		25		
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130		25		
trans-1,3-Dichloropropene	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130		25		
Diisopropyl Ether (DIPE)	0.0248	0.0010	mg/Kg wet	0.0200		124	70-130		25		
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
2-Hexanone (MBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160		25		†
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0250	0.0040	mg/Kg wet	0.0200		125	70-130		25		
Methylene Chloride	0.0228	0.020	mg/Kg wet	0.0200		114	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-160		25		†
Naphthalene	0.0193	0.0040	mg/Kg wet	0.0200		96.5	40-130		25		†
n-Propylbenzene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130		25		
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,1,1,2-Tetrachloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130		25		
1,1,2,2-Tetrachloroethane	0.0219	0.0010	mg/Kg wet	0.0200		109	70-130		25		
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Toluene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130		25		
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130		25		
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,1,2-Trichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Trichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0230	0.010	mg/Kg wet	0.0200		115	70-130		25		
1,2,3-Trichloropropane	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130		25		
1,2,4-Trimethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
1,3,5-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Vinyl Acetate	0.198	0.010	mg/Kg wet	0.200		99.1	70-130		25	V-16	
Vinyl Chloride	0.0189	0.010	mg/Kg wet	0.0200		94.5	40-130		25		†
m+p Xylene	0.0448	0.0040	mg/Kg wet	0.0400		112	70-130		25		
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0525*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0505*		mg/Kg wet	0.0500		101	70-130				
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Acetone	0.183	0.10	mg/Kg wet	0.200		91.3	70-160	3.93	25		†
tert-Amyl Methyl Ether (TAME)	0.0231	0.0010	mg/Kg wet	0.0200		115	70-130	1.21	25		
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.76	25		
Bromobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.853	25		
Bromochloromethane	0.0247	0.0020	mg/Kg wet	0.0200		123	70-130	0.243	25		
Bromodichloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.76	25		
Bromoform	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	1.65	25		
Bromomethane	0.0244	0.010	mg/Kg wet	0.0200		122	40-130	16.5	25	V-20	†
2-Butanone (MEK)	0.208	0.040	mg/Kg wet	0.200		104	70-160	1.69	25		†
tert-Butyl Alcohol (TBA)	0.202	0.040	mg/Kg wet	0.200		101	40-130	1.23	25	V-16	†
n-Butylbenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	3.98	25		
sec-Butylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	2.08	25		
tert-Butylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-160	3.17	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0241	0.0010	mg/Kg wet	0.0200		121	70-130	1.32	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	0.103	25		
Chlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	2.83	25		
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130	3.35	25		
Chloroethane	0.0236	0.020	mg/Kg wet	0.0200		118	70-130	3.80	25		
Chloroform	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130	3.34	25		
Chloromethane	0.0164	0.010	mg/Kg wet	0.0200		81.9	70-130	0.490	25		
2-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	4.13	25		
4-Chlorotoluene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130	1.46	25		
1,2-Dibromoethane (EDB)	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	1.02	25		
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.15	25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.25	25		
1,4-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.12	25		
Dichlorodifluoromethane (Freon 12)	0.0178	0.020	mg/Kg wet	0.0200		89.0	40-160	1.70	25	J	†
1,1-Dichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	0.354	25		
1,2-Dichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.917	25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130	0.00	25		
cis-1,2-Dichloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	0.618	25		
trans-1,2-Dichloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	1.64	25		
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.69	25		
1,3-Dichloropropane	0.0226	0.0010	mg/Kg wet	0.0200		113	70-130	4.92	25		
2,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	0.868	25		
1,1-Dichloropropene	0.0236	0.0020	mg/Kg wet	0.0200		118	70-130	0.508	25		
cis-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	1.63	25		
trans-1,3-Dichloropropene	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130	1.95	25		
Diisopropyl Ether (DIPE)	0.0242	0.0010	mg/Kg wet	0.0200		121	70-130	2.53	25		
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.68	25		
2-Hexanone (MBK)	0.203	0.020	mg/Kg wet	0.200		101	70-160	2.64	25		†
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	2.10	25		
p-Isopropyltoluene (p-Cymene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130	2.59	25		
Methyl tert-Butyl Ether (MTBE)	0.0243	0.0040	mg/Kg wet	0.0200		122	70-130	2.76	25		
Methylene Chloride	0.0231	0.020	mg/Kg wet	0.0200		116	40-160	1.48	25		†
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		107	70-160	2.06	25		†
Naphthalene	0.0191	0.0040	mg/Kg wet	0.0200		95.5	40-130	1.04	25		†
n-Propylbenzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130	3.29	25		
Styrene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.66	25		
1,1,1,2-Tetrachloroethane	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	1.33	25		
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	2.41	25		
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.13	25		
Toluene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	3.77	25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130	1.94	25		
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1	70-130	2.28	25		
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	1.27	25		
1,1,2-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130	1.45	25		
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.24	25		
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		116	70-130	0.607	25		
1,2,3-Trichloropropane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	7.69	25		
1,2,4-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.85	25		
1,3,5-Trimethylbenzene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130	3.21	25		
Vinyl Acetate	0.204	0.010	mg/Kg wet	0.200		102	70-130	2.91	25	V-16	
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		95.9	40-130	1.47	25		†
m+p Xylene	0.0436	0.0040	mg/Kg wet	0.0400		109	70-130	2.72	25		
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	3.96	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076754 - SW-846 5035										
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Surrogate: 1,2-Dichloroethane-d4	*0.0538*		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0493*		mg/Kg wet	0.0500		98.6	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076754 - SW-846 5035										
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076882 - SW-846 3546										
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*3.66*		mg/Kg wet	6.67		54.9		30-130				
Surrogate: Phenol-d6	*3.74*		mg/Kg wet	6.67		56.1		30-130				
Surrogate: Nitrobenzene-d5	*2.00*		mg/Kg wet	3.33		59.9		30-130				
Surrogate: 2-Fluorobiphenyl	*1.92*		mg/Kg wet	3.33		57.5		30-130				
Surrogate: 2,4,6-Tribromophenol	*4.56*		mg/Kg wet	6.67		68.5		30-130				
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.6		30-130				
LCS (B076882-BS1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Acenaphthene	0.995	0.17	mg/Kg wet	1.67		59.7		40-140		30		
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3		40-140		30		
Anthracene	1.03	0.17	mg/Kg wet	1.67		61.7		40-140		30		
Benzo(a)anthracene	1.10	0.17	mg/Kg wet	1.67		65.9		40-140		30		
Benzo(a)pyrene	1.03	0.17	mg/Kg wet	1.67		61.7		40-140		30		
Benzo(b)fluoranthene	0.908	0.17	mg/Kg wet	1.67		54.5		40-140		30		
Benzo(g,h,i)perylene	1.18	0.17	mg/Kg wet	1.67		70.5		40-140		30		
Benzo(k)fluoranthene	0.945	0.17	mg/Kg wet	1.67		56.7		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	0.962	0.34	mg/Kg wet	1.67		57.7		40-140		30		
Bis(2-chloroethyl)ether	0.927	0.34	mg/Kg wet	1.67		55.6		40-140		30		
Bis(2-chloroisopropyl)ether	0.777	0.34	mg/Kg wet	1.67		46.6		40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	0.941	0.34	mg/Kg wet	1.67		56.5		40-140		30		
4-Bromophenylphenylether	1.15	0.34	mg/Kg wet	1.67		68.9		40-140		30		
Butylbenzylphthalate	1.05	0.34	mg/Kg wet	1.67		62.7		40-140		30		
4-Chloroaniline	0.739	0.66	mg/Kg wet	1.67		44.4		10-140		30		†
4-Chloro-3-methylphenol	0.969	0.66	mg/Kg wet	1.67		58.1		30-130		30		
2-Chloronaphthalene	0.926	0.34	mg/Kg wet	1.67		55.6		40-140		30		
2-Chlorophenol	0.897	0.34	mg/Kg wet	1.67		53.8		30-130		30		
4-Chlorophenylphenylether	0.922	0.34	mg/Kg wet	1.67		55.3		40-140		30		
Chrysene	1.07	0.17	mg/Kg wet	1.67		64.0		40-140		30		
Dibenz(a,h)anthracene	1.19	0.17	mg/Kg wet	1.67		71.1		40-140		30		
Dibenzofuran	0.994	0.34	mg/Kg wet	1.67		59.7		40-140		30		
Di-n-butylphthalate	0.987	0.34	mg/Kg wet	1.67		59.2		40-140		30		
1,2-Dichlorobenzene	0.791	0.34	mg/Kg wet	1.67		47.5		40-140		30		
1,3-Dichlorobenzene	0.781	0.34	mg/Kg wet	1.67		46.8		40-140		30		
1,4-Dichlorobenzene	0.781	0.34	mg/Kg wet	1.67		46.9		40-140		30		
3,3-Dichlorobenzidine	0.948	0.17	mg/Kg wet	1.67		56.9		20-140		50		†
2,4-Dichlorophenol	1.04	0.34	mg/Kg wet	1.67		62.2		30-130		30		
Diethylphthalate	0.945	0.34	mg/Kg wet	1.67		56.7		40-140		30		
2,4-Dimethylphenol	1.04	0.34	mg/Kg wet	1.67		62.6		30-130		30		
Dimethylphthalate	0.993	0.34	mg/Kg wet	1.67		59.6		40-140		30		
4,6-Dinitro-2-methylphenol	1.17	0.34	mg/Kg wet	1.67		70.0		30-130		30		
2,4-Dinitrophenol	0.958	0.66	mg/Kg wet	1.67		57.5		30-130		30	V-06	
Di-n-octylphthalate	0.827	0.67	mg/Kg wet	1.67		49.6		40-140		30		
1,2-Diphenylhydrazine (as Azobenzene)	0.990	0.34	mg/Kg wet	1.67		59.4		40-140		30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
LCS (B076882-BS1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.2		40-140		30		
Fluorene	0.920	0.17	mg/Kg wet	1.67		55.2		40-140		30		
Hexachlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.5		40-140		30		
Hexachlorobutadiene	0.881	0.34	mg/Kg wet	1.67		52.9		40-140		30		
Hexachlorocyclopentadiene	0.611	0.34	mg/Kg wet	1.67		**36.6**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.776	0.34	mg/Kg wet	1.67		46.5		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2		40-140		30		
Isophorone	0.944	0.34	mg/Kg wet	1.67		56.6		40-140		30		
1-Methylnaphthalene	0.890	0.17	mg/Kg wet	1.67		53.4		40-140		30		
2-Methylnaphthalene	0.854	0.17	mg/Kg wet	1.67		51.3		40-140		30		
2-Methylphenol	0.930	0.34	mg/Kg wet	1.67		55.8		30-130		30		
3/4-Methylphenol	0.936	0.34	mg/Kg wet	1.67		56.2		30-130		30	V-05	
Naphthalene	0.905	0.17	mg/Kg wet	1.67		54.3		40-140		30		
Nitrobenzene	0.922	0.34	mg/Kg wet	1.67		55.3		40-140		30		
2-Nitrophenol	1.11	0.34	mg/Kg wet	1.67		66.6		30-130		30		
4-Nitrophenol	0.975	0.66	mg/Kg wet	1.67		58.5		30-130		50		
N-Nitrosodiphenylamine	1.37	0.34	mg/Kg wet	1.67		82.4		40-140		30		
N-Nitrosodi-n-propylamine	0.749	0.34	mg/Kg wet	1.67		44.9		40-140		30	V-05	
Pentachlorophenol	0.743	0.34	mg/Kg wet	1.67		44.6		30-130		30		
Phenanthrene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140		30		
Phenol	0.829	0.34	mg/Kg wet	1.67		49.8		30-130		30		
Pyrene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140		30		
1,2,4-Trichlorobenzene	0.949	0.34	mg/Kg wet	1.67		57.0		40-140		30		
2,4,6-Trichlorophenol	1.05	0.34	mg/Kg wet	1.67		62.7		30-130		30		
Surrogate: 2-Fluorophenol	*3.62*		mg/Kg wet	6.67		54.3		30-130				
Surrogate: Phenol-d6	*3.64*		mg/Kg wet	6.67		54.7		30-130				
Surrogate: Nitrobenzene-d5	*1.97*		mg/Kg wet	3.33		59.2		30-130				
Surrogate: 2-Fluorobiphenyl	*1.96*		mg/Kg wet	3.33		58.8		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.09*		mg/Kg wet	6.67		76.3		30-130				
Surrogate: p-Terphenyl-d14	*2.39*		mg/Kg wet	3.33		71.7		30-130				
LCS Dup (B076882-BSD1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140	14.2	30		
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.8		40-140	14.3	30		
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.9		40-140	16.6	30		
Benzo(a)anthracene	1.23	0.17	mg/Kg wet	1.67		73.7		40-140	11.1	30		
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140	15.3	30		
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		60.9		40-140	11.2	30		
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.4		40-140	9.01	30		
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.0		40-140	20.9	30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.14	0.34	mg/Kg wet	1.67		68.7		40-140	17.3	30		
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		64.7		40-140	15.0	30		
Bis(2-chloroisopropyl)ether	0.913	0.34	mg/Kg wet	1.67		54.8		40-140	16.2	30	V-05	
Bis(2-Ethylhexyl)phthalate	1.03	0.34	mg/Kg wet	1.67		61.8		40-140	9.00	30		
4-Bromophenylphenylether	1.35	0.34	mg/Kg wet	1.67		81.2		40-140	16.4	30		
Butylbenzylphthalate	1.21	0.34	mg/Kg wet	1.67		72.8		40-140	14.8	30		
4-Chloroaniline	0.673	0.66	mg/Kg wet	1.67		40.4		10-140	9.39	30		†
4-Chloro-3-methylphenol	1.14	0.66	mg/Kg wet	1.67		68.5		30-130	16.5	30		
2-Chloronaphthalene	1.14	0.34	mg/Kg wet	1.67		68.3		40-140	20.5	30		
2-Chlorophenol	1.04	0.34	mg/Kg wet	1.67		62.7		30-130	15.2	30		
4-Chlorophenylphenylether	1.05	0.34	mg/Kg wet	1.67		63.0		40-140	13.0	30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076882 - SW-846 3546												
LCS Dup (B076882-BSD1)				Prepared: 07/17/13 Analyzed: 07/19/13								
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.5		40-140	13.7	30		
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.2		40-140	2.79	30		
Dibenzofuran	1.12	0.34	mg/Kg wet	1.67		67.5		40-140	12.3	30		
Di-n-butylphthalate	1.21	0.34	mg/Kg wet	1.67		72.4		40-140	20.0	30		
1,2-Dichlorobenzene	0.921	0.34	mg/Kg wet	1.67		55.2		40-140	15.2	30		
1,3-Dichlorobenzene	0.905	0.34	mg/Kg wet	1.67		54.3		40-140	14.7	30		
1,4-Dichlorobenzene	0.904	0.34	mg/Kg wet	1.67		54.2		40-140	14.6	30		
3,3-Dichlorobenzidine	1.01	0.17	mg/Kg wet	1.67		60.7		20-140	6.53	50		† ‡
2,4-Dichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.1		30-130	16.2	30		
Diethylphthalate	1.16	0.34	mg/Kg wet	1.67		69.8		40-140	20.7	30		
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.3		30-130	15.7	30		
Dimethylphthalate	1.21	0.34	mg/Kg wet	1.67		72.7		40-140	19.9	30		
4,6-Dinitro-2-methylphenol	1.30	0.34	mg/Kg wet	1.67		77.8		30-130	10.6	30		
2,4-Dinitrophenol	1.01	0.66	mg/Kg wet	1.67		60.7		30-130	5.45	30	V-06	
Di-n-octylphthalate	0.969	0.67	mg/Kg wet	1.67		58.1		40-140	15.7	30		
1,2-Diphenylhydrazine (as Azobenzene)	1.29	0.34	mg/Kg wet	1.67		77.5		40-140	26.5	30		
Fluoranthene	1.30	0.17	mg/Kg wet	1.67		78.0		40-140	17.9	30		
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.3		40-140	10.5	30		
Hexachlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.4		40-140	20.1	30		
Hexachlorobutadiene	1.06	0.34	mg/Kg wet	1.67		63.4		40-140	18.2	30		
Hexachlorocyclopentadiene	0.566	0.34	mg/Kg wet	1.67		**34.0**	*	40-140	7.53	30	L-04, V-05	
Hexachloroethane	0.892	0.34	mg/Kg wet	1.67		53.5		40-140	14.0	30	V-05	
Indeno(1,2,3-cd)pyrene	1.14	0.17	mg/Kg wet	1.67		68.3		40-140	4.07	30		
Isophorone	1.13	0.34	mg/Kg wet	1.67		67.8		40-140	17.9	30		
1-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		62.9		40-140	16.4	30		
2-Methylnaphthalene	0.997	0.17	mg/Kg wet	1.67		59.8		40-140	15.4	30		
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		63.9		30-130	13.6	30		
3/4-Methylphenol	1.06	0.34	mg/Kg wet	1.67		63.8		30-130	12.7	30	V-05	
Naphthalene	1.04	0.17	mg/Kg wet	1.67		62.2		40-140	13.5	30		
Nitrobenzene	1.03	0.34	mg/Kg wet	1.67		61.5		40-140	10.6	30		
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.3		30-130	10.9	30		
4-Nitrophenol	1.14	0.66	mg/Kg wet	1.67		68.3		30-130	15.5	50		‡
N-Nitrosodiphenylamine	1.56	0.34	mg/Kg wet	1.67		93.7		40-140	12.9	30		
N-Nitrosodi-n-propylamine	0.889	0.34	mg/Kg wet	1.67		53.4		40-140	17.2	30	V-05	
Pentachlorophenol	0.956	0.34	mg/Kg wet	1.67		57.3		30-130	25.0	30		
Phenanthrene	1.26	0.17	mg/Kg wet	1.67		75.6		40-140	12.6	30		
Phenol	0.915	0.34	mg/Kg wet	1.67		54.9		30-130	9.79	30		
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.4		40-140	14.8	30		
1,2,4-Trichlorobenzene	1.11	0.34	mg/Kg wet	1.67		66.8		40-140	15.8	30		
2,4,6-Trichlorophenol	1.22	0.34	mg/Kg wet	1.67		73.2		30-130	15.3	30		
Surrogate: 2-Fluorophenol	*4.06*		mg/Kg wet	6.67		60.9		30-130				
Surrogate: Phenol-d6	*3.99*		mg/Kg wet	6.67		59.9		30-130				
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/Kg wet	3.33		63.7		30-130				
Surrogate: 2,4,6-Tribromophenol	*5.96*		mg/Kg wet	6.67		89.4		30-130				
Surrogate: p-Terphenyl-d14	*2.68*		mg/Kg wet	3.33		80.4		30-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076882 - SW-846 3546										
Blank (B076882-BLK1)				Prepared: 07/17/13 Analyzed: 07/19/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
Blank (B076730-BLK1)				Prepared & Analyzed: 07/15/13							
C9-C18 Aliphatics	ND	10	mg/Kg wet								L-04
C19-C36 Aliphatics	ND	10	mg/Kg wet								L-04
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet								
C11-C22 Aromatics	ND	10	mg/Kg wet								
Acenaphthene	ND	0.10	mg/Kg wet								
Acenaphthylene	ND	0.10	mg/Kg wet								
Anthracene	ND	0.10	mg/Kg wet								
Benzo(a)anthracene	ND	0.10	mg/Kg wet								
Benzo(a)pyrene	ND	0.10	mg/Kg wet								
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet								
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet								
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet								
Chrysene	ND	0.10	mg/Kg wet								
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet								
Fluoranthene	ND	0.10	mg/Kg wet								
Fluorene	ND	0.10	mg/Kg wet								
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet								
2-Methylnaphthalene	ND	0.10	mg/Kg wet								
Naphthalene	ND	0.10	mg/Kg wet								
Phenanthrene	ND	0.10	mg/Kg wet								
Pyrene	ND	0.10	mg/Kg wet								
Surrogate: Chlorooctadecane (COD)	*2.81*		mg/Kg wet	4.99		56.3		40-140			
Surrogate: o-Terphenyl (OTP)	*2.94*		mg/Kg wet	5.00		58.8		40-140			
Surrogate: 2-Bromonaphthalene	*5.07*		mg/Kg wet	5.00		101		40-140			
Surrogate: 2-Fluorobiphenyl	*5.34*		mg/Kg wet	5.00		107		40-140			
LCS (B076730-BS1)				Prepared & Analyzed: 07/15/13							
Acenaphthene	2.83	0.10	mg/Kg wet	5.00		56.6		40-140			
Acenaphthylene	2.81	0.10	mg/Kg wet	5.00		56.2		40-140			
Anthracene	4.16	0.10	mg/Kg wet	5.00		83.1		40-140			
Benzo(a)anthracene	4.31	0.10	mg/Kg wet	5.00		86.2		40-140			
Benzo(a)pyrene	3.98	0.10	mg/Kg wet	5.00		79.6		40-140			
Benzo(b)fluoranthene	4.20	0.10	mg/Kg wet	5.00		83.9		40-140			
Benzo(g,h,i)perylene	3.90	0.10	mg/Kg wet	5.00		78.0		40-140			
Benzo(k)fluoranthene	4.02	0.10	mg/Kg wet	5.00		80.4		40-140			
Chrysene	3.97	0.10	mg/Kg wet	5.00		79.4		40-140			
Dibenz(a,h)anthracene	4.09	0.10	mg/Kg wet	5.00		81.9		40-140			
Fluoranthene	4.23	0.10	mg/Kg wet	5.00		84.5		40-140			
Fluorene	3.35	0.10	mg/Kg wet	5.00		67.0		40-140			
Indeno(1,2,3-cd)pyrene	4.29	0.10	mg/Kg wet	5.00		85.7		40-140			
2-Methylnaphthalene	2.80	0.10	mg/Kg wet	5.00		56.0		40-140			
Naphthalene	2.53	0.10	mg/Kg wet	5.00		50.6		40-140			
Phenanthrene	4.01	0.10	mg/Kg wet	5.00		80.2		40-140			
Pyrene	4.17	0.10	mg/Kg wet	5.00		83.4		40-140			
n-Decane	1.60	0.10	mg/Kg wet	5.00		**31.9**	*	40-140			L-04
n-Docosane	4.12	0.10	mg/Kg wet	5.00		82.4		40-140			
n-Dodecane	2.18	0.10	mg/Kg wet	5.00		43.5		40-140			
n-Eicosane	4.00	0.10	mg/Kg wet	5.00		79.9		40-140			
n-Hexacosane	4.11	0.10	mg/Kg wet	5.00		82.2		40-140			
n-Hexadecane	3.24	0.10	mg/Kg wet	5.00		64.7		40-140			
n-Hexatriacontane	1.69	0.10	mg/Kg wet	5.00		**33.8**	*	40-140			L-04
n-Nonadecane	3.97	0.10	mg/Kg wet	5.00		79.3		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076730 - SW-846 3546											
LCS (B076730-BS1)				Prepared & Analyzed: 07/15/13							
n-Nonane	1.05	0.10	mg/Kg wet	5.00		**21.0**	*	30-140			L-04
n-Octacosane	3.96	0.10	mg/Kg wet	5.00		79.2		40-140			
n-Octadecane	3.82	0.10	mg/Kg wet	5.00		76.4		40-140			
n-Tetracosane	4.13	0.10	mg/Kg wet	5.00		82.7		40-140			
n-Tetradecane	2.56	0.10	mg/Kg wet	5.00		51.1		40-140			
n-Triacontane	3.96	0.10	mg/Kg wet	5.00		79.3		40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.74*		mg/Kg wet	4.99		74.9		40-140			
Surrogate: o-Terphenyl (OTP)	*3.40*		mg/Kg wet	5.00		68.0		40-140			
Surrogate: 2-Bromonaphthalene	*4.39*		mg/Kg wet	5.00		87.8		40-140			
Surrogate: 2-Fluorobiphenyl	*4.64*		mg/Kg wet	5.00		92.8		40-140			
LCS Dup (B076730-BSD1)				Prepared & Analyzed: 07/15/13							
Acenaphthene	2.96	0.10	mg/Kg wet	5.00		59.3		40-140	4.68	25	
Acenaphthylene	2.95	0.10	mg/Kg wet	5.00		59.1		40-140	4.99	25	
Anthracene	3.71	0.10	mg/Kg wet	5.00		74.3		40-140	11.2	25	
Benzo(a)anthracene	3.71	0.10	mg/Kg wet	5.00		74.2		40-140	15.1	25	
Benzo(a)pyrene	3.42	0.10	mg/Kg wet	5.00		68.4		40-140	15.2	25	
Benzo(b)fluoranthene	3.58	0.10	mg/Kg wet	5.00		71.6		40-140	15.9	25	
Benzo(g,h,i)perylene	3.34	0.10	mg/Kg wet	5.00		66.8		40-140	15.4	25	
Benzo(k)fluoranthene	3.48	0.10	mg/Kg wet	5.00		69.5		40-140	14.5	25	
Chrysene	3.44	0.10	mg/Kg wet	5.00		68.8		40-140	14.3	25	
Dibenz(a,h)anthracene	3.53	0.10	mg/Kg wet	5.00		70.6		40-140	14.8	25	
Fluoranthene	3.66	0.10	mg/Kg wet	5.00		73.3		40-140	14.2	25	
Fluorene	3.37	0.10	mg/Kg wet	5.00		67.4		40-140	0.619	25	
Indeno(1,2,3-cd)pyrene	3.65	0.10	mg/Kg wet	5.00		73.1		40-140	16.0	25	
2-Methylnaphthalene	2.85	0.10	mg/Kg wet	5.00		56.9		40-140	1.61	25	
Naphthalene	2.55	0.10	mg/Kg wet	5.00		51.0		40-140	0.897	25	
Phenanthrene	3.65	0.10	mg/Kg wet	5.00		73.0		40-140	9.39	25	
Pyrene	3.61	0.10	mg/Kg wet	5.00		72.1		40-140	14.6	25	
n-Decane	1.60	0.10	mg/Kg wet	5.00		**32.0**	*	40-140	0.257	25	L-04
n-Docosane	3.84	0.10	mg/Kg wet	5.00		76.7		40-140	7.13	25	
n-Dodecane	2.29	0.10	mg/Kg wet	5.00		45.8		40-140	5.12	25	
n-Eicosane	3.73	0.10	mg/Kg wet	5.00		74.7		40-140	6.76	25	
n-Hexacosane	3.82	0.10	mg/Kg wet	5.00		76.3		40-140	7.46	25	
n-Hexadecane	3.39	0.10	mg/Kg wet	5.00		67.8		40-140	4.61	25	
n-Hexatriacontane	1.58	0.10	mg/Kg wet	5.00		**31.5**	*	40-140	7.14	25	L-04
n-Nonadecane	3.72	0.10	mg/Kg wet	5.00		74.4		40-140	6.34	25	
n-Nonane	0.982	0.10	mg/Kg wet	5.00		**19.6**	*	30-140	6.74	25	L-04
n-Octacosane	3.66	0.10	mg/Kg wet	5.00		73.3		40-140	7.81	25	
n-Octadecane	3.65	0.10	mg/Kg wet	5.00		73.1		40-140	4.44	25	
n-Tetracosane	3.83	0.10	mg/Kg wet	5.00		76.7		40-140	7.56	25	
n-Tetradecane	2.85	0.10	mg/Kg wet	5.00		57.1		40-140	11.0	25	
n-Triacontane	3.67	0.10	mg/Kg wet	5.00		73.5		40-140	7.57	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00				0-5			
Surrogate: Chlorooctadecane (COD)	*3.37*		mg/Kg wet	4.99		67.6		40-140			
Surrogate: o-Terphenyl (OTP)	*2.93*		mg/Kg wet	5.00		58.6		40-140			
Surrogate: 2-Bromonaphthalene	*4.45*		mg/Kg wet	5.00		89.0		40-140			
Surrogate: 2-Fluorobiphenyl	*4.71*		mg/Kg wet	5.00		94.2		40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076643 - MA VPH										
Blank (B076643-BLK1)				Prepared & Analyzed: 07/12/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*2.79*		mg/Kg wet	3.33		83.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.68*		mg/Kg wet	3.33		80.4	70-130			
LCS (B076643-BS1)				Prepared & Analyzed: 07/12/13						
Benzene	5.07	0.050	mg/Kg wet	5.00		101	70-130			
Butylcyclohexane	4.03	0.050	mg/Kg wet	5.00		80.7	70-130			
Decane	4.18	0.050	mg/Kg wet	5.00		83.6	70-130			
Ethylbenzene	5.40	0.050	mg/Kg wet	5.00		108	70-130			
Methyl tert-Butyl Ether (MTBE)	4.98	0.050	mg/Kg wet	5.00		99.6	70-130			
2-Methylpentane	4.16	0.050	mg/Kg wet	5.00		83.1	70-130			
Naphthalene	4.77	0.25	mg/Kg wet	5.00		95.4	70-130			
Nonane	3.89	0.050	mg/Kg wet	5.00		77.8	30-130			
Pentane	3.82	0.050	mg/Kg wet	5.00		76.4	70-130			
Toluene	5.28	0.050	mg/Kg wet	5.00		106	70-130			
1,2,4-Trimethylbenzene	5.08	0.050	mg/Kg wet	5.00		102	70-130			
2,2,4-Trimethylpentane	4.39	0.050	mg/Kg wet	5.00		87.8	70-130			
m+p Xylene	11.0	0.10	mg/Kg wet	10.0		110	70-130			
o-Xylene	5.38	0.050	mg/Kg wet	5.00		108	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*2.65*		mg/Kg wet	3.33		79.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.52*		mg/Kg wet	3.33		75.7	70-130			
LCS Dup (B076643-BSD1)				Prepared & Analyzed: 07/12/13						
Benzene	4.99	0.050	mg/Kg wet	5.00		99.7	70-130	1.60	25	
Butylcyclohexane	4.01	0.050	mg/Kg wet	5.00		80.1	70-130	0.699	25	
Decane	4.16	0.050	mg/Kg wet	5.00		83.1	70-130	0.530	25	
Ethylbenzene	5.31	0.050	mg/Kg wet	5.00		106	70-130	1.66	25	
Methyl tert-Butyl Ether (MTBE)	4.97	0.050	mg/Kg wet	5.00		99.5	70-130	0.154	25	
2-Methylpentane	3.99	0.050	mg/Kg wet	5.00		79.8	70-130	4.06	25	
Naphthalene	4.89	0.25	mg/Kg wet	5.00		97.8	70-130	2.46	25	
Nonane	3.91	0.050	mg/Kg wet	5.00		78.1	30-130	0.411	25	
Pentane	3.70	0.050	mg/Kg wet	5.00		74.0	70-130	3.24	25	
Toluene	5.21	0.050	mg/Kg wet	5.00		104	70-130	1.34	25	
1,2,4-Trimethylbenzene	5.04	0.050	mg/Kg wet	5.00		101	70-130	0.826	25	
2,2,4-Trimethylpentane	4.15	0.050	mg/Kg wet	5.00		83.0	70-130	5.61	25	
m+p Xylene	10.8	0.10	mg/Kg wet	10.0		108	70-130	1.32	25	
o-Xylene	5.32	0.050	mg/Kg wet	5.00		106	70-130	1.19	25	
Surrogate: 2,5-Dibromotoluene (FID)	*2.85*		mg/Kg wet	3.33		85.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.71*		mg/Kg wet	3.33		81.4	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

WAL	William A. Luchini
SCS	Scott C. Sadowski
PEB	Paula E. Blakeborough
OJS	Olga J. Szymura
MFT	Michael F. Thomas
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
EW	Edwin William
ESH	Erin S. Herlihy
EEH	Eric E. Hess
DMP	DEVIN M. PONTBRIAND
CMR	Catherine M. Rouleau
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0399

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Naphtha, Varsol, Methanol USTs
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)					Comments
	~~Trip Blank~~	-	-	~~Lab~~	~~S~~	~~3~~	~~2~~	~~1~~				~~x~~								TBM
01	UNK-UST-2-1	7/10/13	1545	BM	S	6	2	3			1	x	x	x	x					
02	UNK-UST-2-2		1600		S	6	2	3			1	x	x	x	x					
03	UNK-UST-2-3		1615		S	6	2	3			1	x	x	x	x					
04	UNK-UST-2-4		1630		S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	6	2	3			1	x	x	x	x					
					S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/10/13 1800	1 Fed-X	2	7-11-13 9:23	2 [signature]
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

07-11-13 10:40 IN

FedEx

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013 - Thursday		
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS, CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013 - Wednesday		
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON NJ
3:02 pm	Shipment information sent to FedEx	

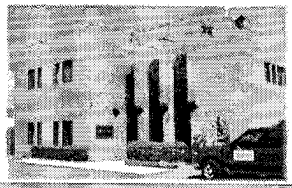
Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.11.13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____

7) **Location where samples are stored:** Log in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	4
500 mL Amber		4 oz amber/clear jar	4
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	16	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 8
Bisulfate _____ # DI Water 8
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-11-13 10:40 IN

Doc# 277
Rev. 3 May 2012

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 24, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenior, NC HWI
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0400

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/24/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0400

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenior, NC HWI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0400-01	Trip Blank Soil		SW-846 8260B	
				SW-846 8260C	
HWI-2	13G0400-02	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
HWI-3	13G0400-03	Soil		ASTM D516-90, 02	
				SM 18-20 4500 NO3 F	
				SM 2540G	
				SM18 4500 NH3 C	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
HWI-4	13G0400-04	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
HWI-5	13G0400-05	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	
Dup-4	13G0400-06	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SM 18-20 4500 NO3 F

Qualifications:

Sample and corresponding duplicate results reflect apparent non-homogeneity of sample.

Analyte & Samples(s) Qualified:

Nitrate as N

13G0400-03[HWI-3], B076672-DUP1

SW-846 6010C

Qualifications:

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Chromium, Zinc

B076591-BLK1, B076506-BLK1

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Chromium, Zinc

13G0400-02[HWI-2], 13G0400-03[HWI-3], 13G0400-04[HWI-4], 13G0400-05[HWI-5], 13G0400-06[Dup-4]

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Antimony

13G0400-03[HWI-3]

SW-846 8260B

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)

B076754-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

13G0400-01[Trip Blank], 13G0400-02[HWI-2], 13G0400-03[HWI-3], 13G0400-04[HWI-4], 13G0400-05[HWI-5], 13G0400-06[Dup-4], B076754-BLK1, B076754-BS1, B076754-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076754-BS1, B076754-BSD1

SW-846 8270D

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

13G0400-02[HWI-2], 13G0400-03[HWI-3], 13G0400-04[HWI-4], 13G0400-05[HWI-5], 13G0400-06[Dup-4], B077054-BLK1, B077054-BS1, B077054-BSD1

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

13G0400-05[HWI-5], B077054-MS1, B077054-MSD1

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

4-Chloroaniline, Acetophenone, Benzaldehyde, Bis(2-chloroisopropyl)ether, Hexachloroethane, N-Nitrosodi-n-propylamine

B077054-MSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Benzaldehyde

13G0400-02[HWI-2], 13G0400-03[HWI-3], 13G0400-04[HWI-4], 13G0400-05[HWI-5], 13G0400-06[Dup-4], B077054-BLK1, B077054-BS1, B077054-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

3/4-Methylphenol, 4-Nitrophenol, Acetophenone, Benzo(b)fluoranthene, Bis(2-chloroisopropyl)ether, Di-n-butylphthalate, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine

B077054-BLK1, B077054-BS1, B077054-BSD1, 13G0400-02[HWI-2], 13G0400-03[HWI-3], 13G0400-04[HWI-4], 13G0400-05[HWI-5], 13G0400-06[Dup-4], B077054-MS1, B077054-MSD1

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B077054-BS1, B077054-BSD1, B077054-MS1, B077054-MSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0400-02[HWI-2], 13G0400-03[HWI-3], 13G0400-04[HWI-4], 13G0400-05[HWI-5], 13G0400-06[Dup-4], B077054-BLK1

---

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Trip Blank | Sampled: 7/10/2013 00:00

Sample ID: 13G0400-01

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Bromoform	ND	0.0040	0.0014	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Carbon Disulfide	ND	0.0060	0.0033	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Cyclohexane	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,4-Dioxane	ND	0.10	0.058	mg/Kg wet	1	V-16	SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Methyl Acetate	ND	0.0020	0.0016	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Methyl Cyclohexane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,2,3-Trichlorobenzene	ND	0.010	0.00060	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,2,4-Trichlorobenzene	ND	0.010	0.00080	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Trip Blank
Sampled: 7/10/2013 00:00

Sample ID: 13G0400-01

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Trichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/15/13	7/16/13 14:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	112	70-130		7/16/13 14:00
Toluene-d8	98.6	70-130		7/16/13 14:00
4-Bromofluorobenzene	99.6	70-130		7/16/13 14:00

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Trip Blank
Sampled: 7/10/2013 00:00

Sample ID: 13G0400-01

Sample Matrix: Trip Blank Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg wet			1		SW-846 8260C	7/15/13	7/16/13 14:00	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-2 | Sampled: 7/10/2013 13:00

Sample ID: 13G0400-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Benzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Bromochloromethane	ND	0.0025	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Bromodichloromethane	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Bromoform	ND	0.0051	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
2-Butanone (MEK)	ND	0.051	0.022	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Carbon Disulfide	ND	0.0076	0.0042	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Carbon Tetrachloride	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Chlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Chlorodibromomethane	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Chloroethane	ND	0.025	0.0019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Chloroform	ND	0.0051	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Chloromethane	ND	0.013	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Cyclohexane	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0025	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,2-Dibromoethane (EDB)	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,2-Dichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,3-Dichlorobenzene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,4-Dichlorobenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.025	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,1-Dichloroethane	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,2-Dichloroethane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,1-Dichloroethylene	ND	0.0051	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
cis-1,2-Dichloroethylene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
trans-1,2-Dichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,2-Dichloropropane	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,4-Dioxane	ND	0.13	0.073	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Ethylbenzene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
2-Hexanone (MBK)	ND	0.025	0.014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Isopropylbenzene (Cumene)	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Methyl Acetate	ND	0.0025	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0051	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Methyl Cyclohexane	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Methylene Chloride	ND	0.025	0.0090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.025	0.0096	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Styrene	ND	0.0025	0.00076	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Tetrachloroethylene	ND	0.0025	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Toluene	ND	0.0025	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,2,3-Trichlorobenzene	ND	0.013	0.00076	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,2,4-Trichlorobenzene	ND	0.013	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400
Date Received: 7/10/2013
Field Sample #: HWI-2
Sampled: 7/10/2013 13:00
Sample ID: 13G0400-02
Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0025	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,1,2-Trichloroethane	ND	0.0025	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Trichloroethylene	ND	0.0025	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
m+p Xylene	ND	0.0051	0.0022	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF
o-Xylene	ND	0.0025	0.00089	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:29	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	114	70-130		7/16/13 14:29
Toluene-d8	99.4	70-130		7/16/13 14:29
4-Bromofluorobenzene	100	70-130		7/16/13 14:29

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-2
Sampled: 7/10/2013 13:00

Sample ID: 13G0400-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/15/13	7/16/13 14:29	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-2 | Sampled: 7/10/2013 13:00

Sample ID: 13G0400-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.74	0.38	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Benzaldehyde	ND	0.38	0.36	mg/Kg dry	1	R-05	SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Biphenyl	ND	0.74	0.47	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Caprolactam	ND	0.38	0.29	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Acenaphthene	ND	0.19	0.094	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Acenaphthylene	ND	0.19	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Acetophenone	ND	0.38	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Benzo(a)anthracene	ND	0.19	0.086	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Benzo(a)pyrene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Benzo(b)fluoranthene	ND	0.19	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Benzo(g,h,i)perylene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Benzo(k)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Bis(2-chloroethoxy)methane	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Bis(2-chloroethyl)ether	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.084	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
4-Bromophenylphenylether	ND	0.38	0.093	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Butylbenzylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Carbazole	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
4-Chloroaniline	ND	0.73	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
4-Chloro-3-methylphenol	ND	0.73	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2-Chloronaphthalene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2-Chlorophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
4-Chlorophenylphenylether	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Chrysene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Dibenzofuran	ND	0.38	0.088	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Di-n-butylphthalate	ND	0.38	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 17:30	CMR
3,3-Dichlorobenzidine	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2,4-Dichlorophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Diethylphthalate	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2,4-Dimethylphenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Dimethylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2,4-Dinitrophenol	ND	0.73	0.38	mg/Kg dry	1	V-20	SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2,4-Dinitrotoluene	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2,6-Dinitrotoluene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Di-n-octylphthalate	ND	0.74	0.52	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Fluorene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Hexachlorobenzene	ND	0.38	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Hexachlorobutadiene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/19/13	7/22/13 17:30	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-2 | Sampled: 7/10/2013 13:00

Sample ID: 13G0400-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Isophorone	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2-Methylnaphthalene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
3/4-Methylphenol	ND	0.38	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Naphthalene	ND	0.19	0.083	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2-Nitroaniline	ND	0.38	0.26	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
3-Nitroaniline	ND	0.38	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
4-Nitroaniline	ND	0.38	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Nitrobenzene	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2-Nitrophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
4-Nitrophenol	ND	0.73	0.66	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 17:30	CMR
N-Nitrosodiphenylamine	ND	0.38	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
N-Nitrosodi-n-propylamine	ND	0.38	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Pentachlorophenol	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Phenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.22	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2,4,5-Trichlorophenol	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
2,4,6-Trichlorophenol	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR
Atrazine	ND	0.74	0.63	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	55.1	30-130		7/22/13 17:30
Phenol-d6	57.5	30-130		7/22/13 17:30
Nitrobenzene-d5	59.9	30-130		7/22/13 17:30
2-Fluorobiphenyl	63.3	30-130		7/22/13 17:30
2,4,6-Tribromophenol	77.7	30-130		7/22/13 17:30
p-Terphenyl-d14	84.6	30-130		7/22/13 17:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-2
Sampled: 7/10/2013 13:00

Sample ID: 13G0400-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/19/13	7/22/13 17:30	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-2
Sampled: 7/10/2013 13:00

Sample ID: 13G0400-02

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	0.83	1.0	0.60	mg/Kg dry	1	J	SW-846 8315	7/11/13	7/12/13 16:14	JMP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-2
Sampled: 7/10/2013 13:00

Sample ID: 13G0400-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	2.2	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Arsenic	ND	2.7	0.98	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Beryllium	ND	0.27	0.044	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 15:29	KSH
Cadmium	0.46	0.27	0.16	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Chromium	3.6	0.54	0.14	mg/Kg dry	1	B-07	SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Copper	3.0	0.54	0.41	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 15:29	KSH
Lead	5.4	0.82	0.38	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Manganese	350	0.54	0.17	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Mercury	0.013	0.027	0.0017	mg/Kg dry	1	J	SW-846 7471B	7/17/13	7/17/13 13:54	SAJ
Nickel	1.9	0.54	0.13	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Selenium	ND	5.4	0.84	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Silver	ND	0.54	0.48	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Thallium	ND	2.7	0.90	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:35	KSH
Zinc	35	1.1	0.28	mg/Kg dry	1	B-07	SW-846 6010C	7/12/13	7/15/13 19:35	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-2
Sampled: 7/10/2013 13:00

Sample ID: 13G0400-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0			% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3 | Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.067	0.12	0.028	mg/Kg dry	1	J	SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Benzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Bromodichloromethane	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Bromoform	ND	0.0048	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Bromomethane	ND	0.012	0.0021	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
2-Butanone (MEK)	ND	0.048	0.021	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Carbon Disulfide	ND	0.0073	0.0040	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Carbon Tetrachloride	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Chlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Chlorodibromomethane	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Chloroform	ND	0.0048	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Cyclohexane	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,2-Dibromoethane (EDB)	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,1-Dichloroethane	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,2-Dichloroethane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,1-Dichloroethylene	ND	0.0048	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,2-Dichloropropane	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,4-Dioxane	ND	0.12	0.070	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Ethylbenzene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Methyl Acetate	ND	0.0024	0.0019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Methylene Chloride	ND	0.024	0.0086	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Styrene	ND	0.0024	0.00073	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Tetrachloroethylene	ND	0.0024	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Toluene	ND	0.0024	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,2,3-Trichlorobenzene	ND	0.012	0.00073	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,2,4-Trichlorobenzene	ND	0.012	0.00097	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3
Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
m+p Xylene	ND	0.0048	0.0021	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF
o-Xylene	ND	0.0024	0.00085	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 14:58	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	117	70-130		7/16/13 14:58
Toluene-d8	99.9	70-130		7/16/13 14:58
4-Bromofluorobenzene	101	70-130		7/16/13 14:58

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3
Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.013	mg/Kg dry	132958	2.582	1	000110-54-3	SW-846 8260C	7/15/13	7/16/13 14:58	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3 | Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.81	0.41	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Benzaldehyde	ND	0.41	0.39	mg/Kg dry	1	R-05	SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Biphenyl	ND	0.81	0.51	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Caprolactam	ND	0.41	0.31	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Acenaphthylene	ND	0.20	0.099	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Acetophenone	ND	0.41	0.099	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Anthracene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Benzo(a)anthracene	ND	0.20	0.093	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Benzo(g,h,i)perylene	ND	0.20	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Bis(2-Ethylhexyl)phthalate	0.19	0.41	0.092	mg/Kg dry	1	J	SW-846 8270D	7/19/13	7/22/13 18:05	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
4-Chloroaniline	ND	0.80	0.20	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
4-Chloro-3-methylphenol	ND	0.80	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Dibenz(a,h)anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Dibenzofuran	ND	0.41	0.095	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 18:05	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2,4-Dinitrophenol	ND	0.80	0.41	mg/Kg dry	1	V-20	SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2,4-Dinitrotoluene	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2,6-Dinitrotoluene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Di-n-octylphthalate	ND	0.81	0.56	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/19/13	7/22/13 18:05	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3 | Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2-Nitroaniline	ND	0.41	0.28	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
3-Nitroaniline	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
4-Nitroaniline	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
4-Nitrophenol	ND	0.80	0.72	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 18:05	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.41	0.24	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2,4,5-Trichlorophenol	ND	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
2,4,6-Trichlorophenol	ND	0.41	0.27	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR
Atrazine	ND	0.81	0.68	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:05	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	57.7	30-130		7/22/13 18:05
Phenol-d6	58.6	30-130		7/22/13 18:05
Nitrobenzene-d5	64.6	30-130		7/22/13 18:05
2-Fluorobiphenyl	65.4	30-130		7/22/13 18:05
2,4,6-Tribromophenol	86.4	30-130		7/22/13 18:05
p-Terphenyl-d14	85.8	30-130		7/22/13 18:05

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3
Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.26	mg/Kg dry	210950	14.521	1	000301-02-0	SW-846 8270D	7/19/13	7/22/13 18:05	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3
Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.2	0.67	mg/Kg dry	1		SW-846 8315	7/11/13	7/12/13 16:26	JMP

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3 | Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.9	4.8	mg/Kg dry	2	DL-04	SW-846 6010C	7/12/13	7/17/13 15:12	KSH
Arsenic	ND	3.0	1.1	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Beryllium	ND	0.30	0.048	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 15:34	KSH
Cadmium	0.68	0.30	0.18	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Chromium	12	0.59	0.15	mg/Kg dry	1	B-07	SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Copper	13	0.59	0.45	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 15:34	KSH
Lead	8.4	0.89	0.41	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Manganese	210	0.59	0.19	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Mercury	0.030	0.030	0.0019	mg/Kg dry	1		SW-846 7471B	7/15/13	7/16/13 13:26	SAJ
Nickel	4.8	0.59	0.14	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Selenium	ND	5.9	0.92	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Silver	ND	0.59	0.52	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Thallium	ND	3.0	0.99	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:39	KSH
Zinc	31	1.2	0.31	mg/Kg dry	1	B-07	SW-846 6010C	7/12/13	7/15/13 19:39	KSH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-3 | Sampled: 7/10/2013 13:20

Sample ID: 13G0400-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	42	23	13	mg/Kg dry	1		SM18 4500 NH3 C	7/12/13	7/12/13 14:00	VAK
Nitrate as N	20	2.7	1.6	mg/Kg dry	1	R-07	SM 18-20 4500 NO3 F	7/12/13	7/12/13 10:38	VAK
Sulfate	ND	230	180	mg/Kg dry	1		ASTM D516-90, 02	7/12/13	7/12/13 12:09	VLA
% Solids	82.7			% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-4 | Sampled: 7/10/2013 13:40

Sample ID: 13G0400-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.038	0.12	0.028	mg/Kg dry	1	J	SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Benzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Bromochloromethane	ND	0.0024	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Bromodichloromethane	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Bromoform	ND	0.0048	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
2-Butanone (MEK)	ND	0.048	0.021	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Carbon Disulfide	ND	0.0071	0.0039	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Carbon Tetrachloride	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Chlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Chlorodibromomethane	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Chloroethane	ND	0.024	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Chloroform	ND	0.0048	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Chloromethane	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Cyclohexane	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0024	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,2-Dibromoethane (EDB)	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,2-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,3-Dichlorobenzene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,4-Dichlorobenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,1-Dichloroethane	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,2-Dichloroethane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,1-Dichloroethylene	ND	0.0048	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
cis-1,2-Dichloroethylene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
trans-1,2-Dichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,2-Dichloropropane	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,4-Dioxane	ND	0.12	0.068	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Ethylbenzene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
2-Hexanone (MBK)	ND	0.024	0.013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Isopropylbenzene (Cumene)	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Methyl Acetate	ND	0.0024	0.0019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0048	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Methyl Cyclohexane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Methylene Chloride	ND	0.024	0.0084	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.024	0.0090	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Styrene	ND	0.0024	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Tetrachloroethylene	ND	0.0024	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Toluene	ND	0.0024	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,2,3-Trichlorobenzene	ND	0.012	0.00071	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,2,4-Trichlorobenzene	ND	0.012	0.00095	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-4
Sampled: 7/10/2013 13:40

Sample ID: 13G0400-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0024	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,1,2-Trichloroethane	ND	0.0024	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Trichloroethylene	ND	0.0024	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0011	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
m+p Xylene	ND	0.0048	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF
o-Xylene	ND	0.0024	0.00083	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	114	70-130		7/16/13 15:27
Toluene-d8	99.6	70-130		7/16/13 15:27
4-Bromofluorobenzene	102	70-130		7/16/13 15:27

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-4
Sampled: 7/10/2013 13:40

Sample ID: 13G0400-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.0092	mg/Kg dry	100518	2.584	1	000110-54-3	SW-846 8260C	7/15/13	7/16/13 15:27	MFF

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-4 | Sampled: 7/10/2013 13:40

Sample ID: 13G0400-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.40	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	R-05	SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Acenaphthylene	ND	0.20	0.096	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Acetophenone	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Benzo(a)anthracene	ND	0.20	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Benzo(a)pyrene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.089	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
4-Bromophenylphenylether	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
4-Chloroaniline	ND	0.78	0.20	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
4-Chloro-3-methylphenol	ND	0.78	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2-Chloronaphthalene	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Dibenzofuran	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 18:40	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2,4-Dinitrophenol	ND	0.78	0.40	mg/Kg dry	1	V-20	SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2,4-Dinitrotoluene	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2,6-Dinitrotoluene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Di-n-octylphthalate	ND	0.79	0.55	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/19/13	7/22/13 18:40	CMR

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400
Date Received: 7/10/2013
Field Sample #: HWI-4
Sampled: 7/10/2013 13:40
Sample ID: 13G0400-04
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Naphthalene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2-Nitroaniline	ND	0.40	0.28	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
3-Nitroaniline	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
4-Nitroaniline	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
4-Nitrophenol	ND	0.78	0.70	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 18:40	CMR
N-Nitrosodiphenylamine	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.23	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2,4,5-Trichlorophenol	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR
Atrazine	ND	0.79	0.66	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	43.0	30-130		7/22/13 18:40
Phenol-d6	44.2	30-130		7/22/13 18:40
Nitrobenzene-d5	48.0	30-130		7/22/13 18:40
2-Fluorobiphenyl	47.1	30-130		7/22/13 18:40
2,4,6-Tribromophenol	60.3	30-130		7/22/13 18:40
p-Terphenyl-d14	61.5	30-130		7/22/13 18:40

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-4
Sampled: 7/10/2013 13:40

Sample ID: 13G0400-04

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/19/13	7/22/13 18:40	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-4
Sampled: 7/10/2013 13:40

Sample ID: 13G0400-04

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	0.80	1.1	0.64	mg/Kg dry	1	J	SW-846 8315	7/11/13	7/12/13 16:38	JMP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-4
Sampled: 7/10/2013 13:40

Sample ID: 13G0400-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.3	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Beryllium	ND	0.28	0.046	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 15:39	KSH
Cadmium	0.64	0.28	0.17	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Chromium	18	0.57	0.14	mg/Kg dry	1	B-07	SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Copper	26	0.57	0.43	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 15:39	KSH
Lead	8.9	0.85	0.39	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Manganese	480	0.57	0.18	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Mercury	ND	0.029	0.0019	mg/Kg dry	1		SW-846 7471B	7/15/13	7/16/13 13:28	SAJ
Nickel	8.8	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Selenium	ND	5.7	0.87	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Silver	ND	0.57	0.50	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Thallium	ND	2.8	0.94	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:44	KSH
Zinc	54	1.1	0.29	mg/Kg dry	1	B-07	SW-846 6010C	7/12/13	7/15/13 19:44	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-4
Sampled: 7/10/2013 13:40

Sample ID: 13G0400-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7			% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5 | Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.13	0.030	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Benzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Bromochloromethane	ND	0.0026	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Bromodichloromethane	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Bromoform	ND	0.0052	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Bromomethane	ND	0.013	0.0022	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
2-Butanone (MEK)	ND	0.052	0.023	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Carbon Disulfide	ND	0.0078	0.0043	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Carbon Tetrachloride	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Chlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Chlorodibromomethane	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Chloroethane	ND	0.026	0.0019	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Chloroform	ND	0.0052	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Chloromethane	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Cyclohexane	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,2-Dibromoethane (EDB)	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,2-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,3-Dichlorobenzene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,4-Dichlorobenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.026	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,1-Dichloroethane	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,2-Dichloroethane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,1-Dichloroethylene	ND	0.0052	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
cis-1,2-Dichloroethylene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
trans-1,2-Dichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,2-Dichloropropane	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
cis-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
trans-1,3-Dichloropropene	ND	0.0013	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,4-Dioxane	ND	0.13	0.075	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Ethylbenzene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
2-Hexanone (MBK)	ND	0.026	0.014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Isopropylbenzene (Cumene)	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Methyl Acetate	ND	0.0026	0.0021	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0052	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Methyl Cyclohexane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Methylene Chloride	ND	0.026	0.0092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.026	0.0098	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Styrene	ND	0.0026	0.00078	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,1,2,2-Tetrachloroethane	ND	0.0013	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Tetrachloroethylene	ND	0.0026	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Toluene	ND	0.0026	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,2,3-Trichlorobenzene	ND	0.013	0.00078	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,2,4-Trichlorobenzene	ND	0.013	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5
Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0026	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,1,2-Trichloroethane	ND	0.0026	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Trichloroethylene	ND	0.0026	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Trichlorofluoromethane (Freon 11)	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.013	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
Vinyl Chloride	ND	0.013	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
m+p Xylene	ND	0.0052	0.0022	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF
o-Xylene	ND	0.0026	0.00091	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 15:56	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	120	70-130		7/16/13 15:56
Toluene-d8	100	70-130		7/16/13 15:56
4-Bromofluorobenzene	99.5	70-130		7/16/13 15:56

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5
Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.012	mg/Kg dry	89653	2.582	1	000110-54-3	SW-846 8260C	7/15/13	7/16/13 15:56	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5 | Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.76	0.39	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Benzaldehyde	ND	0.38	0.37	mg/Kg dry	1	R-05	SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Biphenyl	ND	0.76	0.48	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Caprolactam	ND	0.38	0.29	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Acenaphthene	ND	0.19	0.096	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Acenaphthylene	ND	0.19	0.093	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Acetophenone	ND	0.38	0.093	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Benzo(a)anthracene	ND	0.19	0.087	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Benzo(a)pyrene	ND	0.19	0.068	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Benzo(b)fluoranthene	ND	0.19	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Benzo(g,h,i)perylene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Benzo(k)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Bis(2-chloroethoxy)methane	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Bis(2-chloroethyl)ether	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.086	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
4-Bromophenylphenylether	ND	0.38	0.095	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Butylbenzylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Carbazole	ND	0.19	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
4-Chloroaniline	ND	0.75	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
4-Chloro-3-methylphenol	ND	0.75	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2-Chloronaphthalene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2-Chlorophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
4-Chlorophenylphenylether	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Chrysene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Dibenzofuran	ND	0.38	0.089	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Di-n-butylphthalate	ND	0.38	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 19:14	CMR
3,3-Dichlorobenzidine	ND	0.19	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2,4-Dichlorophenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Diethylphthalate	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2,4-Dimethylphenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Dimethylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2,4-Dinitrophenol	ND	0.75	0.38	mg/Kg dry	1	V-20	SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2,4-Dinitrotoluene	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2,6-Dinitrotoluene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Di-n-octylphthalate	ND	0.76	0.53	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Fluorene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Hexachlorobenzene	ND	0.38	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Hexachlorobutadiene	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1	L-04, MS-09, V-05	SW-846 8270D	7/19/13	7/22/13 19:14	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5 | Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Isophorone	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2-Methylnaphthalene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
3/4-Methylphenol	ND	0.38	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Naphthalene	ND	0.19	0.085	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2-Nitroaniline	ND	0.38	0.27	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
3-Nitroaniline	ND	0.38	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
4-Nitroaniline	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Nitrobenzene	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2-Nitrophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
4-Nitrophenol	ND	0.75	0.67	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 19:14	CMR
N-Nitrosodiphenylamine	ND	0.38	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
N-Nitrosodi-n-propylamine	ND	0.38	0.12	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Pentachlorophenol	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Phenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.38	0.22	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2,4,5-Trichlorophenol	ND	0.38	0.20	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
2,4,6-Trichlorophenol	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR
Atrazine	ND	0.76	0.64	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	49.6	30-130		7/22/13 19:14
Phenol-d6	50.6	30-130		7/22/13 19:14
Nitrobenzene-d5	55.1	30-130		7/22/13 19:14
2-Fluorobiphenyl	54.9	30-130		7/22/13 19:14
2,4,6-Tribromophenol	69.6	30-130		7/22/13 19:14
p-Terphenyl-d14	71.7	30-130		7/22/13 19:14

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5
Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/19/13	7/22/13 19:14	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5
Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	0.71	1.1	0.64	mg/Kg dry	1	J	SW-846 8315	7/11/13	7/12/13 16:50	JMP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5
Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.3	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Beryllium	ND	0.28	0.045	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 15:44	KSH
Cadmium	0.36	0.28	0.17	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Chromium	2.2	0.56	0.14	mg/Kg dry	1	B-07	SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Copper	5.9	0.56	0.43	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 15:44	KSH
Lead	4.4	0.84	0.39	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Manganese	310	0.56	0.18	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Mercury	0.0037	0.028	0.0018	mg/Kg dry	1	J	SW-846 7471B	7/15/13	7/16/13 13:29	SAJ
Nickel	1.7	0.56	0.14	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Selenium	ND	5.6	0.87	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Silver	ND	0.56	0.49	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Thallium	ND	2.8	0.93	mg/Kg dry	1		SW-846 6010C	7/12/13	7/15/13 19:48	KSH
Zinc	27	1.1	0.29	mg/Kg dry	1	B-07	SW-846 6010C	7/12/13	7/15/13 19:48	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: HWI-5
Sampled: 7/10/2013 14:00

Sample ID: 13G0400-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.3			% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4 | Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.045	0.12	0.027	mg/Kg dry	1	J	SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Bromoform	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Carbon Disulfide	ND	0.0069	0.0038	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Carbon Tetrachloride	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Cyclohexane	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,4-Dioxane	ND	0.12	0.067	mg/Kg dry	1	V-16	SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Ethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Methyl Acetate	ND	0.0023	0.0018	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Methyl Cyclohexane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Toluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,2,3-Trichlorobenzene	ND	0.012	0.00069	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,2,4-Trichlorobenzene	ND	0.012	0.00092	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4
Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/15/13	7/16/13 16:25	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	119	70-130		7/16/13 16:25
Toluene-d8	99.5	70-130		7/16/13 16:25
4-Bromofluorobenzene	101	70-130		7/16/13 16:25

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4
Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.0075	mg/Kg dry	83330	2.584	1	000110-54-3	SW-846 8260C	7/15/13	7/16/13 16:25	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4 | Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	0.79	0.41	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Benzaldehyde	ND	0.40	0.38	mg/Kg dry	1	R-05	SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Biphenyl	ND	0.79	0.50	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Caprolactam	ND	0.40	0.30	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Acenaphthylene	ND	0.20	0.097	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Acetophenone	ND	0.40	0.097	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Benzo(a)anthracene	ND	0.20	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Benzo(a)pyrene	ND	0.20	0.071	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.40	0.090	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
4-Bromophenylphenylether	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Carbazole	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
4-Chloroaniline	ND	0.78	0.20	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
4-Chloro-3-methylphenol	ND	0.78	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2-Chloronaphthalene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
4-Chlorophenylphenylether	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Dibenzofuran	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 19:49	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Dimethylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2,4-Dinitrophenol	ND	0.78	0.40	mg/Kg dry	1	V-20	SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2,4-Dinitrotoluene	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2,6-Dinitrotoluene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Di-n-octylphthalate	ND	0.79	0.55	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Hexachlorocyclopentadiene	ND	0.40	0.27	mg/Kg dry	1	L-04, V-05	SW-846 8270D	7/19/13	7/22/13 19:49	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI | Sample Description: | Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4 | Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Naphthalene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2-Nitroaniline	ND	0.40	0.28	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
3-Nitroaniline	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
4-Nitroaniline	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
4-Nitrophenol	ND	0.78	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 19:49	CMR
N-Nitrosodiphenylamine	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
1,2,4,5-Tetrachlorobenzene	ND	0.40	0.24	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2,4,5-Trichlorophenol	ND	0.40	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR
Atrazine	ND	0.79	0.67	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 19:49	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	61.1	30-130		7/22/13 19:49
Phenol-d6	62.0	30-130		7/22/13 19:49
Nitrobenzene-d5	64.8	30-130		7/22/13 19:49
2-Fluorobiphenyl	66.0	30-130		7/22/13 19:49
2,4,6-Tribromophenol	85.2	30-130		7/22/13 19:49
p-Terphenyl-d14	88.6	30-130		7/22/13 19:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4
Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	0.26	mg/Kg dry	209222	14.521	1	000301-02-0	SW-846 8270D	7/19/13	7/22/13 19:49	CMR

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4
Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	0.75	1.2	0.68	mg/Kg dry	1	J	SW-846 8315	7/11/13	7/12/13 15:27	JMP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4
Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	2.3	mg/Kg dry	1		SW-846 6010C	7/11/13	7/16/13 18:26	KSH
Arsenic	ND	2.8	1.0	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Beryllium	ND	0.28	0.046	mg/Kg dry	1		SW-846 6010C	7/11/13	7/15/13 18:02	KSH
Cadmium	0.55	0.28	0.17	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Chromium	11	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Copper	17	0.57	0.43	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Lead	4.7	0.85	0.39	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Manganese	200	0.57	0.18	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Mercury	0.034	0.030	0.0019	mg/Kg dry	1		SW-846 7471B	7/15/13	7/16/13 13:31	SAJ
Nickel	5.0	0.57	0.14	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Selenium	ND	5.7	0.88	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Silver	ND	0.57	0.50	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Thallium	ND	2.8	0.94	mg/Kg dry	1		SW-846 6010C	7/11/13	7/12/13 13:18	OP
Zinc	32	1.1	0.29	mg/Kg dry	1	B-07	SW-846 6010C	7/11/13	7/12/13 13:18	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenior, NC HWI
Sample Description:
Work Order: 13G0400

Date Received: 7/10/2013

Field Sample #: Dup-4
Sampled: 7/10/2013 14:20

Sample ID: 13G0400-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8			% Wt	1		SM 2540G	7/15/13	7/16/13 9:40	WAL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

ASTM D516-90, 02

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-03 [HWI-3]	B076646	1.05	100	07/12/13

Prep Method: SM 4500 NO3-F-SM 18-20 4500 NO3 F

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-03 [HWI-3]	B076672	1.13	50.0	07/12/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch			Date
13G0400-02 [HWI-2]	B076761			07/15/13
13G0400-03 [HWI-3]	B076761			07/15/13
13G0400-04 [HWI-4]	B076761			07/15/13
13G0400-05 [HWI-5]	B076761			07/15/13
13G0400-06 [Dup-4]	B076761			07/15/13

SM18 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-03 [HWI-3]	B076664	1.06	100	07/12/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-06 [Dup-4]	B076506	1.06	50.0	07/11/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-02 [HWI-2]	B076591	1.02	50.0	07/12/13
13G0400-03 [HWI-3]	B076591	1.02	50.0	07/12/13
13G0400-04 [HWI-4]	B076591	1.04	50.0	07/12/13
13G0400-05 [HWI-5]	B076591	1.02	50.0	07/12/13

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-03 [HWI-3]	B076715	0.604	50.0	07/15/13
13G0400-04 [HWI-4]	B076715	0.608	50.0	07/15/13
13G0400-05 [HWI-5]	B076715	0.607	50.0	07/15/13
13G0400-06 [Dup-4]	B076715	0.610	50.0	07/15/13

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-02 [HWI-2]	B076875	0.613	50.0	07/17/13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-01 [Trip Blank]	B076754	5.00	10.0	07/15/13
13G0400-02 [HWI-2]	B076754	4.39	10.0	07/15/13
13G0400-03 [HWI-3]	B076754	5.00	10.0	07/15/13
13G0400-04 [HWI-4]	B076754	4.97	10.0	07/15/13
13G0400-05 [HWI-5]	B076754	4.42	10.0	07/15/13
13G0400-06 [Dup-4]	B076754	5.23	10.0	07/15/13

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-02 [HWI-2]	B077054	30.0	1.00	07/19/13
13G0400-03 [HWI-3]	B077054	30.1	1.00	07/19/13
13G0400-04 [HWI-4]	B077054	30.1	1.00	07/19/13
13G0400-05 [HWI-5]	B077054	30.4	1.00	07/19/13
13G0400-06 [Dup-4]	B077054	30.6	1.00	07/19/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0400-02 [HWI-2]	B076590	5.35	25.0	07/11/13
13G0400-03 [HWI-3]	B076590	5.19	25.0	07/11/13
13G0400-04 [HWI-4]	B076590	5.31	25.0	07/11/13
13G0400-05 [HWI-5]	B076590	5.12	25.0	07/11/13
13G0400-06 [Dup-4]	B076590	5.15	25.0	07/11/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076754 - SW-846 5035										
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Acetone	ND	0.10	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
Cyclohexane	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
1,4-Dioxane	ND	0.10	mg/Kg wet							V-16
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
Methyl Acetate	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methyl Cyclohexane	ND	0.0020	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13							
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0525*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0499*		mg/Kg wet	0.0500		99.7	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.0500		98.3	70-130				
LCS (B076754-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Acetone	0.190	0.10	mg/Kg wet	0.200		95.0	70-160		25		†
Benzene	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130		25		
Bromochloromethane	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130		25		
Bromodichloromethane	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Bromoform	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130		25		
Bromomethane	0.0207	0.010	mg/Kg wet	0.0200		104	40-130		25	V-20	†
2-Butanone (MEK)	0.212	0.040	mg/Kg wet	0.200		106	70-160		25		†
Carbon Disulfide	0.0240	0.0060	mg/Kg wet	0.0200		120	70-130		25		
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.7	70-130		25		
Chlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Chlorodibromomethane	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130		25		
Chloroethane	0.0227	0.020	mg/Kg wet	0.0200		114	70-130		25		
Chloroform	0.0231	0.0040	mg/Kg wet	0.0200		116	70-130		25		
Chloromethane	0.0163	0.010	mg/Kg wet	0.0200		81.5	70-130		25		
Cyclohexane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130		25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130		25		
1,2-Dichlorobenzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130		25		
1,3-Dichlorobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130		25		
1,4-Dichlorobenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0175	0.020	mg/Kg wet	0.0200		87.5	40-160		25	J	†
1,1-Dichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
1,2-Dichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130		25		
cis-1,2-Dichloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130		25		
trans-1,2-Dichloroethylene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130		25		
1,2-Dichloropropane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130		25		
cis-1,3-Dichloropropene	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130		25		
trans-1,3-Dichloropropene	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130		25		
1,4-Dioxane	0.198	0.10	mg/Kg wet	0.200		99.1	40-160		50	V-16	†
Ethylbenzene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
2-Hexanone (MBK)	0.208	0.020	mg/Kg wet	0.200		104	70-160		25		†
Isopropylbenzene (Cumene)	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Methyl Acetate	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0250	0.0040	mg/Kg wet	0.0200		125	70-130		25		
Methyl Cyclohexane	0.0246	0.0020	mg/Kg wet	0.0200		123	70-130		25		
Methylene Chloride	0.0228	0.020	mg/Kg wet	0.0200		114	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-160		25		†
Styrene	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,1,2,2-Tetrachloroethane	0.0219	0.0010	mg/Kg wet	0.0200		109	70-130		25		
Tetrachloroethylene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Toluene	0.0221	0.0020	mg/Kg wet	0.0200		111	70-130		25		
1,2,3-Trichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.5	70-130		25		
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130		25		
1,1,1-Trichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,1,2-Trichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035											
LCS (B076754-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Trichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0230	0.010	mg/Kg wet	0.0200		115	70-130		25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0257	0.010	mg/Kg wet	0.0200		129	70-130		25		
Vinyl Chloride	0.0189	0.010	mg/Kg wet	0.0200		94.5	40-130		25		†
m+p Xylene	0.0448	0.0040	mg/Kg wet	0.0400		112	70-130		25		
o-Xylene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0525*		mg/Kg wet	0.0500		105	70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0505*		mg/Kg wet	0.0500		101	70-130				
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13							
Acetone	0.183	0.10	mg/Kg wet	0.200		91.3	70-160	3.93	25		†
Benzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130	2.76	25		
Bromochloromethane	0.0247	0.0020	mg/Kg wet	0.0200		123	70-130	0.243	25		
Bromodichloromethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	1.76	25		
Bromoform	0.0168	0.0020	mg/Kg wet	0.0200		84.1	70-130	1.65	25		
Bromomethane	0.0244	0.010	mg/Kg wet	0.0200		122	40-130	16.5	25	V-20	†
2-Butanone (MEK)	0.208	0.040	mg/Kg wet	0.200		104	70-160	1.69	25		†
Carbon Disulfide	0.0240	0.0060	mg/Kg wet	0.0200		120	70-130	0.250	25		
Carbon Tetrachloride	0.0193	0.0020	mg/Kg wet	0.0200		96.6	70-130	0.103	25		
Chlorobenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-130	2.83	25		
Chlorodibromomethane	0.0194	0.0010	mg/Kg wet	0.0200		97.0	70-130	3.35	25		
Chloroethane	0.0236	0.020	mg/Kg wet	0.0200		118	70-130	3.80	25		
Chloroform	0.0224	0.0040	mg/Kg wet	0.0200		112	70-130	3.34	25		
Chloromethane	0.0164	0.010	mg/Kg wet	0.0200		81.9	70-130	0.490	25		
Cyclohexane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	0.976	25		
1,2-Dibromo-3-chloropropane (DBCP)	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	0.809	25		
1,2-Dibromoethane (EDB)	0.0215	0.0010	mg/Kg wet	0.0200		107	70-130	1.02	25		
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130	2.15	25		
1,3-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.25	25		
1,4-Dichlorobenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130	1.12	25		
Dichlorodifluoromethane (Freon 12)	0.0178	0.020	mg/Kg wet	0.0200		89.0	40-160	1.70	25	J	†
1,1-Dichloroethane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130	0.354	25		
1,2-Dichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	0.917	25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		118	70-130	0.00	25		
cis-1,2-Dichloroethylene	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130	0.618	25		
trans-1,2-Dichloroethylene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130	1.64	25		
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130	3.69	25		
cis-1,3-Dichloropropene	0.0207	0.0010	mg/Kg wet	0.0200		104	70-130	1.63	25		
trans-1,3-Dichloropropene	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130	1.95	25		
1,4-Dioxane	0.195	0.10	mg/Kg wet	0.200		97.6	40-160	1.55	50	V-16	† ‡
Ethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130	2.68	25		
2-Hexanone (MBK)	0.203	0.020	mg/Kg wet	0.200		101	70-160	2.64	25		†
Isopropylbenzene (Cumene)	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	2.10	25		
Methyl Acetate	0.0184	0.0020	mg/Kg wet	0.0200		92.0	70-130	3.21	25		
Methyl tert-Butyl Ether (MTBE)	0.0243	0.0040	mg/Kg wet	0.0200		122	70-130	2.76	25		
Methyl Cyclohexane	0.0242	0.0020	mg/Kg wet	0.0200		121	70-130	1.72	25		
Methylene Chloride	0.0231	0.020	mg/Kg wet	0.0200		116	40-160	1.48	25		†
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		107	70-160	2.06	25		†
Styrene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130	1.66	25		
1,1,2,2-Tetrachloroethane	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	2.41	25		
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130	2.13	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076754 - SW-846 5035												
LCS Dup (B076754-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13								
Toluene	0.0213	0.0020	mg/Kg wet	0.0200		107		70-130	3.77	25		
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7		70-130	1.94	25		
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.1		70-130	2.28	25		
1,1,1-Trichloroethane	0.0204	0.0020	mg/Kg wet	0.0200		102		70-130	1.27	25		
1,1,2-Trichloroethane	0.0219	0.0020	mg/Kg wet	0.0200		109		70-130	1.45	25		
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	3.24	25		
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		116		70-130	0.607	25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0264	0.010	mg/Kg wet	0.0200		**132**	*	70-130	2.46	25	L-07	
Vinyl Chloride	0.0192	0.010	mg/Kg wet	0.0200		95.9		40-130	1.47	25		†
m+p Xylene	0.0436	0.0040	mg/Kg wet	0.0400		109		70-130	2.72	25		
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130	3.96	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0538*		mg/Kg wet	0.0500		108		70-130				
Surrogate: Toluene-d8	*0.0503*		mg/Kg wet	0.0500		101		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0493*		mg/Kg wet	0.0500		98.6		70-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076754 - SW-846 5035										
Blank (B076754-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077054 - SW-846 3546										
Blank (B077054-BLK1)				Prepared: 07/19/13 Analyzed: 07/20/13						
2,3,4,6-Tetrachlorophenol	ND	0.67	mg/Kg wet							
Benzaldehyde	ND	0.34	mg/Kg wet							R-05
Biphenyl	ND	0.67	mg/Kg wet							
Caprolactam	ND	0.34	mg/Kg wet							
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							V-05
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B077054 - SW-846 3546											
Blank (B077054-BLK1)				Prepared: 07/19/13 Analyzed: 07/20/13							
3-Nitroaniline	ND	0.34	mg/Kg wet								
4-Nitroaniline	ND	0.34	mg/Kg wet								
Nitrobenzene	ND	0.34	mg/Kg wet								
2-Nitrophenol	ND	0.34	mg/Kg wet								
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05	
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet								
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet							V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet								
Phenanthrene	ND	0.17	mg/Kg wet								
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Atrazine	ND	0.67	mg/Kg wet								
Surrogate: 2-Fluorophenol	*4.72*		mg/Kg wet	6.67		70.8	30-130				
Surrogate: Phenol-d6	*4.83*		mg/Kg wet	6.67		72.4	30-130				
Surrogate: Nitrobenzene-d5	*2.51*		mg/Kg wet	3.33		75.4	30-130				
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.06*		mg/Kg wet	6.67		90.8	30-130				
Surrogate: p-Terphenyl-d14	*3.42*		mg/Kg wet	3.33		103	30-130				
LCS (B077054-BS1)				Prepared: 07/19/13 Analyzed: 07/20/13							
2,3,4,6-Tetrachlorophenol	1.31	0.67	mg/Kg wet	1.67		78.4	40-140		20		
Benzaldehyde	0.871	0.34	mg/Kg wet	1.67		52.3	40-140		20	R-05	
Biphenyl	1.35	0.67	mg/Kg wet	1.67		81.2	40-140		20		
Caprolactam	1.46	0.34	mg/Kg wet	1.67		87.6	40-140		20		
Acenaphthene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140		30		
Acenaphthylene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140		30		
Acetophenone	0.964	0.34	mg/Kg wet	1.67		57.9	40-140		30	V-05	
Anthracene	1.38	0.17	mg/Kg wet	1.67		82.7	40-140		30		
Benzo(a)anthracene	1.38	0.17	mg/Kg wet	1.67		82.7	40-140		30		
Benzo(a)pyrene	1.33	0.17	mg/Kg wet	1.67		79.8	40-140		30		
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140		30	V-05	
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140		30		
Benzo(k)fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140		30		
Bis(2-chloroethoxy)methane	1.31	0.34	mg/Kg wet	1.67		78.8	40-140		30		
Bis(2-chloroethyl)ether	1.16	0.34	mg/Kg wet	1.67		69.4	40-140		30		
Bis(2-chloroisopropyl)ether	0.992	0.34	mg/Kg wet	1.67		59.5	40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.67		73.4	40-140		30		
4-Bromophenylphenylether	1.43	0.34	mg/Kg wet	1.67		85.8	40-140		30		
Butylbenzylphthalate	1.40	0.34	mg/Kg wet	1.67		84.0	40-140		30		
Carbazole	1.53	0.17	mg/Kg wet	1.67		91.8	40-140		30		
4-Chloroaniline	0.895	0.66	mg/Kg wet	1.67		53.7	10-140		30		†
4-Chloro-3-methylphenol	1.25	0.66	mg/Kg wet	1.67		74.8	30-130		30		
2-Chloronaphthalene	1.11	0.34	mg/Kg wet	1.67		66.9	40-140		30		
2-Chlorophenol	1.09	0.34	mg/Kg wet	1.67		65.6	30-130		30		
4-Chlorophenylphenylether	1.21	0.34	mg/Kg wet	1.67		72.4	40-140		30		
Chrysene	1.42	0.17	mg/Kg wet	1.67		85.2	40-140		30		
Dibenz(a,h)anthracene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140		30		
Dibenzofuran	1.22	0.34	mg/Kg wet	1.67		73.3	40-140		30		
Di-n-butylphthalate	1.41	0.34	mg/Kg wet	1.67		84.6	40-140		30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B077054 - SW-846 3546												
LCS (B077054-BS1)				Prepared: 07/19/13 Analyzed: 07/20/13								
3,3-Dichlorobenzidine	1.18	0.17	mg/Kg wet	1.67		70.6		20-140		50		†
2,4-Dichlorophenol	1.30	0.34	mg/Kg wet	1.67		77.9		30-130		30		
Diethylphthalate	1.31	0.34	mg/Kg wet	1.67		78.8		40-140		30		
2,4-Dimethylphenol	1.30	0.34	mg/Kg wet	1.67		77.9		30-130		30		
Dimethylphthalate	1.34	0.34	mg/Kg wet	1.67		80.2		40-140		30		
4,6-Dinitro-2-methylphenol	1.40	0.34	mg/Kg wet	1.67		83.7		30-130		30		
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		64.0		30-130		30	V-06	
2,4-Dinitrotoluene	1.29	0.34	mg/Kg wet	1.67		77.1		40-140		30		
2,6-Dinitrotoluene	1.47	0.34	mg/Kg wet	1.67		88.3		40-140		30		
Di-n-octylphthalate	1.13	0.67	mg/Kg wet	1.67		67.7		40-140		30		
Fluoranthene	1.55	0.17	mg/Kg wet	1.67		92.8		40-140		30		
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.8		40-140		30		
Hexachlorobenzene	1.48	0.34	mg/Kg wet	1.67		88.5		40-140		30		
Hexachlorobutadiene	1.15	0.34	mg/Kg wet	1.67		68.9		40-140		30		
Hexachlorocyclopentadiene	0.573	0.34	mg/Kg wet	1.67		**34.4**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.980	0.34	mg/Kg wet	1.67		58.8		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	1.37	0.17	mg/Kg wet	1.67		82.2		40-140		30		
Isophorone	1.23	0.34	mg/Kg wet	1.67		74.0		40-140		30		
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140		30		
2-Methylphenol	1.09	0.34	mg/Kg wet	1.67		65.4		30-130		30		
3/4-Methylphenol	1.03	0.34	mg/Kg wet	1.67		61.6		30-130		30	V-05	
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.4		40-140		30		
2-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.8		40-140		30		
3-Nitroaniline	1.36	0.34	mg/Kg wet	1.67		81.6		30-140		30		†
4-Nitroaniline	1.16	0.34	mg/Kg wet	1.67		69.8		40-140		30		
Nitrobenzene	1.13	0.34	mg/Kg wet	1.67		67.8		40-140		30		
2-Nitrophenol	1.35	0.34	mg/Kg wet	1.67		80.8		30-130		30		
4-Nitrophenol	1.05	0.66	mg/Kg wet	1.67		62.9		30-130		50	V-05	
N-Nitrosodiphenylamine	1.66	0.34	mg/Kg wet	1.67		99.6		40-140		30		
N-Nitrosodi-n-propylamine	0.941	0.34	mg/Kg wet	1.67		56.5		40-140		30	V-05	
Pentachlorophenol	1.05	0.34	mg/Kg wet	1.67		63.0		30-130		30		
Phenanthrene	1.40	0.17	mg/Kg wet	1.67		83.8		40-140		30		
Phenol	0.968	0.34	mg/Kg wet	1.67		58.1		30-130		30		
Pyrene	1.40	0.17	mg/Kg wet	1.67		84.2		40-140		30		
1,2,4,5-Tetrachlorobenzene	1.24	0.34	mg/Kg wet	1.67		74.2		40-140		30		
2,4,5-Trichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.9		30-130		30		
2,4,6-Trichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.6		30-130		30		
Atrazine	1.29	0.67	mg/Kg wet	1.67		77.3		40-140		30		
Surrogate: 2-Fluorophenol	*4.29*		mg/Kg wet	6.67		64.3		30-130				
Surrogate: Phenol-d6	*4.09*		mg/Kg wet	6.67		61.3		30-130				
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.67*		mg/Kg wet	6.67		100		30-130				
Surrogate: p-Terphenyl-d14	*2.99*		mg/Kg wet	3.33		89.8		30-130				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B077054 - SW-846 3546													
LCS Dup (B077054-BSD1)				Prepared: 07/19/13 Analyzed: 07/20/13									
2,3,4,6-Tetrachlorophenol	1.17	0.67	mg/Kg wet	1.67		70.5		40-140	10.7		20		
Benzaldehyde	0.704	0.34	mg/Kg wet	1.67		42.2		40-140	**21.3**	*	20	R-05	
Biphenyl	1.18	0.67	mg/Kg wet	1.67		70.7		40-140	13.9		20		
Caprolactam	1.32	0.34	mg/Kg wet	1.67		79.0		40-140	10.3		20		
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140	13.9		30		
Acenaphthylene	1.12	0.17	mg/Kg wet	1.67		67.2		40-140	13.2		30		
Acetophenone	0.796	0.34	mg/Kg wet	1.67		47.8		40-140	19.1		30	V-05	
Anthracene	1.25	0.17	mg/Kg wet	1.67		75.1		40-140	9.68		30		
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.9		40-140	7.29		30		
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.9		40-140	7.65		30		
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8		40-140	12.8		30	V-05	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		67.3		40-140	15.6		30		
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.6		40-140	0.866		30		
Bis(2-chloroethoxy)methane	1.13	0.34	mg/Kg wet	1.67		67.7		40-140	15.0		30		
Bis(2-chloroethyl)ether	0.949	0.34	mg/Kg wet	1.67		56.9		40-140	19.8		30		
Bis(2-chloroisopropyl)ether	0.808	0.34	mg/Kg wet	1.67		48.5		40-140	20.5		30	V-05	
Bis(2-Ethylhexyl)phthalate	1.12	0.34	mg/Kg wet	1.67		67.3		40-140	8.78		30		
4-Bromophenylphenylether	1.31	0.34	mg/Kg wet	1.67		78.8		40-140	8.50		30		
Butylbenzylphthalate	1.29	0.34	mg/Kg wet	1.67		77.3		40-140	8.21		30		
Carbazole	1.40	0.17	mg/Kg wet	1.67		83.9		40-140	8.90		30		
4-Chloroaniline	0.813	0.66	mg/Kg wet	1.67		48.8		10-140	9.60		30		†
4-Chloro-3-methylphenol	1.11	0.66	mg/Kg wet	1.67		66.8		30-130	11.2		30		
2-Chloronaphthalene	0.987	0.34	mg/Kg wet	1.67		59.2		40-140	12.2		30		
2-Chlorophenol	0.899	0.34	mg/Kg wet	1.67		53.9		30-130	19.5		30		
4-Chlorophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	12.2		30		
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.9		40-140	10.2		30		
Dibenz(a,h)anthracene	1.23	0.17	mg/Kg wet	1.67		73.8		40-140	13.1		30		
Dibenzofuran	1.08	0.34	mg/Kg wet	1.67		64.8		40-140	12.2		30		
Di-n-butylphthalate	1.29	0.34	mg/Kg wet	1.67		77.6		40-140	8.66		30		
3,3-Dichlorobenzidine	1.10	0.17	mg/Kg wet	1.67		66.1		20-140	6.61		50		† ‡
2,4-Dichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.6		30-130	12.7		30		
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		71.0		40-140	10.4		30		
2,4-Dimethylphenol	1.15	0.34	mg/Kg wet	1.67		68.8		30-130	12.4		30		
Dimethylphthalate	1.20	0.34	mg/Kg wet	1.67		72.1		40-140	10.6		30		
4,6-Dinitro-2-methylphenol	1.35	0.34	mg/Kg wet	1.67		80.8		30-130	3.55		30		
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		63.9		30-130	0.156		30	V-06	
2,4-Dinitrotoluene	1.17	0.34	mg/Kg wet	1.67		70.0		40-140	9.65		30		
2,6-Dinitrotoluene	1.31	0.34	mg/Kg wet	1.67		78.7		40-140	11.6		30		
Di-n-octylphthalate	1.04	0.67	mg/Kg wet	1.67		62.2		40-140	8.59		30		
Fluoranthene	1.40	0.17	mg/Kg wet	1.67		84.2		40-140	9.74		30		
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.5		40-140	11.0		30		
Hexachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.4		40-140	10.9		30		
Hexachlorobutadiene	0.942	0.34	mg/Kg wet	1.67		56.5		40-140	19.8		30		
Hexachlorocyclopentadiene	0.459	0.34	mg/Kg wet	1.67		**27.5**	*	40-140	22.2		30	L-04, V-05	
Hexachloroethane	0.776	0.34	mg/Kg wet	1.67		46.5		40-140	23.3		30	V-05	
Indeno(1,2,3-cd)pyrene	1.17	0.17	mg/Kg wet	1.67		70.4		40-140	15.4		30		
Isophorone	1.06	0.34	mg/Kg wet	1.67		63.8		40-140	14.8		30		
2-Methylnaphthalene	0.928	0.17	mg/Kg wet	1.67		55.7		40-140	15.4		30		
2-Methylphenol	0.929	0.34	mg/Kg wet	1.67		55.7		30-130	16.0		30		
3/4-Methylphenol	0.864	0.34	mg/Kg wet	1.67		51.8		30-130	17.2		30	V-05	
Naphthalene	0.953	0.17	mg/Kg wet	1.67		57.2		40-140	17.8		30		
2-Nitroaniline	0.927	0.34	mg/Kg wet	1.67		55.6		40-140	13.7		30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B077054 - SW-846 3546											
LCS Dup (B077054-BSD1)				Prepared: 07/19/13 Analyzed: 07/20/13							
3-Nitroaniline	1.22	0.34	mg/Kg wet	1.67		73.1	30-140	11.0	30		†
4-Nitroaniline	1.06	0.34	mg/Kg wet	1.67		63.8	40-140	8.98	30		
Nitrobenzene	0.945	0.34	mg/Kg wet	1.67		56.7	40-140	17.8	30		
2-Nitrophenol	1.12	0.34	mg/Kg wet	1.67		67.3	30-130	18.2	30		
4-Nitrophenol	0.713	0.66	mg/Kg wet	1.67		42.8	30-130	38.1	50	V-05	‡
N-Nitrosodiphenylamine	1.51	0.34	mg/Kg wet	1.67		90.8	40-140	9.16	30		
N-Nitrosodi-n-propylamine	0.794	0.34	mg/Kg wet	1.67		47.6	40-140	17.0	30	V-05	
Pentachlorophenol	0.965	0.34	mg/Kg wet	1.67		57.9	30-130	8.34	30		
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	8.36	30		
Phenol	0.815	0.34	mg/Kg wet	1.67		48.9	30-130	17.2	30		
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140	7.16	30		
1,2,4,5-Tetrachlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.4	40-140	15.6	30		
2,4,5-Trichlorophenol	1.13	0.34	mg/Kg wet	1.67		68.1	30-130	12.2	30		
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.4	30-130	11.3	30		
Atrazine	1.17	0.67	mg/Kg wet	1.67		70.4	40-140	9.37	30		
Surrogate: 2-Fluorophenol	*3.60*		mg/Kg wet	6.67		54.1	30-130				
Surrogate: Phenol-d6	*3.54*		mg/Kg wet	6.67		53.0	30-130				
Surrogate: Nitrobenzene-d5	*1.94*		mg/Kg wet	3.33		58.2	30-130				
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/Kg wet	3.33		62.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.12*		mg/Kg wet	6.67		91.7	30-130				
Surrogate: p-Terphenyl-d14	*2.89*		mg/Kg wet	3.33		86.7	30-130				
Matrix Spike (B077054-MS1)		**Source: 13G0400-05**		Prepared: 07/19/13 Analyzed: 07/22/13							
2,3,4,6-Tetrachlorophenol	1.17	0.76	mg/Kg dry	1.90	ND	61.8	40-140		30		
Benzaldehyde	0.911	0.39	mg/Kg dry	1.90	ND	48.0	40-140		30		
Biphenyl	1.25	0.76	mg/Kg dry	1.90	ND	65.8	40-140		30		
Caprolactam	1.14	0.39	mg/Kg dry	1.90	ND	60.2	40-140		30		
Acenaphthene	1.12	0.19	mg/Kg dry	1.90	ND	59.1	40-140		30		
Acenaphthylene	1.12	0.19	mg/Kg dry	1.90	ND	59.3	40-140		30		
Acetophenone	0.858	0.39	mg/Kg dry	1.90	ND	45.2	40-140		30		
Anthracene	1.20	0.19	mg/Kg dry	1.90	ND	63.5	40-140		30		
Benzo(a)anthracene	1.21	0.19	mg/Kg dry	1.90	ND	63.5	40-140		30		
Benzo(a)pyrene	1.18	0.19	mg/Kg dry	1.90	ND	62.1	40-140		30		
Benzo(b)fluoranthene	1.04	0.19	mg/Kg dry	1.90	ND	54.9	40-140		30	V-05	
Benzo(g,h,i)perylene	1.21	0.19	mg/Kg dry	1.90	ND	63.9	40-140		30		
Benzo(k)fluoranthene	1.16	0.19	mg/Kg dry	1.90	ND	61.3	40-140		30		
Bis(2-chloroethoxy)methane	1.15	0.39	mg/Kg dry	1.90	ND	60.7	40-140		30		
Bis(2-chloroethyl)ether	0.984	0.39	mg/Kg dry	1.90	ND	51.9	40-140		30		
Bis(2-chloroisopropyl)ether	0.867	0.39	mg/Kg dry	1.90	ND	45.7	40-140		30		
Bis(2-Ethylhexyl)phthalate	1.11	0.39	mg/Kg dry	1.90	ND	58.5	40-140		30		
4-Bromophenylphenylether	1.28	0.39	mg/Kg dry	1.90	ND	67.3	40-140		30		
Butylbenzylphthalate	1.23	0.39	mg/Kg dry	1.90	ND	64.7	40-140		30		
Carbazole	1.29	0.19	mg/Kg dry	1.90	ND	68.0	40-140		30		
4-Chloroaniline	0.807	0.75	mg/Kg dry	1.90	ND	42.6	40-140		30		
4-Chloro-3-methylphenol	1.03	0.75	mg/Kg dry	1.90	ND	54.6	30-130		30		
2-Chloronaphthalene	0.954	0.39	mg/Kg dry	1.90	ND	50.3	40-140		30		
2-Chlorophenol	0.940	0.39	mg/Kg dry	1.90	ND	49.5	30-130		30		
4-Chlorophenylphenylether	1.05	0.39	mg/Kg dry	1.90	ND	55.6	40-140		30		
Chrysene	1.27	0.19	mg/Kg dry	1.90	ND	67.0	40-140		30		
Dibenz(a,h)anthracene	1.23	0.19	mg/Kg dry	1.90	ND	64.8	40-140		30		
Dibenzofuran	1.08	0.39	mg/Kg dry	1.90	ND	56.7	40-140		30		
Di-n-butylphthalate	1.23	0.39	mg/Kg dry	1.90	ND	65.1	40-140		30	V-05	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B077054 - SW-846 3546											
Matrix Spike (B077054-MS1)		**Source: 13G0400-05**		Prepared: 07/19/13 Analyzed: 07/22/13							
3,3-Dichlorobenzidine	1.10	0.19	mg/Kg dry	1.90	ND	57.9		40-140		30	
2,4-Dichlorophenol	1.08	0.39	mg/Kg dry	1.90	ND	56.7		30-130		30	
Diethylphthalate	1.10	0.39	mg/Kg dry	1.90	ND	58.0		40-140		30	
2,4-Dimethylphenol	1.19	0.39	mg/Kg dry	1.90	ND	62.9		30-130		30	
Dimethylphthalate	1.14	0.39	mg/Kg dry	1.90	ND	60.0		40-140		30	
4,6-Dinitro-2-methylphenol	1.22	0.39	mg/Kg dry	1.90	ND	64.2		30-130		30	
2,4-Dinitrophenol	1.19	0.75	mg/Kg dry	1.90	ND	62.9		30-130		30	V-06
2,4-Dinitrotoluene	1.04	0.39	mg/Kg dry	1.90	ND	54.9		40-140		30	
2,6-Dinitrotoluene	1.24	0.39	mg/Kg dry	1.90	ND	65.2		40-140		30	
Di-n-octylphthalate	1.03	0.76	mg/Kg dry	1.90	ND	54.3		40-140		30	
Fluoranthene	1.30	0.19	mg/Kg dry	1.90	ND	68.4		40-140		30	
Fluorene	1.06	0.19	mg/Kg dry	1.90	ND	56.0		40-140		30	
Hexachlorobenzene	1.32	0.39	mg/Kg dry	1.90	ND	69.8		40-140		30	
Hexachlorobutadiene	1.00	0.39	mg/Kg dry	1.90	ND	52.8		40-140		30	
Hexachlorocyclopentadiene	0.525	0.39	mg/Kg dry	1.90	ND	**27.7**	*	30-130		30	MS-09, V-05
Hexachloroethane	0.853	0.39	mg/Kg dry	1.90	ND	45.0		40-140		30	
Indeno(1,2,3-cd)pyrene	1.18	0.19	mg/Kg dry	1.90	ND	62.0		40-140		30	
Isophorone	1.05	0.39	mg/Kg dry	1.90	ND	55.2		40-140		30	
2-Methylnaphthalene	0.953	0.19	mg/Kg dry	1.90	ND	50.2		40-140		30	
2-Methylphenol	0.976	0.39	mg/Kg dry	1.90	ND	51.4		30-130		30	
3/4-Methylphenol	0.810	0.39	mg/Kg dry	1.90	ND	42.7		30-130		30	
Naphthalene	1.01	0.19	mg/Kg dry	1.90	ND	53.4		40-140		30	
2-Nitroaniline	0.923	0.39	mg/Kg dry	1.90	ND	48.7		40-140		30	
3-Nitroaniline	1.15	0.39	mg/Kg dry	1.90	ND	60.8		40-140		30	
4-Nitroaniline	1.03	0.39	mg/Kg dry	1.90	ND	54.2		40-140		30	
Nitrobenzene	1.03	0.39	mg/Kg dry	1.90	ND	54.6		40-140		30	
2-Nitrophenol	1.16	0.39	mg/Kg dry	1.90	ND	61.2		30-130		30	
4-Nitrophenol	0.863	0.75	mg/Kg dry	1.90	ND	45.5		30-130		30	V-05
N-Nitrosodiphenylamine	1.49	0.39	mg/Kg dry	1.90	ND	78.4		40-140		30	
N-Nitrosodi-n-propylamine	0.826	0.39	mg/Kg dry	1.90	ND	43.5		40-140		30	V-05
Pentachlorophenol	0.810	0.39	mg/Kg dry	1.90	ND	42.7		30-130		30	
Phenanthrene	1.23	0.19	mg/Kg dry	1.90	ND	64.7		40-140		30	
Phenol	0.817	0.39	mg/Kg dry	1.90	ND	43.1		30-130		30	
Pyrene	1.21	0.19	mg/Kg dry	1.90	ND	64.0		40-140		30	
1,2,4,5-Tetrachlorobenzene	1.11	0.39	mg/Kg dry	1.90	ND	58.4		40-140		30	
2,4,5-Trichlorophenol	1.15	0.39	mg/Kg dry	1.90	ND	60.8		30-130		30	
2,4,6-Trichlorophenol	1.09	0.39	mg/Kg dry	1.90	ND	57.5		30-130		30	
Atrazine	1.07	0.76	mg/Kg dry	1.90	ND	56.3		40-140		30	
Surrogate: 2-Fluorophenol	*3.94*		mg/Kg dry	7.59		52.0		30-130			
Surrogate: Phenol-d6	*3.66*		mg/Kg dry	7.59		48.2		30-130			
Surrogate: Nitrobenzene-d5	*2.09*		mg/Kg dry	3.79		55.2		30-130			
Surrogate: 2-Fluorobiphenyl	*2.22*		mg/Kg dry	3.79		58.5		30-130			
Surrogate: 2,4,6-Tribromophenol	*5.53*		mg/Kg dry	7.59		72.9		30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg dry	3.79		71.7		30-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B077054 - SW-846 3546											
Matrix Spike Dup (B077054-MSD1)		**Source: 13G0400-05**		Prepared: 07/19/13 Analyzed: 07/22/13							
2,3,4,6-Tetrachlorophenol	0.943	0.76	mg/Kg dry	1.90	ND	49.7		40-140	21.7	30	
Benzaldehyde	0.757	0.39	mg/Kg dry	1.90	ND	**39.9**	*	40-140	18.4	30	MS-22
Biphenyl	1.08	0.76	mg/Kg dry	1.90	ND	56.8		40-140	14.7	30	
Caprolactam	0.984	0.39	mg/Kg dry	1.90	ND	51.9		40-140	14.9	30	
Acenaphthene	0.953	0.19	mg/Kg dry	1.90	ND	50.2		40-140	16.2	30	
Acenaphthylene	0.952	0.19	mg/Kg dry	1.90	ND	50.2		40-140	16.6	30	
Acetophenone	0.721	0.39	mg/Kg dry	1.90	ND	**38.0**	*	40-140	17.3	30	MS-22
Anthracene	1.02	0.19	mg/Kg dry	1.90	ND	53.6		40-140	16.8	30	
Benzo(a)anthracene	1.04	0.19	mg/Kg dry	1.90	ND	54.7		40-140	15.0	30	
Benzo(a)pyrene	0.991	0.19	mg/Kg dry	1.90	ND	52.3		40-140	17.2	30	
Benzo(b)fluoranthene	0.885	0.19	mg/Kg dry	1.90	ND	46.7		40-140	16.1	30	V-05
Benzo(g,h,i)perylene	1.04	0.19	mg/Kg dry	1.90	ND	54.9		40-140	15.2	30	
Benzo(k)fluoranthene	1.00	0.19	mg/Kg dry	1.90	ND	52.8		40-140	14.9	30	
Bis(2-chloroethoxy)methane	0.939	0.39	mg/Kg dry	1.90	ND	49.5		40-140	20.2	30	
Bis(2-chloroethyl)ether	0.809	0.39	mg/Kg dry	1.90	ND	42.7		40-140	19.4	30	
Bis(2-chloroisopropyl)ether	0.710	0.39	mg/Kg dry	1.90	ND	**37.4**	*	40-140	20.0	30	MS-22
Bis(2-Ethylhexyl)phthalate	0.944	0.39	mg/Kg dry	1.90	ND	49.8		40-140	16.1	30	
4-Bromophenylphenylether	1.07	0.39	mg/Kg dry	1.90	ND	56.6		40-140	17.3	30	
Butylbenzylphthalate	1.03	0.39	mg/Kg dry	1.90	ND	54.6		40-140	17.1	30	
Carbazole	1.05	0.19	mg/Kg dry	1.90	ND	55.6		40-140	20.0	30	
4-Chloroaniline	0.745	0.75	mg/Kg dry	1.90	ND	**39.3**	*	40-140	8.07	30	J, MS-22
4-Chloro-3-methylphenol	0.852	0.75	mg/Kg dry	1.90	ND	44.9		30-130	19.4	30	
2-Chloronaphthalene	0.835	0.39	mg/Kg dry	1.90	ND	44.0		40-140	13.3	30	
2-Chlorophenol	0.787	0.39	mg/Kg dry	1.90	ND	41.5		30-130	17.6	30	
4-Chlorophenylphenylether	0.881	0.39	mg/Kg dry	1.90	ND	46.5		40-140	17.9	30	
Chrysene	1.08	0.19	mg/Kg dry	1.90	ND	57.2		40-140	15.8	30	
Dibenz(a,h)anthracene	1.04	0.19	mg/Kg dry	1.90	ND	54.6		40-140	17.0	30	
Dibenzofuran	0.914	0.39	mg/Kg dry	1.90	ND	48.2		40-140	16.2	30	
Di-n-butylphthalate	0.991	0.39	mg/Kg dry	1.90	ND	52.2		40-140	21.9	30	V-05
3,3-Dichlorobenzidine	1.01	0.19	mg/Kg dry	1.90	ND	53.5		40-140	7.87	30	
2,4-Dichlorophenol	0.904	0.39	mg/Kg dry	1.90	ND	47.7		30-130	17.4	30	
Diethylphthalate	0.880	0.39	mg/Kg dry	1.90	ND	46.4		40-140	22.2	30	
2,4-Dimethylphenol	0.995	0.39	mg/Kg dry	1.90	ND	52.5		30-130	18.2	30	
Dimethylphthalate	0.942	0.39	mg/Kg dry	1.90	ND	49.7		40-140	18.8	30	
4,6-Dinitro-2-methylphenol	1.07	0.39	mg/Kg dry	1.90	ND	56.6		30-130	12.6	30	
2,4-Dinitrophenol	1.04	0.75	mg/Kg dry	1.90	ND	55.0		30-130	13.4	30	V-06
2,4-Dinitrotoluene	0.854	0.39	mg/Kg dry	1.90	ND	45.0		40-140	19.8	30	
2,6-Dinitrotoluene	1.01	0.39	mg/Kg dry	1.90	ND	53.5		40-140	19.6	30	
Di-n-octylphthalate	0.875	0.76	mg/Kg dry	1.90	ND	46.1		40-140	16.3	30	
Fluoranthene	1.01	0.19	mg/Kg dry	1.90	ND	53.3		40-140	24.9	30	
Fluorene	0.895	0.19	mg/Kg dry	1.90	ND	47.2		40-140	17.2	30	
Hexachlorobenzene	1.11	0.39	mg/Kg dry	1.90	ND	58.4		40-140	17.9	30	
Hexachlorobutadiene	0.812	0.39	mg/Kg dry	1.90	ND	42.8		40-140	21.0	30	
Hexachlorocyclopentadiene	0.502	0.39	mg/Kg dry	1.90	ND	**26.5**	*	30-130	4.43	30	MS-09, V-05
Hexachloroethane	0.694	0.39	mg/Kg dry	1.90	ND	**36.6**	*	40-140	20.5	30	MS-22
Indeno(1,2,3-cd)pyrene	0.992	0.19	mg/Kg dry	1.90	ND	52.3		40-140	16.9	30	
Isophorone	0.870	0.39	mg/Kg dry	1.90	ND	45.9		40-140	18.6	30	
2-Methylnaphthalene	0.792	0.19	mg/Kg dry	1.90	ND	41.8		40-140	18.4	30	
2-Methylphenol	0.820	0.39	mg/Kg dry	1.90	ND	43.3		30-130	17.3	30	
3/4-Methylphenol	0.672	0.39	mg/Kg dry	1.90	ND	35.5		30-130	18.5	30	
Naphthalene	0.847	0.19	mg/Kg dry	1.90	ND	44.6		40-140	17.8	30	
2-Nitroaniline	0.794	0.39	mg/Kg dry	1.90	ND	41.9		40-140	15.0	30	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B077054 - SW-846 3546											
Matrix Spike Dup (B077054-MSD1)		**Source: 13G0400-05**		Prepared: 07/19/13 Analyzed: 07/22/13							
3-Nitroaniline	1.02	0.39	mg/Kg dry	1.90	ND	53.9		40-140	12.1	30	
4-Nitroaniline	0.858	0.39	mg/Kg dry	1.90	ND	45.3		40-140	17.9	30	
Nitrobenzene	0.872	0.39	mg/Kg dry	1.90	ND	46.0		40-140	17.1	30	
2-Nitrophenol	0.974	0.39	mg/Kg dry	1.90	ND	51.3		30-130	17.5	30	
4-Nitrophenol	0.720	0.75	mg/Kg dry	1.90	ND	37.9		30-130	18.1	30	J, V-05
N-Nitrosodiphenylamine	1.29	0.39	mg/Kg dry	1.90	ND	68.1		40-140	14.1	30	
N-Nitrosodi-n-propylamine	0.684	0.39	mg/Kg dry	1.90	ND	**36.1**	*	40-140	18.8	30	V-05, MS-22
Pentachlorophenol	0.607	0.39	mg/Kg dry	1.90	ND	32.0		30-130	28.6	30	
Phenanthrene	1.03	0.19	mg/Kg dry	1.90	ND	54.4		40-140	17.3	30	
Phenol	0.687	0.39	mg/Kg dry	1.90	ND	36.2		30-130	17.3	30	
Pyrene	1.05	0.19	mg/Kg dry	1.90	ND	55.6		40-140	14.1	30	
1,2,4,5-Tetrachlorobenzene	0.954	0.39	mg/Kg dry	1.90	ND	50.3		40-140	14.8	30	
2,4,5-Trichlorophenol	0.958	0.39	mg/Kg dry	1.90	ND	50.5		30-130	18.4	30	
2,4,6-Trichlorophenol	0.919	0.39	mg/Kg dry	1.90	ND	48.5		30-130	17.1	30	
Atrazine	0.843	0.76	mg/Kg dry	1.90	ND	44.5		40-140	23.5	30	
Surrogate: 2-Fluorophenol	*3.34*		mg/Kg dry	7.59		44.0		30-130			
Surrogate: Phenol-d6	*3.15*		mg/Kg dry	7.59		41.5		30-130			
Surrogate: Nitrobenzene-d5	*1.80*		mg/Kg dry	3.79		47.6		30-130			
Surrogate: 2-Fluorobiphenyl	*1.97*		mg/Kg dry	3.79		51.9		30-130			
Surrogate: 2,4,6-Tribromophenol	*4.53*		mg/Kg dry	7.59		59.7		30-130			
Surrogate: p-Terphenyl-d14	*2.39*		mg/Kg dry	3.79		63.1		30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077054 - SW-846 3546										
Blank (B077054-BLK1)				Prepared: 07/19/13 Analyzed: 07/20/13						
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076590 - SW-846 8315										
Blank (B076590-BLK1)				Prepared: 07/11/13	Analyzed: 07/12/13					
Formaldehyde	ND	0.95	mg/Kg wet							
LCS (B076590-BS1)				Prepared: 07/11/13	Analyzed: 07/12/13					
Formaldehyde	5.19	0.96	mg/Kg wet	4.80		108	39-153		40	
Matrix Spike (B076590-MS1)		**Source: 13G0400-04**		Prepared: 07/11/13	Analyzed: 07/12/13					
Formaldehyde	7.12	1.2	mg/Kg dry	5.87	0.796	108	39-153		40	
Matrix Spike Dup (B076590-MSD1)		**Source: 13G0400-04**		Prepared: 07/11/13	Analyzed: 07/12/13					
Formaldehyde	7.13	1.2	mg/Kg dry	5.85	0.796	108	39-153	0.138	40	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076506 - SW-846 3050B										
Blank (B076506-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Zinc	0.28	1.0	mg/Kg wet							J, B
LCS (B076506-BS1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Antimony	92.1	5.0	mg/Kg wet	106		86.9	8.2-218.9		30	
Arsenic	178	5.0	mg/Kg wet	182		97.7	83-117.6		30	
Beryllium	97.5	0.50	mg/Kg wet	98.3		99.2	83.9-116		30	
Cadmium	62.5	0.50	mg/Kg wet	60.4		104	83.1-116.9		30	
Chromium	123	1.0	mg/Kg wet	125		98.3	81.6-117.6		30	
Copper	80.4	1.0	mg/Kg wet	80.1		100	83.8-116.1		30	
Lead	115	1.5	mg/Kg wet	136		84.4	82.4-117.8		30	
Manganese	267	1.0	mg/Kg wet	279		95.7	82.8-117.5		30	
Nickel	125	1.0	mg/Kg wet	128		97.3	84.4-115.6		30	
Selenium	87.7	10	mg/Kg wet	85.9		102	80-120		30	
Silver	57.4	1.0	mg/Kg wet	61.3		93.7	66.2-133.8		30	
Thallium	138	5.0	mg/Kg wet	144		95.5	81.2-118.8		30	
Zinc	195	2.0	mg/Kg wet	204		95.7	81.9-117.6		30	
LCS Dup (B076506-BSD1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Antimony	98.4	5.0	mg/Kg wet	106		92.8	8.2-218.9	6.60	30	
Arsenic	187	5.0	mg/Kg wet	182		103	83-117.6	4.84	30	
Beryllium	104	0.50	mg/Kg wet	98.3		106	83.9-116	6.38	30	
Cadmium	63.9	0.50	mg/Kg wet	60.4		106	83.1-116.9	2.24	30	
Chromium	128	1.0	mg/Kg wet	125		102	81.6-117.6	3.80	30	
Copper	82.4	1.0	mg/Kg wet	80.1		103	83.8-116.1	2.42	30	
Lead	119	1.5	mg/Kg wet	136		87.7	82.4-117.8	3.85	30	
Manganese	282	1.0	mg/Kg wet	279		101	82.8-117.5	5.42	30	
Nickel	128	1.0	mg/Kg wet	128		99.6	84.4-115.6	2.40	30	
Selenium	92.7	10	mg/Kg wet	85.9		108	80-120	5.47	30	
Silver	58.8	1.0	mg/Kg wet	61.3		95.9	66.2-133.8	2.30	30	
Thallium	142	5.0	mg/Kg wet	144		98.6	81.2-118.8	3.18	30	
Zinc	201	2.0	mg/Kg wet	204		98.6	81.9-117.6	2.99	30	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076506 - SW-846 3050B										
MRL Check (B076506-MRL1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Lead	0.783	0.72	mg/Kg wet	0.718		109	80-120			
Batch B076591 - SW-846 3050B										
Blank (B076591-BLK1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	0.14	0.50	mg/Kg wet							J, B
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Zinc	0.39	1.0	mg/Kg wet							J, B
LCS (B076591-BS1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Antimony	96.0	5.0	mg/Kg wet	106		90.6	8.2-218.9		30	
Arsenic	190	5.0	mg/Kg wet	182		105	83-117.6		30	
Beryllium	107	0.50	mg/Kg wet	98.3		109	83.9-116		30	
Cadmium	63.9	0.50	mg/Kg wet	60.4		106	83.1-116.9		30	
Chromium	132	1.0	mg/Kg wet	125		105	81.6-117.6		30	
Copper	87.8	1.0	mg/Kg wet	80.1		110	83.8-116.1		30	
Lead	132	1.5	mg/Kg wet	136		97.3	82.4-117.8		30	
Manganese	287	1.0	mg/Kg wet	279		103	82.8-117.5		30	
Nickel	130	1.0	mg/Kg wet	128		102	84.4-115.6		30	
Selenium	90.0	10	mg/Kg wet	85.9		105	80-120		30	
Silver	56.3	1.0	mg/Kg wet	61.3		91.8	66.2-133.8		30	
Thallium	141	5.0	mg/Kg wet	144		97.9	81.2-118.8		30	
Zinc	206	2.0	mg/Kg wet	204		101	81.9-117.6		30	
LCS Dup (B076591-BSD1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Antimony	99.0	5.0	mg/Kg wet	106		93.4	8.2-218.9	3.11	30	
Arsenic	185	5.0	mg/Kg wet	182		102	83-117.6	2.64	30	
Beryllium	104	0.50	mg/Kg wet	98.3		106	83.9-116	3.04	30	
Cadmium	61.5	0.50	mg/Kg wet	60.4		102	83.1-116.9	3.83	30	
Chromium	129	1.0	mg/Kg wet	125		103	81.6-117.6	2.32	30	
Copper	85.1	1.0	mg/Kg wet	80.1		106	83.8-116.1	3.08	30	
Lead	129	1.5	mg/Kg wet	136		94.9	82.4-117.8	2.59	30	
Manganese	277	1.0	mg/Kg wet	279		99.4	82.8-117.5	3.41	30	
Nickel	127	1.0	mg/Kg wet	128		99.0	84.4-115.6	2.87	30	
Selenium	86.7	10	mg/Kg wet	85.9		101	80-120	3.75	30	
Silver	55.1	1.0	mg/Kg wet	61.3		89.9	66.2-133.8	2.04	30	
Thallium	139	5.0	mg/Kg wet	144		96.3	81.2-118.8	1.69	30	
Zinc	199	2.0	mg/Kg wet	204		97.7	81.9-117.6	3.08	30	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076591 - SW-846 3050B										
MRL Check (B076591-MRL1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Lead	0.768	0.74	mg/Kg wet	0.741		104	80-120			
Batch B076715 - SW-846 7471										
Blank (B076715-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Mercury	ND	0.025	mg/Kg wet							
LCS (B076715-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Mercury	4.22	0.33	mg/Kg wet	4.05		104	71.6-128.1		30	
LCS Dup (B076715-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Mercury	4.26	0.33	mg/Kg wet	4.05		105	71.6-128.1	0.938	30	
Batch B076875 - SW-846 7471										
Blank (B076875-BLK1)				Prepared & Analyzed: 07/17/13						
Mercury	ND	0.025	mg/Kg wet							
LCS (B076875-BS1)				Prepared & Analyzed: 07/17/13						
Mercury	3.95	0.33	mg/Kg wet	4.05		97.5	71.6-128.1		30	
LCS Dup (B076875-BSD1)				Prepared & Analyzed: 07/17/13						
Mercury	3.60	0.33	mg/Kg wet	4.05		88.9	71.6-128.1	9.19	30	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076646 - ASTM D516-90, 02										
Blank (B076646-BLK1)				Prepared & Analyzed: 07/12/13						
Sulfate	ND	200	mg/Kg wet							
LCS (B076646-BS1)				Prepared & Analyzed: 07/12/13						
Sulfate	2000	200	mg/Kg wet	2000		101	80.5-116		11	
LCS Dup (B076646-BSD1)				Prepared & Analyzed: 07/12/13						
Sulfate	2100	200	mg/Kg wet	2000		104	80.5-116	2.39	11	
Duplicate (B076646-DUP1)		**Source: 13G0400-03**		Prepared & Analyzed: 07/12/13						
Sulfate	ND	230	mg/Kg dry		ND			NC	28.1	
Matrix Spike (B076646-MS1)		**Source: 13G0400-03**		Prepared & Analyzed: 07/12/13						
Sulfate	2400	230	mg/Kg dry	2300	ND	106	44-141		20	
Batch B076664 - SM18 4500 NH3 C										
Blank (B076664-BLK1)				Prepared & Analyzed: 07/12/13						
Ammonia as N	ND	20	mg/Kg wet							
LCS (B076664-BS1)				Prepared & Analyzed: 07/12/13						
Ammonia as N	480	20	mg/Kg wet	500		95.7	87-104		5.54	
LCS Dup (B076664-BSD1)				Prepared & Analyzed: 07/12/13						
Ammonia as N	490	20	mg/Kg wet	500		97.2	87-104	1.56	5.54	
Duplicate (B076664-DUP1)		**Source: 13G0400-03**		Prepared & Analyzed: 07/12/13						
Ammonia as N	37	22	mg/Kg dry		42			13.7	25.5	
Matrix Spike (B076664-MS1)		**Source: 13G0400-03**		Prepared & Analyzed: 07/12/13						
Ammonia as N	240	24	mg/Kg dry	236	42	82.9	69.5-106		20	
Batch B076672 - SM 4500 NO3-F										
Blank (B076672-BLK1)				Prepared & Analyzed: 07/12/13						
Nitrate as N	ND	0.25	mg/Kg wet							
LCS (B076672-BS1)				Prepared & Analyzed: 07/12/13						
Nitrate as N	5.0		mg/Kg	4.78		104	92.8-107		3.97	
LCS Dup (B076672-BSD1)				Prepared & Analyzed: 07/12/13						
Nitrate as N	4.8		mg/Kg	4.78		101	92.8-107	2.66	3.97	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B076672 - SM 4500 NO3-F											
Duplicate (B076672-DUP1)		**Source: 13G0400-03**		Prepared & Analyzed: 07/12/13							
Nitrate as N	7.4	3.0	mg/Kg dry		20			**90.5**	*	30.4	R-07
Matrix Spike (B076672-MS1)		**Source: 13G0400-03**		Prepared & Analyzed: 07/12/13							
Nitrate as N	230	2.7	mg/Kg dry	215	20	99.1	77.7-122			20	
Batch B076761 - % Solids											
Duplicate (B076761-DUP1)		**Source: 13G0400-02**		Prepared: 07/15/13 Analyzed: 07/16/13							
% Solids	89.0		% Wt		90.0			1.12		20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-09	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
R-07	Sample and corresponding duplicate results reflect apparent non-homogeneity of sample.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

MFT	Michael F. Thomas
CMF	Chris M. Foley
CMR	Catherine M. Rouleau
EW	Edwin William
JMP	Jessica M. Pace
KSH	Karen S. Hawks
ALB	Aaron L. Benoit
MFF	Mark F. Flahive
WAL	William A. Luchini
MJH	Matthew J. Hammond
OP	Ornela Piluri
PEB	Paula E. Blakeborough
SAJ	Shamika A. Johnson
VAK	Victoria A. Kimberely
VLA	Vanessa L. Ard
LAW	Lisa A. Worthington

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
1,4-Dioxane	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methyl Cyclohexane	NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acetophenone	NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrotoluene	CT,NY,NH,ME,NC,VA
2,6-Dinitrotoluene	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
2-Nitroaniline	CT,NY,NH,ME,NC,VA
3-Nitroaniline	CT,NY,NH,ME,NC,VA
4-Nitroaniline	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,5-Trichlorophenol	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
Atrazine	ME,NC
2-Fluorophenol	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8315 in Soil	
Formaldehyde	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0400

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: HWI
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	TCL VOC & 10 largest non-target peaks (TICs) (SW-846 8260B)	TCL SVOC & 10 largest non-target peaks (TICs) (SW-846 8270D)	Formaldehyde (SW-846 8315A)	Metals[1] (SW-846 6010C/7471B)	Ammonia (EPA 350.1) SM 4500 C	Nitrate (SM 4500 NO3 A) + Sulfate (ASTM D516)			Comments
01	Trip Blank	-	-	Lab	S	3	2	1				x								
02	HWI-2	7/10/13	1300	BM	S	5	2	1			2	x	x	x	x					
03	HWI-3		1320		S	5	2	1			2	x	x	x	x	X	X			
04	HWI-4		1340		S	5	2	1			2	x	x	x	x					
05	HWI-5		1400		S	5	2	1			2	x	x	x	x					
06	Dup-4		1420		S	5	2	1			2	x	x	x	x					
					S	5	2	1			2	x	x	x	x					
					S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).
(1) Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc
VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BM	7/10/13 1800 ~~BM 6/27/2013 14:20~~	1 Fed-X	2	7.11.13 9:23	2 Paula
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applicable ☐	On Ice: ☐

07-11-13 10:41 IN

FedEx

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by P BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013 - Thursday		
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013 - Wednesday		
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON NJ
3:02 pm	Shipment information sent to FedEx	

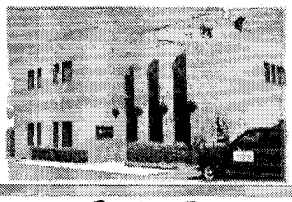
Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.11.13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Log M

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	5
500 mL Amber		4 oz amber/clear jar	5
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	23	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials:	# HCl _____	# Methanol 11	Time and Date Frozen:
Doc# 277	# Bisulfate _____	# DI Water 12	07-11-13 10:41 IN
Rev. 3 May 2012	# Thiosulfate _____	Unpreserved _____	

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC Fuel Oil UST
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0401

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0401

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC Fuel Oil UST

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0401-01	Trip Blank Water		EPA 602	
MW-1	13G0401-02	Ground Water		EPA 602	
				EPA 625	
				MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SW-846 6010C	
Dup-1	13G0401-03	Ground Water		EPA 602	
				EPA 625	
				MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SW-846 6010C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076663-BS1	B076663-BSD1
C9-C18	103%	93%
C19-C36	99%	91%
C11-C22	95%	95%

VPH	B076725-BS1	B076725-BSD1
C9-C10	74%	74%

EPA 625

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

13G0401-02[MW-1], 13G0401-03[Dup-1], B076711-BLK1, B076711-BS1, B076711-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzo(g,h,i)perylene, Hexachlorocyclopentadiene

13G0401-02[MW-1], 13G0401-03[Dup-1], B076711-BLK1, B076711-BS1, B076711-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0401-02[MW-1], 13G0401-03[Dup-1], B076711-BLK1, B076711-BS1, B076711-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Benzoic Acid

B076711-BLK1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST
Sample Description:
Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: Trip Blank
Sampled: 7/10/2013 00:00

Sample ID: 13G0401-01

Sample Matrix: Trip Blank Water

Volatile Organic Compounds by GC

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH
Chlorobenzene	ND	1.0	0.080	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH
1,2-Dichlorobenzene	ND	1.0	0.070	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH
1,3-Dichlorobenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH
1,4-Dichlorobenzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH
Ethylbenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH
Toluene	ND	1.0	0.27	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH
m+p Xylene	ND	2.0	0.19	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH
o-Xylene	ND	1.0	0.080	µg/L	1		EPA 602	7/18/13	7/18/13 16:22	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1-Chloro-3-fluorobenzene	105	63.6-127		7/18/13 16:22

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: MW-1 | Sampled: 7/10/2013 18:00

Sample ID: 13G0401-02

Sample Matrix: Ground Water

Volatile Organic Compounds by GC

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	0.44	1.0	0.040	µg/L	1	J	EPA 602	7/18/13	7/19/13 6:40	EEH
Chlorobenzene	0.44	1.0	0.080	µg/L	1	J	EPA 602	7/18/13	7/19/13 6:40	EEH
1,2-Dichlorobenzene	ND	1.0	0.070	µg/L	1		EPA 602	7/18/13	7/19/13 6:40	EEH
1,3-Dichlorobenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/19/13 6:40	EEH
1,4-Dichlorobenzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/19/13 6:40	EEH
Ethylbenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/19/13 6:40	EEH
Toluene	ND	1.0	0.27	µg/L	1		EPA 602	7/18/13	7/19/13 6:40	EEH
m+p Xylene	ND	2.0	0.19	µg/L	1		EPA 602	7/18/13	7/19/13 6:40	EEH
o-Xylene	ND	1.0	0.080	µg/L	1		EPA 602	7/18/13	7/19/13 6:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1-Chloro-3-fluorobenzene	83.4	63.6-127		7/19/13 6:40

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: MW-1 | Sampled: 7/10/2013 18:00

Sample ID: 13G0401-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Acenaphthylene	ND	5.0	3.4	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Anthracene	ND	5.0	2.7	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Benzo(a)anthracene	ND	5.0	2.5	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Benzo(a)pyrene	ND	5.0	2.2	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Benzo(b)fluoranthene	ND	5.0	2.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Benzo(g,h,i)perylene	ND	5.0	3.5	µg/L	1	V-05	EPA 625	7/13/13	7/23/13 0:48	CMR
Benzo(k)fluoranthene	ND	5.0	3.0	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
4-Bromophenylphenylether	ND	10	3.3	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Butylbenzylphthalate	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
4-Chloro-3-methylphenol	ND	10	7.1	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Benzoic Acid	ND	10	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Bis(2-chloroethoxy)methane	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Bis(2-chloroethyl)ether	ND	10	5.7	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Bis(2-chloroisopropyl)ether	ND	10	7.3	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2-Chloronaphthalene	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2-Chlorophenol	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
4-Chlorophenylphenylether	ND	10	4.5	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Chrysene	ND	5.0	2.7	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
4-Chloroaniline	ND	10	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Dibenz(a,h)anthracene	ND	5.0	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Di-n-butylphthalate	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
1,3-Dichlorobenzene	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
1,4-Dichlorobenzene	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
1,2-Dichlorobenzene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
3,3-Dichlorobenzidine	ND	10	3.7	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2,4-Dichlorophenol	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Dibenzofuran	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Diethylphthalate	ND	10	5.4	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2,4-Dimethylphenol	ND	10	5.0	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Dimethylphthalate	ND	10	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
4,6-Dinitro-2-methylphenol	ND	10	7.4	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2,4-Dinitrophenol	ND	10	4.6	µg/L	1	V-19	EPA 625	7/13/13	7/23/13 0:48	CMR
Di-n-octylphthalate	ND	10	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Fluoranthene	ND	5.0	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Fluorene	ND	5.0	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Hexachlorobenzene	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Hexachlorobutadiene	ND	10	3.3	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Hexachlorocyclopentadiene	ND	10	5.6	µg/L	1	L-04	EPA 625	7/13/13	7/23/13 0:48	CMR
Hexachloroethane	ND	10	4.2	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Isophorone	ND	10	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: MW-1 | Sampled: 7/10/2013 18:00

Sample ID: 13G0401-02

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Nitrobenzene	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2-Nitrophenol	ND	10	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
4-Nitrophenol	ND	10	4.3	µg/L	1	V-05	EPA 625	7/13/13	7/23/13 0:48	CMR
N-Nitrosodiphenylamine	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
N-Nitrosodi-n-propylamine	ND	10	5.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
1-Methylnaphthalene	ND	5.0	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Pentachlorophenol	ND	10	3.4	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2-Methylnaphthalene	ND	5.0	4.1	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Phenanthrene	ND	5.0	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2-Methylphenol	ND	10	5.6	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Phenol	ND	10	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
3/4-Methylphenol	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
Pyrene	ND	5.0	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
1,2,4-Trichlorobenzene	ND	5.0	3.1	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR
2,4,6-Trichlorophenol	ND	10	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 0:48	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	41.2	15-110		7/23/13 0:48
Phenol-d6	29.4	15-110		7/23/13 0:48
Nitrobenzene-d5	59.6	30-130		7/23/13 0:48
2-Fluorobiphenyl	68.6	30-130		7/23/13 0:48
2,4,6-Tribromophenol	86.8	15-110		7/23/13 0:48
p-Terphenyl-d14	88.6	30-130		7/23/13 0:48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST
Sample Description:
Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: MW-1
Sampled: 7/10/2013 18:00

Sample ID: 13G0401-02

Sample Matrix: Ground Water

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene, 2,6-dimethyl-	5.1	µg/L	128425	6.842	1	000581-42-0	EPA 625	7/13/13	7/23/13 0:48	CMR
Pentadecane, 2,6,10,14-tetr...	8.7	µg/L	199145	9.062	1	001921-70-6	EPA 625	7/13/13	7/23/13 0:48	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: MW-1 | Sampled: 7/10/2013 18:00

Sample ID: 13G0401-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	340	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
C19-C36 Aliphatics	1700	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Unadjusted C11-C22 Aromatics	780	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
C11-C22 Aromatics	780	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Acenaphthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Acenaphthylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Chrysene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Fluorene	2.2	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Naphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Phenanthrene	2.2	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS
Pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:11	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.1	40-140		7/15/13 22:11
o-Terphenyl (OTP)	98.4	40-140		7/15/13 22:11
2-Bromonaphthalene	110	40-140		7/15/13 22:11
2-Fluorobiphenyl	117	40-140		7/15/13 22:11

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: MW-1 | Sampled: 7/10/2013 18:00

Sample ID: 13G0401-02

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
Unadjusted C9-C12 Aliphatics	130	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
C9-C10 Aromatics	110	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:05	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	95.3	70-130		7/15/13 21:05
2,5-Dibromotoluene (PID)	104	70-130		7/15/13 21:05

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST
Sample Description:
Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: MW-1
Sampled: 7/10/2013 18:00

Sample ID: 13G0401-02

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	7.4	10	3.4	µg/L	1	J	SW-846 6010C	7/11/13	7/12/13 14:21	OP
Lead	5.5	10	2.7	µg/L	1	J	SW-846 6010C	7/11/13	7/12/13 19:15	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST
Sample Description:
Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: Dup-1
Sampled: 7/10/2013 18:10

Sample ID: 13G0401-03

Sample Matrix: Ground Water

Volatile Organic Compounds by GC

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH
Chlorobenzene	ND	1.0	0.080	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH
1,2-Dichlorobenzene	ND	1.0	0.070	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH
1,3-Dichlorobenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH
1,4-Dichlorobenzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH
Ethylbenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH
Toluene	ND	1.0	0.27	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH
m+p Xylene	ND	2.0	0.19	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH
o-Xylene	ND	1.0	0.080	µg/L	1		EPA 602	7/18/13	7/19/13 7:23	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1-Chloro-3-fluorobenzene	83.5	63.6-127		7/19/13 7:23

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: Dup-1 | Sampled: 7/10/2013 18:10

Sample ID: 13G0401-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Acenaphthylene	ND	5.0	3.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Anthracene	ND	5.0	2.7	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Benzo(a)anthracene	ND	5.0	2.5	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Benzo(a)pyrene	ND	5.0	2.2	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Benzo(b)fluoranthene	ND	5.0	2.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Benzo(g,h,i)perylene	ND	5.0	3.5	µg/L	1	V-05	EPA 625	7/13/13	7/23/13 1:19	CMR
Benzo(k)fluoranthene	ND	5.0	3.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
4-Bromophenylphenylether	ND	10	3.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Butylbenzylphthalate	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
4-Chloro-3-methylphenol	ND	10	7.1	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Benzoic Acid	ND	10	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Bis(2-chloroethoxy)methane	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Bis(2-chloroethyl)ether	ND	10	5.7	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Bis(2-chloroisopropyl)ether	ND	10	7.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2-Chloronaphthalene	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2-Chlorophenol	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
4-Chlorophenylphenylether	ND	10	4.5	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Chrysene	ND	5.0	2.7	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
4-Chloroaniline	ND	10	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Dibenz(a,h)anthracene	ND	5.0	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Di-n-butylphthalate	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
1,3-Dichlorobenzene	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
1,4-Dichlorobenzene	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
1,2-Dichlorobenzene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
3,3-Dichlorobenzidine	ND	10	3.7	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2,4-Dichlorophenol	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Dibenzofuran	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Diethylphthalate	ND	10	5.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2,4-Dimethylphenol	ND	10	5.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Dimethylphthalate	ND	10	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
4,6-Dinitro-2-methylphenol	ND	10	7.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2,4-Dinitrophenol	ND	10	4.6	µg/L	1	V-19	EPA 625	7/13/13	7/23/13 1:19	CMR
Di-n-octylphthalate	ND	10	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Fluoranthene	ND	5.0	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Fluorene	ND	5.0	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Hexachlorobenzene	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Hexachlorobutadiene	ND	10	3.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Hexachlorocyclopentadiene	ND	10	5.6	µg/L	1	L-04	EPA 625	7/13/13	7/23/13 1:19	CMR
Hexachloroethane	ND	10	4.2	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Isophorone	ND	10	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: Dup-1 | Sampled: 7/10/2013 18:10

Sample ID: 13G0401-03

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Nitrobenzene	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2-Nitrophenol	ND	10	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
4-Nitrophenol	ND	10	4.3	µg/L	1	V-05	EPA 625	7/13/13	7/23/13 1:19	CMR
N-Nitrosodiphenylamine	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
N-Nitrosodi-n-propylamine	ND	10	5.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
1-Methylnaphthalene	ND	5.0	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Pentachlorophenol	ND	10	3.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2-Methylnaphthalene	ND	5.0	4.1	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Phenanthrene	ND	5.0	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2-Methylphenol	ND	10	5.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Phenol	ND	10	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
3/4-Methylphenol	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
Pyrene	ND	5.0	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
1,2,4-Trichlorobenzene	ND	5.0	3.1	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR
2,4,6-Trichlorophenol	ND	10	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:19	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	42.6	15-110		7/23/13 1:19
Phenol-d6	31.5	15-110		7/23/13 1:19
Nitrobenzene-d5	59.2	30-130		7/23/13 1:19
2-Fluorobiphenyl	69.4	30-130		7/23/13 1:19
2,4,6-Tribromophenol	94.4	15-110		7/23/13 1:19
p-Terphenyl-d14	78.7	30-130		7/23/13 1:19

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST
Sample Description:
Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: Dup-1
Sampled: 7/10/2013 18:10

Sample ID: 13G0401-03

Sample Matrix: Ground Water

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
1H-Indene, 2,3-dihydro-5-me...	4.8	µg/L	91944	5.019	1	000874-35-1	EPA 625	7/13/13	7/23/13 1:19	CMR
3-(2-Methyl-propenyl)-1H-in...	4.2	µg/L	91447	7.51	1	1000187-78-5	EPA 625	7/13/13	7/23/13 1:19	CMR
Bacchotricuneatin c	5.4	µg/L	132568	9.925	1	066563-30-2	EPA 625	7/13/13	7/23/13 1:19	CMR
Naphthalene, 1,6,7-trimethyl-	5.0	µg/L	108281	7.842	1	002245-38-7	EPA 625	7/13/13	7/23/13 1:19	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: Dup-1 | Sampled: 7/10/2013 18:10

Sample ID: 13G0401-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	910	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
C19-C36 Aliphatics	4500	500	µg/L	5		MADEP-EPH-04-1.1	7/12/13	7/17/13 21:25	SCS
Unadjusted C11-C22 Aromatics	1800	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
C11-C22 Aromatics	1800	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Acenaphthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Acenaphthylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Chrysene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Fluoranthene	2.2	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Fluorene	4.5	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Naphthalene	2.1	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Phenanthrene	3.7	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS
Pyrene	2.3	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 22:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.7	40-140		7/15/13 22:32
o-Terphenyl (OTP)	90.5	40-140		7/15/13 22:32
2-Bromonaphthalene	103	40-140		7/15/13 22:32
2-Fluorobiphenyl	109	40-140		7/15/13 22:32

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST | Sample Description: | Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: Dup-1 | Sampled: 7/10/2013 18:10

Sample ID: 13G0401-03

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
Unadjusted C9-C12 Aliphatics	130	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
C9-C10 Aromatics	110	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 21:43	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	94.1	70-130		7/15/13 21:43
2,5-Dibromotoluene (PID)	105	70-130		7/15/13 21:43

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Fuel Oil UST
Sample Description:
Work Order: 13G0401

Date Received: 7/10/2013

Field Sample #: Dup-1
Sampled: 7/10/2013 18:10

Sample ID: 13G0401-03

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	7.7	10	3.4	µg/L	1	J	SW-846 6010C	7/11/13	7/12/13 14:25	OP
Lead	7.9	10	2.7	µg/L	1	J	SW-846 6010C	7/11/13	7/12/13 19:20	OP

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 602-EPA 602

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0401-01 [Trip Blank]	B076885	5	5.00	07/18/13
13G0401-02 [MW-1]	B076885	5	5.00	07/18/13
13G0401-03 [Dup-1]	B076885	5	5.00	07/18/13

Prep Method: SW-846 3510C-EPA 625

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0401-02 [MW-1]	B076711	1000	1.00	07/13/13
13G0401-03 [Dup-1]	B076711	1000	1.00	07/13/13

Prep Method: SW-846 3510C-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0401-02 [MW-1]	B076663	1000	2.00	07/12/13
13G0401-03 [Dup-1]	B076663	1000	2.00	07/12/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0401-02 [MW-1]	B076725	5	5.00	07/15/13
13G0401-03 [Dup-1]	B076725	5	5.00	07/15/13

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0401-02 [MW-1]	B076606	50.0	50.0	07/11/13
13G0401-03 [Dup-1]	B076606	50.0	50.0	07/11/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076885 - EPA 602										
Blank (B076885-BLK1)				Prepared & Analyzed: 07/18/13						
Benzene	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1-Chloro-3-fluorobenzene	*16.1*		µg/L	15.0		107	63.6-127			
LCS (B076885-BS1)				Prepared & Analyzed: 07/18/13						
Benzene	19.3	1.0	µg/L	20.0		96.3	73.2-120		9.13	
Chlorobenzene	19.1	1.0	µg/L	20.0		95.4	81.1-111		7.06	
1,2-Dichlorobenzene	18.2	1.0	µg/L	20.0		91.0	83.5-109		11.7	
1,3-Dichlorobenzene	19.7	1.0	µg/L	20.0		98.3	84.5-112		8.08	
1,4-Dichlorobenzene	20.3	1.0	µg/L	20.0		101	83.3-115		8.28	
Ethylbenzene	19.9	1.0	µg/L	20.0		99.3	76.7-116		7.69	
Toluene	19.7	1.0	µg/L	20.0		98.4	75.2-121		8.07	
m+p Xylene	41.0	2.0	µg/L	40.0		103	76.7-117		8.38	
o-Xylene	18.8	1.0	µg/L	20.0		94.0	70.6-113		18	
Surrogate: 1-Chloro-3-fluorobenzene	*15.0*		µg/L	15.0		100	63.6-127			
LCS Dup (B076885-BSD1)				Prepared & Analyzed: 07/18/13						
Benzene	18.9	1.0	µg/L	20.0		94.7	73.2-120	1.67	9.13	
Chlorobenzene	18.9	1.0	µg/L	20.0		94.3	81.1-111	1.18	7.06	
1,2-Dichlorobenzene	18.8	1.0	µg/L	20.0		93.9	83.5-109	3.14	11.7	
1,3-Dichlorobenzene	19.4	1.0	µg/L	20.0		96.9	84.5-112	1.42	8.08	
1,4-Dichlorobenzene	20.4	1.0	µg/L	20.0		102	83.3-115	0.756	8.28	
Ethylbenzene	19.6	1.0	µg/L	20.0		98.0	76.7-116	1.36	7.69	
Toluene	19.2	1.0	µg/L	20.0		96.0	75.2-121	2.54	8.07	
m+p Xylene	39.9	2.0	µg/L	40.0		99.9	76.7-117	2.72	8.38	
o-Xylene	19.0	1.0	µg/L	20.0		94.8	70.6-113	0.816	18	
Surrogate: 1-Chloro-3-fluorobenzene	*15.3*		µg/L	15.0		102	63.6-127			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							V-05
Benzo(k)fluoranthene	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
Benzoic Acid	ND	10	µg/L							V-20
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
4-Chloroaniline	ND	10	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-19
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							L-04, V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							V-05
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
Pentachlorophenol	ND	10	µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
2-Methylnaphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
Phenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*101*		µg/L	200		50.4	15-110			
Surrogate: Phenol-d6	*73.7*		µg/L	200		36.8	15-110			
Surrogate: Nitrobenzene-d5	*69.9*		µg/L	100		69.9	30-130			
Surrogate: 2-Fluorobiphenyl	*73.1*		µg/L	100		73.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*180*		µg/L	200		90.2	15-110			
Surrogate: p-Terphenyl-d14	*87.2*		µg/L	100		87.2	30-130			
LCS (B076711-BS1)				Prepared: 07/13/13 Analyzed: 07/16/13						
Acenaphthene	39.8	5.0	µg/L	50.0		79.7	47-145			
Acenaphthylene	40.6	5.0	µg/L	50.0		81.1	33-145			
Anthracene	42.7	5.0	µg/L	50.0		85.5	27-133			
Benzo(a)anthracene	44.2	5.0	µg/L	50.0		88.4	33-143			
Benzo(a)pyrene	45.8	5.0	µg/L	50.0		91.5	17-163			
Benzo(b)fluoranthene	46.3	5.0	µg/L	50.0		92.5	24-159			
Benzo(g,h,i)perylene	38.5	5.0	µg/L	50.0		76.9	1-219			V-05
Benzo(k)fluoranthene	45.9	5.0	µg/L	50.0		91.7	11-162			
4-Bromophenylphenylether	41.4	10	µg/L	50.0		82.9	53-127			
Butylbenzylphthalate	38.9	10	µg/L	50.0		77.8	1-152			
4-Chloro-3-methylphenol	43.2	10	µg/L	50.0		86.4	22-147			
Bis(2-chloroethoxy)methane	39.5	10	µg/L	50.0		79.0	33-184			
Bis(2-chloroethyl)ether	39.0	10	µg/L	50.0		78.0	12-158			
Bis(2-chloroisopropyl)ether	32.5	10	µg/L	50.0		65.0	36-166			
2-Chloronaphthalene	34.3	10	µg/L	50.0		68.6	60-118			
2-Chlorophenol	36.9	10	µg/L	50.0		73.8	23-134			
4-Chlorophenylphenylether	41.8	10	µg/L	50.0		83.6	25-158			
Chrysene	40.8	5.0	µg/L	50.0		81.6	17-168			
Dibenz(a,h)anthracene	42.0	5.0	µg/L	50.0		83.9	1-227			
Di-n-butylphthalate	43.9	10	µg/L	50.0		87.7	1-118			
1,3-Dichlorobenzene	26.5	5.0	µg/L	50.0		52.9	1-172			
1,4-Dichlorobenzene	27.0	5.0	µg/L	50.0		53.9	20-124			
1,2-Dichlorobenzene	28.8	5.0	µg/L	50.0		57.6	32-129			
3,3-Dichlorobenzidine	48.9	10	µg/L	50.0		97.9	1-262			
2,4-Dichlorophenol	42.3	10	µg/L	50.0		84.6	39-135			
Diethylphthalate	43.1	10	µg/L	50.0		86.2	1-114			
2,4-Dimethylphenol	43.3	10	µg/L	50.0		86.6	32-119			
Dimethylphthalate	43.6	10	µg/L	50.0		87.1	1-112			
4,6-Dinitro-2-methylphenol	42.5	10	µg/L	50.0		85.0	1-181			
2,4-Dinitrophenol	43.5	10	µg/L	50.0		87.0	1-191			V-19
Di-n-octylphthalate	55.5	10	µg/L	50.0		111	4-146			
1,2-Diphenylhydrazine (as Azobenzene)	35.9	10	µg/L	50.0		71.9	40-140			
Bis(2-Ethylhexyl)phthalate	45.6	10	µg/L	50.0		91.3	8-158			
Fluoranthene	45.7	5.0	µg/L	50.0		91.3	26-137			
Fluorene	42.4	5.0	µg/L	50.0		84.8	59-121			
Hexachlorobenzene	41.9	10	µg/L	50.0		83.7	1-152			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C											
LCS (B076711-BS1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Hexachlorobutadiene	24.3	10	µg/L	50.0		48.7		24-116			
Hexachlorocyclopentadiene	18.9	10	µg/L	50.0		**37.9**	*	40-140			L-04, V-05
Hexachloroethane	22.4	10	µg/L	50.0		44.9		40-113			
Indeno(1,2,3-cd)pyrene	44.0	5.0	µg/L	50.0		88.1		1-171			
Isophorone	38.7	10	µg/L	50.0		77.3		21-196			
Naphthalene	34.1	5.0	µg/L	50.0		68.2		21-133			
Nitrobenzene	32.6	10	µg/L	50.0		65.3		35-180			
2-Nitrophenol	40.4	10	µg/L	50.0		80.8		29-182			
4-Nitrophenol	21.9	10	µg/L	50.0		43.8		1-132			V-05
N-Nitrosodiphenylamine	50.9	10	µg/L	50.0		102		40-140			
N-Nitrosodi-n-propylamine	39.2	10	µg/L	50.0		78.4		1-230			
Pentachlorophenol	42.7	10	µg/L	50.0		85.4		14-176			
Phenanthrene	42.4	5.0	µg/L	50.0		84.9		54-120			
Phenol	20.9	10	µg/L	50.0		41.8		5-112			
Pyrene	33.4	5.0	µg/L	50.0		66.8		52-115			
1,2,4-Trichlorobenzene	30.0	5.0	µg/L	50.0		60.1		44-142			
2,4,6-Trichlorophenol	41.7	10	µg/L	50.0		83.4		37-144			
Surrogate: 2-Fluorophenol	*107*		µg/L	200		53.4		15-110			
Surrogate: Phenol-d6	*82.4*		µg/L	200		41.2		15-110			
Surrogate: Nitrobenzene-d5	*70.4*		µg/L	100		70.4		30-130			
Surrogate: 2-Fluorobiphenyl	*81.0*		µg/L	100		81.0		30-130			
Surrogate: 2,4,6-Tribromophenol	*192*		µg/L	200		96.0		15-110			
Surrogate: p-Terphenyl-d14	*73.2*		µg/L	100		73.2		30-130			
LCS Dup (B076711-BSD1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Acenaphthene	42.5	5.0	µg/L	50.0		85.0		47-145	6.41		
Acenaphthylene	43.6	5.0	µg/L	50.0		87.2		33-145	7.20		
Anthracene	45.2	5.0	µg/L	50.0		90.3		27-133	5.51		
Benzo(a)anthracene	46.9	5.0	µg/L	50.0		93.7		33-143	5.86		
Benzo(a)pyrene	48.2	5.0	µg/L	50.0		96.5		17-163	5.32		
Benzo(b)fluoranthene	51.1	5.0	µg/L	50.0		102		24-159	9.86		
Benzo(g,h,i)perylene	40.2	5.0	µg/L	50.0		80.4		1-219	4.35		V-05
Benzo(k)fluoranthene	49.8	5.0	µg/L	50.0		99.6		11-162	8.20		
4-Bromophenylphenylether	44.0	10	µg/L	50.0		88.0		53-127	5.99		
Butylbenzylphthalate	40.9	10	µg/L	50.0		81.8		1-152	4.91		
4-Chloro-3-methylphenol	46.6	10	µg/L	50.0		93.2		22-147	7.59		
Bis(2-chloroethoxy)methane	43.5	10	µg/L	50.0		87.1		33-184	9.76		
Bis(2-chloroethyl)ether	42.9	10	µg/L	50.0		85.7		12-158	9.38		
Bis(2-chloroisopropyl)ether	35.3	10	µg/L	50.0		70.7		36-166	8.31		
2-Chloronaphthalene	33.5	10	µg/L	50.0		67.0		60-118	2.36		
2-Chlorophenol	41.3	10	µg/L	50.0		82.7		23-134	11.4		
4-Chlorophenylphenylether	45.7	10	µg/L	50.0		91.4		25-158	8.92		
Chrysene	42.3	5.0	µg/L	50.0		84.6		17-168	3.58		
Dibenz(a,h)anthracene	43.2	5.0	µg/L	50.0		86.5		1-227	2.96		
Di-n-butylphthalate	45.2	10	µg/L	50.0		90.4		1-118	2.96		
1,3-Dichlorobenzene	28.2	5.0	µg/L	50.0		56.4		1-172	6.44		
1,4-Dichlorobenzene	28.8	5.0	µg/L	50.0		57.6		20-124	6.57		
1,2-Dichlorobenzene	31.0	5.0	µg/L	50.0		62.1		32-129	7.55		
3,3-Dichlorobenzidine	49.3	10	µg/L	50.0		98.5		1-262	0.652		
2,4-Dichlorophenol	44.5	10	µg/L	50.0		89.0		39-135	5.07		
Diethylphthalate	45.2	10	µg/L	50.0		90.3		1-114	4.64		
2,4-Dimethylphenol	46.7	10	µg/L	50.0		93.3		32-119	7.49		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C											
LCS Dup (B076711-BSD1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Dimethylphthalate	45.5	10	µg/L	50.0		91.1		1-112	4.42		
4,6-Dinitro-2-methylphenol	44.1	10	µg/L	50.0		88.2		1-181	3.70		
2,4-Dinitrophenol	43.9	10	µg/L	50.0		87.8		1-191	0.824		V-19
Di-n-octylphthalate	62.9	10	µg/L	50.0		126		4-146	12.4		
1,2-Diphenylhydrazine (as Azobenzene)	38.1	10	µg/L	50.0		76.2		40-140	5.81		
Bis(2-Ethylhexyl)phthalate	47.7	10	µg/L	50.0		95.4		8-158	4.41		
Fluoranthene	49.4	5.0	µg/L	50.0		98.7		26-137	7.75		
Fluorene	44.7	5.0	µg/L	50.0		89.5		59-121	5.35		
Hexachlorobenzene	43.8	10	µg/L	50.0		87.6		1-152	4.48		
Hexachlorobutadiene	27.0	10	µg/L	50.0		54.1		24-116	10.5		
Hexachlorocyclopentadiene	19.9	10	µg/L	50.0		**39.8**	*	40-140	4.99		L-04, V-05
Hexachloroethane	24.2	10	µg/L	50.0		48.5		40-113	7.80		
Indeno(1,2,3-cd)pyrene	44.3	5.0	µg/L	50.0		88.6		1-171	0.589		
Isophorone	41.6	10	µg/L	50.0		83.2		21-196	7.28		
Naphthalene	36.4	5.0	µg/L	50.0		72.8		21-133	6.55		
Nitrobenzene	35.1	10	µg/L	50.0		70.3		35-180	7.35		
2-Nitrophenol	42.7	10	µg/L	50.0		85.4		29-182	5.58		
4-Nitrophenol	22.4	10	µg/L	50.0		44.9		1-132	2.39		V-05
N-Nitrosodiphenylamine	53.5	10	µg/L	50.0		107		40-140	4.92		
N-Nitrosodi-n-propylamine	41.7	10	µg/L	50.0		83.5		1-230	6.28		
Pentachlorophenol	41.3	10	µg/L	50.0		82.6		14-176	3.40		
Phenanthrene	44.9	5.0	µg/L	50.0		89.9		54-120	5.72		
Phenol	22.6	10	µg/L	50.0		45.2		5-112	7.68		
Pyrene	34.5	5.0	µg/L	50.0		69.0		52-115	3.27		
1,2,4-Trichlorobenzene	32.4	5.0	µg/L	50.0		64.8		44-142	7.50		
2,4,6-Trichlorophenol	44.5	10	µg/L	50.0		89.1		37-144	6.56		
Surrogate: 2-Fluorophenol	*111*		µg/L	200		55.6		15-110			
Surrogate: Phenol-d6	*86.0*		µg/L	200		43.0		15-110			
Surrogate: Nitrobenzene-d5	*73.0*		µg/L	100		73.0		30-130			
Surrogate: 2-Fluorobiphenyl	*80.6*		µg/L	100		80.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*194*		µg/L	200		96.9		15-110			
Surrogate: p-Terphenyl-d14	*72.3*		µg/L	100		72.3		30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
No TICs Found	0.0		µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076663 - SW-846 3510C										
Blank (B076663-BLK1)				Prepared: 07/12/13 Analyzed: 07/15/13						
C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	*73.2*		µg/L	99.8		73.4	40-140			
Surrogate: o-Terphenyl (OTP)	*83.3*		µg/L	100		83.3	40-140			
Surrogate: 2-Bromonaphthalene	*88.4*		µg/L	100		88.4	40-140			
Surrogate: 2-Fluorobiphenyl	*98.4*		µg/L	100		98.4	40-140			
LCS (B076663-BS1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Acenaphthene	84.4	2.0	µg/L	100		84.4	40-140			
Acenaphthylene	79.6	2.0	µg/L	100		79.6	40-140			
Anthracene	91.6	2.0	µg/L	100		91.6	40-140			
Benzo(a)anthracene	94.4	2.0	µg/L	100		94.4	40-140			
Benzo(a)pyrene	89.2	2.0	µg/L	100		89.2	40-140			
Benzo(b)fluoranthene	93.2	2.0	µg/L	100		93.2	40-140			
Benzo(g,h,i)perylene	93.8	2.0	µg/L	100		93.8	40-140			
Benzo(k)fluoranthene	92.0	2.0	µg/L	100		92.0	40-140			
Chrysene	88.7	2.0	µg/L	100		88.7	40-140			
Dibenz(a,h)anthracene	93.6	2.0	µg/L	100		93.6	40-140			
Fluoranthene	92.5	2.0	µg/L	100		92.5	40-140			
Fluorene	86.1	2.0	µg/L	100		86.1	40-140			
Indeno(1,2,3-cd)pyrene	95.1	2.0	µg/L	100		95.1	40-140			
2-Methylnaphthalene	75.2	2.0	µg/L	100		75.2	40-140			
Naphthalene	67.8	2.0	µg/L	100		67.8	40-140			
Phenanthrene	90.4	2.0	µg/L	100		90.4	40-140			
Pyrene	90.5	2.0	µg/L	100		90.5	40-140			
n-Decane	61.3	2.0	µg/L	100		61.3	40-140			
n-Docosane	90.6	2.0	µg/L	100		90.6	40-140			
n-Dodecane	72.7	2.0	µg/L	100		72.7	40-140			
n-Eicosane	90.3	2.0	µg/L	100		90.3	40-140			
n-Hexacosane	87.5	2.0	µg/L	100		87.5	40-140			
n-Hexadecane	89.3	2.0	µg/L	100		89.3	40-140			
n-Hexatriacontane	95.2	2.0	µg/L	100		95.2	40-140			
n-Nonadecane	90.7	2.0	µg/L	100		90.7	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076663 - SW-846 3510C										
LCS (B076663-BS1)				Prepared: 07/12/13 Analyzed: 07/15/13						
n-Nonane	48.5	2.0	µg/L	100		48.5	30-140			
n-Octacosane	85.4	2.0	µg/L	100		85.4	40-140			
n-Octadecane	90.1	2.0	µg/L	100		90.1	40-140			
n-Tetracosane	88.9	2.0	µg/L	100		88.9	40-140			
n-Tetradecane	83.5	2.0	µg/L	100		83.5	40-140			
n-Triacontane	86.2	2.0	µg/L	100		86.2	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*79.6*		µg/L	99.8		79.7	40-140			
Surrogate: o-Terphenyl (OTP)	*84.6*		µg/L	100		84.6	40-140			
Surrogate: 2-Bromonaphthalene	*74.4*		µg/L	100		74.4	40-140			
Surrogate: 2-Fluorobiphenyl	*83.8*		µg/L	100		83.8	40-140			
LCS Dup (B076663-BSD1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Acenaphthene	85.5	2.0	µg/L	100		85.5	40-140	1.29	25	
Acenaphthylene	81.3	2.0	µg/L	100		81.3	40-140	2.11	25	
Anthracene	92.5	2.0	µg/L	100		92.5	40-140	0.986	25	
Benzo(a)anthracene	94.7	2.0	µg/L	100		94.7	40-140	0.292	25	
Benzo(a)pyrene	89.7	2.0	µg/L	100		89.7	40-140	0.572	25	
Benzo(b)fluoranthene	93.5	2.0	µg/L	100		93.5	40-140	0.401	25	
Benzo(g,h,i)perylene	94.4	2.0	µg/L	100		94.4	40-140	0.629	25	
Benzo(k)fluoranthene	92.3	2.0	µg/L	100		92.3	40-140	0.402	25	
Chrysene	89.1	2.0	µg/L	100		89.1	40-140	0.432	25	
Dibenz(a,h)anthracene	94.6	2.0	µg/L	100		94.6	40-140	1.16	25	
Fluoranthene	93.1	2.0	µg/L	100		93.1	40-140	0.683	25	
Fluorene	87.8	2.0	µg/L	100		87.8	40-140	1.90	25	
Indeno(1,2,3-cd)pyrene	96.0	2.0	µg/L	100		96.0	40-140	0.894	25	
2-Methylnaphthalene	76.4	2.0	µg/L	100		76.4	40-140	1.59	25	
Naphthalene	68.5	2.0	µg/L	100		68.5	40-140	0.939	25	
Phenanthrene	91.7	2.0	µg/L	100		91.7	40-140	1.45	25	
Pyrene	91.0	2.0	µg/L	100		91.0	40-140	0.547	25	
n-Decane	54.7	2.0	µg/L	100		54.7	40-140	11.5	25	
n-Docosane	83.3	2.0	µg/L	100		83.3	40-140	8.39	25	
n-Dodecane	65.2	2.0	µg/L	100		65.2	40-140	10.9	25	
n-Eicosane	82.2	2.0	µg/L	100		82.2	40-140	9.39	25	
n-Hexacosane	80.6	2.0	µg/L	100		80.6	40-140	8.22	25	
n-Hexadecane	81.4	2.0	µg/L	100		81.4	40-140	9.21	25	
n-Hexatriacontane	89.6	2.0	µg/L	100		89.6	40-140	6.03	25	
n-Nonadecane	82.8	2.0	µg/L	100		82.8	40-140	9.11	25	
n-Nonane	43.5	2.0	µg/L	100		43.5	30-140	10.8	25	
n-Octacosane	78.9	2.0	µg/L	100		78.9	40-140	7.92	25	
n-Octadecane	82.7	2.0	µg/L	100		82.7	40-140	8.61	25	
n-Tetracosane	81.7	2.0	µg/L	100		81.7	40-140	8.45	25	
n-Tetradecane	75.3	2.0	µg/L	100		75.3	40-140	10.3	25	
n-Triacontane	80.1	2.0	µg/L	100		80.1	40-140	7.31	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*75.8*		µg/L	99.8		75.9	40-140			
Surrogate: o-Terphenyl (OTP)	*87.5*		µg/L	100		87.5	40-140			
Surrogate: 2-Bromonaphthalene	*71.8*		µg/L	100		71.8	40-140			
Surrogate: 2-Fluorobiphenyl	*84.2*		µg/L	100		84.2	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076725 - MA VPH										
Blank (B076725-BLK1)				Prepared & Analyzed: 07/15/13						
Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Toluene	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	*35.4*		µg/L	40.0		88.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*40.0*		µg/L	40.0		99.9	70-130			
LCS (B076725-BS1)				Prepared & Analyzed: 07/15/13						
Benzene	114	1.0	µg/L	100		114	70-130			
Butylcyclohexane	87.6	1.0	µg/L	100		87.6	70-130			
Decane	95.3	1.0	µg/L	100		95.3	70-130			
Ethylbenzene	118	1.0	µg/L	100		118	70-130			
Methyl tert-Butyl Ether (MTBE)	119	1.0	µg/L	100		119	70-130			
2-Methylpentane	83.9	1.0	µg/L	100		83.9	70-130			
Naphthalene	128	5.0	µg/L	100		128	70-130			
Nonane	92.6	1.0	µg/L	100		92.6	30-130			
Pentane	77.9	1.0	µg/L	100		77.9	70-130			
Toluene	118	1.0	µg/L	100		118	70-130			
1,2,4-Trimethylbenzene	121	1.0	µg/L	100		121	70-130			
2,2,4-Trimethylpentane	88.9	1.0	µg/L	100		88.9	70-130			
m+p Xylene	241	2.0	µg/L	200		120	70-130			
o-Xylene	122	1.0	µg/L	100		122	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*38.0*		µg/L	40.0		94.9	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*43.0*		µg/L	40.0		108	70-130			
LCS Dup (B076725-BSD1)				Prepared & Analyzed: 07/15/13						
Benzene	115	1.0	µg/L	100		115	70-130	0.489	25	
Butylcyclohexane	90.0	1.0	µg/L	100		90.0	70-130	2.75	25	
Decane	98.8	1.0	µg/L	100		98.8	70-130	3.66	25	
Ethylbenzene	117	1.0	µg/L	100		117	70-130	1.10	25	
Methyl tert-Butyl Ether (MTBE)	120	1.0	µg/L	100		120	70-130	1.09	25	
2-Methylpentane	81.1	1.0	µg/L	100		81.1	70-130	3.41	25	
Naphthalene	127	5.0	µg/L	100		127	70-130	0.404	25	
Nonane	94.5	1.0	µg/L	100		94.5	30-130	2.05	25	
Pentane	75.6	1.0	µg/L	100		75.6	70-130	2.99	25	
Toluene	117	1.0	µg/L	100		117	70-130	0.565	25	
1,2,4-Trimethylbenzene	119	1.0	µg/L	100		119	70-130	1.39	25	
2,2,4-Trimethylpentane	84.8	1.0	µg/L	100		84.8	70-130	4.73	25	
m+p Xylene	238	2.0	µg/L	200		119	70-130	0.896	25	
o-Xylene	121	1.0	µg/L	100		121	70-130	0.874	25	
Surrogate: 2,5-Dibromotoluene (FID)	*35.9*		µg/L	40.0		89.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*42.5*		µg/L	40.0		106	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076606 - SW-846 3005A										
Blank (B076606-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	ND	10	µg/L							
Lead	ND	10	µg/L							
LCS (B076606-BS2)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	2070	10	µg/L	2000		104	80-120		20	
Lead	1790	10	µg/L	2000		89.4	80-120		20	
LCS Dup (B076606-BSD2)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	2050	10	µg/L	2000		103	80-120	1.07	20	
Lead	1830	10	µg/L	2000		91.7	80-120	2.55	20	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

SCS	Scott C. Sadowski
PEB	Paula E. Blakeborough
OP	Ornela Piluri
OJS	Olga J. Szymura
NJV	Nevin J. Vigneault
MJM	Michael J. Mignogna
MJH	Matthew J. Hammond
LAW	Lisa A. Worthington
JMG	James M. Georgantas
EEH	Eric E. Hess
CMR	Catherine M. Rouleau

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 602 in Water	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NC
Toluene	CT,MA,NH,NY,RI,NC,ME,VA
m+p Xylene	CT,MA,NH,NY,RI,NC,VA
o-Xylene	CT,MA,NH,NY,RI,NC,VA
1-Chloro-3-fluorobenzene	NC
EPA 625 in Water	
Acenaphthene	CT,MA,NH,NY,NC,RI,ME,VA
Acenaphthylene	CT,MA,NH,NY,NC,RI,ME,VA
Anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(a)anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(a)pyrene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(b)fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(g,h,i)perylene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(k)fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
4-Bromophenylphenylether	CT,MA,NH,NY,NC,RI,ME,VA
Butylbenzylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
4-Chloro-3-methylphenol	CT,MA,NH,NY,NC,RI,VA
Benzoic Acid	NC
Bis(2-chloroethoxy)methane	CT,MA,NH,NY,NC,RI,ME,VA
Bis(2-chloroethyl)ether	CT,MA,NH,NY,NC,RI,ME,VA
Bis(2-chloroisopropyl)ether	CT,MA,NH,NY,NC,RI,ME,VA
2-Chloronaphthalene	CT,MA,NH,NY,NC,RI,ME,VA
2-Chlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
4-Chlorophenylphenylether	CT,MA,NH,NY,NC,RI,ME,VA
Chrysene	CT,MA,NH,NY,NC,RI,ME,VA
4-Chloroaniline	NC
Dibenz(a,h)anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-butylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
1,3-Dichlorobenzene	MA,NC
1,4-Dichlorobenzene	MA,NC
1,2-Dichlorobenzene	MA,NC
3,3-Dichlorobenzidine	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dichlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
Dibenzofuran	NC
Diethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dimethylphenol	CT,MA,NH,NY,NC,RI,ME,VA
Dimethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
4,6-Dinitro-2-methylphenol	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dinitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-octylphthalate	CT,MA,NH,NY,NC,RI,ME,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 625 in Water	
1,2-Diphenylhydrazine (as Azobenzene)	NC
Bis(2-Ethylhexyl)phthalate	CT,MA,NH,NY,NC,RI,ME,VA
Fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
Fluorene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorobenzene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorobutadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorocyclopentadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachloroethane	CT,MA,NH,NY,NC,RI,ME,VA
Indeno(1,2,3-cd)pyrene	CT,MA,NH,NY,NC,RI,ME,VA
Isophorone	CT,MA,NH,NY,NC,RI,ME,VA
Naphthalene	CT,MA,NH,NY,NC,RI,ME,VA
Nitrobenzene	CT,MA,NH,NY,NC,RI,ME,VA
2-Nitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
4-Nitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
N-Nitrosodiphenylamine	CT,MA,NH,NY,NC,RI,ME,VA
N-Nitrosodi-n-propylamine	CT,MA,NH,NY,NC,RI,ME,VA
1-Methylnaphthalene	NC
Pentachlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
2-Methylnaphthalene	NC
Phenanthrene	CT,MA,NH,NY,NC,RI,ME,VA
2-Methylphenol	NY,NC
Phenol	CT,MA,NH,NY,NC,RI,ME,VA
3/4-Methylphenol	NY,NC
Pyrene	CT,MA,NH,NY,NC,RI,ME,VA
1,2,4-Trichlorobenzene	CT,MA,NH,NY,NC,RI,ME,VA
2,4,6-Trichlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
2-Fluorophenol	NC
MADEP-EPH-04-1.1 in Water	
C9-C18 Aliphatics	CT,NC,WA,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,NH-P
Acenaphthene	CT,NC,WA,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,NH-P
Anthracene	CT,NC,WA,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,NH-P
Chrysene	CT,NC,WA,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,NH-P
Fluoranthene	CT,NC,WA,ME,NH-P
Fluorene	CT,NC,WA,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Water	
Naphthalene	CT,NC,WA,ME,NH-P
Phenanthrene	CT,NC,WA,ME,NH-P
Pyrene	CT,NC,WA,ME,NH-P
MADEP-VPH-04-1.1 in Water	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 6010C in Water	
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0401

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip: Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Fuel Oil UST
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Collection					Preservation													
Field ID / Point of Collection	Date	Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2So4	None	UST Section Guidance, Appendix B VOC (EPA 602)	UST Section Guidance, Appendix B SVOC & 10 largest non-target peaks (TICs) (EPA	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)	Chromium and Lead (SW-846 6010C)				Comments
Trip Blank	-	-	Lab	W	3	3					x								
MW-1	7/10/13	1800	BM	W	11	6		1		4	x	x	x	x	x				
Dup-1	7/10/13	1810	BM	W	11	6		1		4	x	x	x	x	x				
				W	0														
				W	0														
				W	0														
				W	0														
				W	0														
				W	0														

01
02
03

Turnaround Information

- [X] 14 Day Standard
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BJ Mow	7/10/13 1800	1 Fed-X	2	7.11.13 9:23	2 Paula Blas
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time:	Received By:	Seal #	Preserved where applicable	On Ice:
5		5		[ ]	[ ]

FedEx.

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by: P BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013 - Thursday		
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS, CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013 - Wednesday		
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON NJ
3:02 pm	Shipment information sent to FedEx	

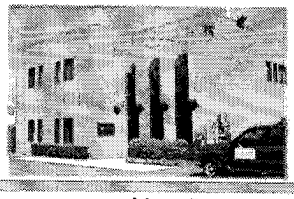
Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7·11·13

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No **No CoC Included**
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank 4.0 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
   Who was notified _____ Date _____ Time _____

7) **Location where samples are stored:** LogM

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** (Yes) No N/A _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	5	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	2	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	15	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 15 # Methanol _____ **Time and Date Frozen:**
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC Wash Water AST
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0402

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0402

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC Wash Water AST

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-3	13G0402-01	Water		EPA 602	
				EPA 625	
				MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SW-846 6010C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076663-BS1	B076663-BSD1
C9-C18	103%	93%
C19-C36	99%	91%
C11-C22	95%	95%

VPH	B076645-BS1	B076645-BSD1
C9-C10	70%	70%

EPA 625

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

13G0402-01[MW-3], B076711-BLK1, B076711-BS1, B076711-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzo(g,h,i)perylene, Hexachlorocyclopentadiene

13G0402-01[MW-3], B076711-BLK1, B076711-BS1, B076711-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0402-01[MW-3], B076711-BLK1, B076711-BS1, B076711-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Benzoic Acid

B076711-BLK1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0402

Date Received: 7/10/2013

Field Sample #: MW-3
Sampled: 7/10/2013 18:05

Sample ID: 13G0402-01

Sample Matrix: Water

Volatile Organic Compounds by GC

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH
Chlorobenzene	ND	1.0	0.080	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH
1,2-Dichlorobenzene	ND	1.0	0.070	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH
1,3-Dichlorobenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH
1,4-Dichlorobenzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH
Ethylbenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH
Toluene	ND	1.0	0.27	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH
m+p Xylene	ND	2.0	0.19	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH
o-Xylene	ND	1.0	0.080	µg/L	1		EPA 602	7/18/13	7/18/13 17:06	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1-Chloro-3-fluorobenzene	98.9	63.6-127		7/18/13 17:06

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0402

Date Received: 7/10/2013

Field Sample #: MW-3 | Sampled: 7/10/2013 18:05

Sample ID: 13G0402-01

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Acenaphthylene	ND	5.0	3.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Anthracene	ND	5.0	2.7	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Benzo(a)anthracene	ND	5.0	2.5	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Benzo(a)pyrene	ND	5.0	2.2	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Benzo(b)fluoranthene	ND	5.0	2.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Benzo(g,h,i)perylene	ND	5.0	3.5	µg/L	1	V-05	EPA 625	7/13/13	7/23/13 1:50	CMR
Benzo(k)fluoranthene	ND	5.0	3.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
4-Bromophenylphenylether	ND	10	3.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Butylbenzylphthalate	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
4-Chloro-3-methylphenol	ND	10	7.1	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Benzoic Acid	ND	10	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Bis(2-chloroethoxy)methane	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Bis(2-chloroethyl)ether	ND	10	5.7	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Bis(2-chloroisopropyl)ether	ND	10	7.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2-Chloronaphthalene	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2-Chlorophenol	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
4-Chlorophenylphenylether	ND	10	4.5	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Chrysene	ND	5.0	2.7	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
4-Chloroaniline	ND	10	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Dibenz(a,h)anthracene	ND	5.0	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Di-n-butylphthalate	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
1,3-Dichlorobenzene	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
1,4-Dichlorobenzene	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
1,2-Dichlorobenzene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
3,3-Dichlorobenzidine	ND	10	3.7	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2,4-Dichlorophenol	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Dibenzofuran	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Diethylphthalate	ND	10	5.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2,4-Dimethylphenol	ND	10	5.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Dimethylphthalate	ND	10	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
4,6-Dinitro-2-methylphenol	ND	10	7.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2,4-Dinitrophenol	ND	10	4.6	µg/L	1	V-19	EPA 625	7/13/13	7/23/13 1:50	CMR
Di-n-octylphthalate	ND	10	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Fluoranthene	ND	5.0	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Fluorene	ND	5.0	4.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Hexachlorobenzene	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Hexachlorobutadiene	ND	10	3.3	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Hexachlorocyclopentadiene	ND	10	5.6	µg/L	1	L-04	EPA 625	7/13/13	7/23/13 1:50	CMR
Hexachloroethane	ND	10	4.2	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Isophorone	ND	10	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0402

Date Received: 7/10/2013

Field Sample #: MW-3 | Sampled: 7/10/2013 18:05

Sample ID: 13G0402-01

Sample Matrix: Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Nitrobenzene	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2-Nitrophenol	ND	10	3.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
4-Nitrophenol	ND	10	4.3	µg/L	1	V-05	EPA 625	7/13/13	7/23/13 1:50	CMR
N-Nitrosodiphenylamine	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
N-Nitrosodi-n-propylamine	ND	10	5.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
1-Methylnaphthalene	ND	5.0	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Pentachlorophenol	ND	10	3.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2-Methylnaphthalene	ND	5.0	4.1	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Phenanthrene	ND	5.0	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2-Methylphenol	ND	10	5.6	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Phenol	ND	10	2.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
3/4-Methylphenol	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
Pyrene	ND	5.0	3.9	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
1,2,4-Trichlorobenzene	ND	5.0	3.1	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR
2,4,6-Trichlorophenol	ND	10	4.4	µg/L	1		EPA 625	7/13/13	7/23/13 1:50	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	46.2	15-110		7/23/13 1:50
Phenol-d6	35.0	15-110		7/23/13 1:50
Nitrobenzene-d5	63.2	30-130		7/23/13 1:50
2-Fluorobiphenyl	72.7	30-130		7/23/13 1:50
2,4,6-Tribromophenol	84.3	15-110		7/23/13 1:50
p-Terphenyl-d14	92.1	30-130		7/23/13 1:50

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0402

Date Received: 7/10/2013

Field Sample #: MW-3
Sampled: 7/10/2013 18:05

Sample ID: 13G0402-01

Sample Matrix: Water

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1		EPA 625	7/13/13	7/23/13 1:50	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0402

Date Received: 7/10/2013

Field Sample #: MW-3 | Sampled: 7/10/2013 18:05

Sample ID: 13G0402-01

Sample Matrix: Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
C19-C36 Aliphatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
C11-C22 Aromatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Acenaphthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Acenaphthylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Chrysene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Fluorene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Naphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Phenanthrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS
Pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/12/13	7/15/13 21:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	65.5	40-140		7/15/13 21:29
o-Terphenyl (OTP)	83.6	40-140		7/15/13 21:29
2-Bromonaphthalene	106	40-140		7/15/13 21:29
2-Fluorobiphenyl	110	40-140		7/15/13 21:29

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0402

Date Received: 7/10/2013

Field Sample #: MW-3 | Sampled: 7/10/2013 18:05

Sample ID: 13G0402-01

Sample Matrix: Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
C5-C8 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/12/13	7/13/13 12:48	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	90.7	70-130		7/13/13 12:48
2,5-Dibromotoluene (PID)	101	70-130		7/13/13 12:48

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0402

Date Received: 7/10/2013

Field Sample #: MW-3
Sampled: 7/10/2013 18:05

Sample ID: 13G0402-01

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:29	OP
Lead	4.3	10	2.7	µg/L	1	J	SW-846 6010C	7/11/13	7/12/13 19:24	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 602-EPA 602

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0402-01 [MW-3]	B076885	5	5.00	07/18/13

Prep Method: SW-846 3510C-EPA 625

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0402-01 [MW-3]	B076711	1000	1.00	07/13/13

Prep Method: SW-846 3510C-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0402-01 [MW-3]	B076663	1000	2.00	07/12/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0402-01 [MW-3]	B076645	5	5.00	07/12/13

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0402-01 [MW-3]	B076606	50.0	50.0	07/11/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076885 - EPA 602										
Blank (B076885-BLK1)				Prepared & Analyzed: 07/18/13						
Benzene	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1-Chloro-3-fluorobenzene	*16.1*		µg/L	15.0		107	63.6-127			
LCS (B076885-BS1)				Prepared & Analyzed: 07/18/13						
Benzene	19.3	1.0	µg/L	20.0		96.3	73.2-120		9.13	
Chlorobenzene	19.1	1.0	µg/L	20.0		95.4	81.1-111		7.06	
1,2-Dichlorobenzene	18.2	1.0	µg/L	20.0		91.0	83.5-109		11.7	
1,3-Dichlorobenzene	19.7	1.0	µg/L	20.0		98.3	84.5-112		8.08	
1,4-Dichlorobenzene	20.3	1.0	µg/L	20.0		101	83.3-115		8.28	
Ethylbenzene	19.9	1.0	µg/L	20.0		99.3	76.7-116		7.69	
Toluene	19.7	1.0	µg/L	20.0		98.4	75.2-121		8.07	
m+p Xylene	41.0	2.0	µg/L	40.0		103	76.7-117		8.38	
o-Xylene	18.8	1.0	µg/L	20.0		94.0	70.6-113		18	
Surrogate: 1-Chloro-3-fluorobenzene	*15.0*		µg/L	15.0		100	63.6-127			
LCS Dup (B076885-BSD1)				Prepared & Analyzed: 07/18/13						
Benzene	18.9	1.0	µg/L	20.0		94.7	73.2-120	1.67	9.13	
Chlorobenzene	18.9	1.0	µg/L	20.0		94.3	81.1-111	1.18	7.06	
1,2-Dichlorobenzene	18.8	1.0	µg/L	20.0		93.9	83.5-109	3.14	11.7	
1,3-Dichlorobenzene	19.4	1.0	µg/L	20.0		96.9	84.5-112	1.42	8.08	
1,4-Dichlorobenzene	20.4	1.0	µg/L	20.0		102	83.3-115	0.756	8.28	
Ethylbenzene	19.6	1.0	µg/L	20.0		98.0	76.7-116	1.36	7.69	
Toluene	19.2	1.0	µg/L	20.0		96.0	75.2-121	2.54	8.07	
m+p Xylene	39.9	2.0	µg/L	40.0		99.9	76.7-117	2.72	8.38	
o-Xylene	19.0	1.0	µg/L	20.0		94.8	70.6-113	0.816	18	
Surrogate: 1-Chloro-3-fluorobenzene	*15.3*		µg/L	15.0		102	63.6-127			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							V-05
Benzo(k)fluoranthene	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
Benzoic Acid	ND	10	µg/L							V-20
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
4-Chloroaniline	ND	10	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-19
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							L-04, V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							V-05
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
Pentachlorophenol	ND	10	µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
2-Methylnaphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
Phenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*101*		µg/L	200		50.4	15-110			
Surrogate: Phenol-d6	*73.7*		µg/L	200		36.8	15-110			
Surrogate: Nitrobenzene-d5	*69.9*		µg/L	100		69.9	30-130			
Surrogate: 2-Fluorobiphenyl	*73.1*		µg/L	100		73.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*180*		µg/L	200		90.2	15-110			
Surrogate: p-Terphenyl-d14	*87.2*		µg/L	100		87.2	30-130			
LCS (B076711-BS1)				Prepared: 07/13/13 Analyzed: 07/16/13						
Acenaphthene	39.8	5.0	µg/L	50.0		79.7	47-145			
Acenaphthylene	40.6	5.0	µg/L	50.0		81.1	33-145			
Anthracene	42.7	5.0	µg/L	50.0		85.5	27-133			
Benzo(a)anthracene	44.2	5.0	µg/L	50.0		88.4	33-143			
Benzo(a)pyrene	45.8	5.0	µg/L	50.0		91.5	17-163			
Benzo(b)fluoranthene	46.3	5.0	µg/L	50.0		92.5	24-159			
Benzo(g,h,i)perylene	38.5	5.0	µg/L	50.0		76.9	1-219			V-05
Benzo(k)fluoranthene	45.9	5.0	µg/L	50.0		91.7	11-162			
4-Bromophenylphenylether	41.4	10	µg/L	50.0		82.9	53-127			
Butylbenzylphthalate	38.9	10	µg/L	50.0		77.8	1-152			
4-Chloro-3-methylphenol	43.2	10	µg/L	50.0		86.4	22-147			
Bis(2-chloroethoxy)methane	39.5	10	µg/L	50.0		79.0	33-184			
Bis(2-chloroethyl)ether	39.0	10	µg/L	50.0		78.0	12-158			
Bis(2-chloroisopropyl)ether	32.5	10	µg/L	50.0		65.0	36-166			
2-Chloronaphthalene	34.3	10	µg/L	50.0		68.6	60-118			
2-Chlorophenol	36.9	10	µg/L	50.0		73.8	23-134			
4-Chlorophenylphenylether	41.8	10	µg/L	50.0		83.6	25-158			
Chrysene	40.8	5.0	µg/L	50.0		81.6	17-168			
Dibenz(a,h)anthracene	42.0	5.0	µg/L	50.0		83.9	1-227			
Di-n-butylphthalate	43.9	10	µg/L	50.0		87.7	1-118			
1,3-Dichlorobenzene	26.5	5.0	µg/L	50.0		52.9	1-172			
1,4-Dichlorobenzene	27.0	5.0	µg/L	50.0		53.9	20-124			
1,2-Dichlorobenzene	28.8	5.0	µg/L	50.0		57.6	32-129			
3,3-Dichlorobenzidine	48.9	10	µg/L	50.0		97.9	1-262			
2,4-Dichlorophenol	42.3	10	µg/L	50.0		84.6	39-135			
Diethylphthalate	43.1	10	µg/L	50.0		86.2	1-114			
2,4-Dimethylphenol	43.3	10	µg/L	50.0		86.6	32-119			
Dimethylphthalate	43.6	10	µg/L	50.0		87.1	1-112			
4,6-Dinitro-2-methylphenol	42.5	10	µg/L	50.0		85.0	1-181			
2,4-Dinitrophenol	43.5	10	µg/L	50.0		87.0	1-191			V-19
Di-n-octylphthalate	55.5	10	µg/L	50.0		111	4-146			
1,2-Diphenylhydrazine (as Azobenzene)	35.9	10	µg/L	50.0		71.9	40-140			
Bis(2-Ethylhexyl)phthalate	45.6	10	µg/L	50.0		91.3	8-158			
Fluoranthene	45.7	5.0	µg/L	50.0		91.3	26-137			
Fluorene	42.4	5.0	µg/L	50.0		84.8	59-121			
Hexachlorobenzene	41.9	10	µg/L	50.0		83.7	1-152			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C											
LCS (B076711-BS1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Hexachlorobutadiene	24.3	10	µg/L	50.0		48.7		24-116			
Hexachlorocyclopentadiene	18.9	10	µg/L	50.0		**37.9**	*	40-140			L-04, V-05
Hexachloroethane	22.4	10	µg/L	50.0		44.9		40-113			
Indeno(1,2,3-cd)pyrene	44.0	5.0	µg/L	50.0		88.1		1-171			
Isophorone	38.7	10	µg/L	50.0		77.3		21-196			
Naphthalene	34.1	5.0	µg/L	50.0		68.2		21-133			
Nitrobenzene	32.6	10	µg/L	50.0		65.3		35-180			
2-Nitrophenol	40.4	10	µg/L	50.0		80.8		29-182			
4-Nitrophenol	21.9	10	µg/L	50.0		43.8		1-132			V-05
N-Nitrosodiphenylamine	50.9	10	µg/L	50.0		102		40-140			
N-Nitrosodi-n-propylamine	39.2	10	µg/L	50.0		78.4		1-230			
Pentachlorophenol	42.7	10	µg/L	50.0		85.4		14-176			
Phenanthrene	42.4	5.0	µg/L	50.0		84.9		54-120			
Phenol	20.9	10	µg/L	50.0		41.8		5-112			
Pyrene	33.4	5.0	µg/L	50.0		66.8		52-115			
1,2,4-Trichlorobenzene	30.0	5.0	µg/L	50.0		60.1		44-142			
2,4,6-Trichlorophenol	41.7	10	µg/L	50.0		83.4		37-144			
Surrogate: 2-Fluorophenol	*107*		µg/L	200		53.4		15-110			
Surrogate: Phenol-d6	*82.4*		µg/L	200		41.2		15-110			
Surrogate: Nitrobenzene-d5	*70.4*		µg/L	100		70.4		30-130			
Surrogate: 2-Fluorobiphenyl	*81.0*		µg/L	100		81.0		30-130			
Surrogate: 2,4,6-Tribromophenol	*192*		µg/L	200		96.0		15-110			
Surrogate: p-Terphenyl-d14	*73.2*		µg/L	100		73.2		30-130			
LCS Dup (B076711-BSD1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Acenaphthene	42.5	5.0	µg/L	50.0		85.0		47-145	6.41		
Acenaphthylene	43.6	5.0	µg/L	50.0		87.2		33-145	7.20		
Anthracene	45.2	5.0	µg/L	50.0		90.3		27-133	5.51		
Benzo(a)anthracene	46.9	5.0	µg/L	50.0		93.7		33-143	5.86		
Benzo(a)pyrene	48.2	5.0	µg/L	50.0		96.5		17-163	5.32		
Benzo(b)fluoranthene	51.1	5.0	µg/L	50.0		102		24-159	9.86		
Benzo(g,h,i)perylene	40.2	5.0	µg/L	50.0		80.4		1-219	4.35		V-05
Benzo(k)fluoranthene	49.8	5.0	µg/L	50.0		99.6		11-162	8.20		
4-Bromophenylphenylether	44.0	10	µg/L	50.0		88.0		53-127	5.99		
Butylbenzylphthalate	40.9	10	µg/L	50.0		81.8		1-152	4.91		
4-Chloro-3-methylphenol	46.6	10	µg/L	50.0		93.2		22-147	7.59		
Bis(2-chloroethoxy)methane	43.5	10	µg/L	50.0		87.1		33-184	9.76		
Bis(2-chloroethyl)ether	42.9	10	µg/L	50.0		85.7		12-158	9.38		
Bis(2-chloroisopropyl)ether	35.3	10	µg/L	50.0		70.7		36-166	8.31		
2-Chloronaphthalene	33.5	10	µg/L	50.0		67.0		60-118	2.36		
2-Chlorophenol	41.3	10	µg/L	50.0		82.7		23-134	11.4		
4-Chlorophenylphenylether	45.7	10	µg/L	50.0		91.4		25-158	8.92		
Chrysene	42.3	5.0	µg/L	50.0		84.6		17-168	3.58		
Dibenz(a,h)anthracene	43.2	5.0	µg/L	50.0		86.5		1-227	2.96		
Di-n-butylphthalate	45.2	10	µg/L	50.0		90.4		1-118	2.96		
1,3-Dichlorobenzene	28.2	5.0	µg/L	50.0		56.4		1-172	6.44		
1,4-Dichlorobenzene	28.8	5.0	µg/L	50.0		57.6		20-124	6.57		
1,2-Dichlorobenzene	31.0	5.0	µg/L	50.0		62.1		32-129	7.55		
3,3-Dichlorobenzidine	49.3	10	µg/L	50.0		98.5		1-262	0.652		
2,4-Dichlorophenol	44.5	10	µg/L	50.0		89.0		39-135	5.07		
Diethylphthalate	45.2	10	µg/L	50.0		90.3		1-114	4.64		
2,4-Dimethylphenol	46.7	10	µg/L	50.0		93.3		32-119	7.49		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C											
LCS Dup (B076711-BSD1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Dimethylphthalate	45.5	10	µg/L	50.0		91.1		1-112	4.42		
4,6-Dinitro-2-methylphenol	44.1	10	µg/L	50.0		88.2		1-181	3.70		
2,4-Dinitrophenol	43.9	10	µg/L	50.0		87.8		1-191	0.824		V-19
Di-n-octylphthalate	62.9	10	µg/L	50.0		126		4-146	12.4		
1,2-Diphenylhydrazine (as Azobenzene)	38.1	10	µg/L	50.0		76.2		40-140	5.81		
Bis(2-Ethylhexyl)phthalate	47.7	10	µg/L	50.0		95.4		8-158	4.41		
Fluoranthene	49.4	5.0	µg/L	50.0		98.7		26-137	7.75		
Fluorene	44.7	5.0	µg/L	50.0		89.5		59-121	5.35		
Hexachlorobenzene	43.8	10	µg/L	50.0		87.6		1-152	4.48		
Hexachlorobutadiene	27.0	10	µg/L	50.0		54.1		24-116	10.5		
Hexachlorocyclopentadiene	19.9	10	µg/L	50.0		**39.8**	*	40-140	4.99		L-04, V-05
Hexachloroethane	24.2	10	µg/L	50.0		48.5		40-113	7.80		
Indeno(1,2,3-cd)pyrene	44.3	5.0	µg/L	50.0		88.6		1-171	0.589		
Isophorone	41.6	10	µg/L	50.0		83.2		21-196	7.28		
Naphthalene	36.4	5.0	µg/L	50.0		72.8		21-133	6.55		
Nitrobenzene	35.1	10	µg/L	50.0		70.3		35-180	7.35		
2-Nitrophenol	42.7	10	µg/L	50.0		85.4		29-182	5.58		
4-Nitrophenol	22.4	10	µg/L	50.0		44.9		1-132	2.39		V-05
N-Nitrosodiphenylamine	53.5	10	µg/L	50.0		107		40-140	4.92		
N-Nitrosodi-n-propylamine	41.7	10	µg/L	50.0		83.5		1-230	6.28		
Pentachlorophenol	41.3	10	µg/L	50.0		82.6		14-176	3.40		
Phenanthrene	44.9	5.0	µg/L	50.0		89.9		54-120	5.72		
Phenol	22.6	10	µg/L	50.0		45.2		5-112	7.68		
Pyrene	34.5	5.0	µg/L	50.0		69.0		52-115	3.27		
1,2,4-Trichlorobenzene	32.4	5.0	µg/L	50.0		64.8		44-142	7.50		
2,4,6-Trichlorophenol	44.5	10	µg/L	50.0		89.1		37-144	6.56		
Surrogate: 2-Fluorophenol	*111*		µg/L	200		55.6		15-110			
Surrogate: Phenol-d6	*86.0*		µg/L	200		43.0		15-110			
Surrogate: Nitrobenzene-d5	*73.0*		µg/L	100		73.0		30-130			
Surrogate: 2-Fluorobiphenyl	*80.6*		µg/L	100		80.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*194*		µg/L	200		96.9		15-110			
Surrogate: p-Terphenyl-d14	*72.3*		µg/L	100		72.3		30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
No TICs Found	0.0		µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076663 - SW-846 3510C										
Blank (B076663-BLK1)				Prepared: 07/12/13 Analyzed: 07/15/13						
C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	*73.2*		µg/L	99.8		73.4	40-140			
Surrogate: o-Terphenyl (OTP)	*83.3*		µg/L	100		83.3	40-140			
Surrogate: 2-Bromonaphthalene	*88.4*		µg/L	100		88.4	40-140			
Surrogate: 2-Fluorobiphenyl	*98.4*		µg/L	100		98.4	40-140			
LCS (B076663-BS1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Acenaphthene	84.4	2.0	µg/L	100		84.4	40-140			
Acenaphthylene	79.6	2.0	µg/L	100		79.6	40-140			
Anthracene	91.6	2.0	µg/L	100		91.6	40-140			
Benzo(a)anthracene	94.4	2.0	µg/L	100		94.4	40-140			
Benzo(a)pyrene	89.2	2.0	µg/L	100		89.2	40-140			
Benzo(b)fluoranthene	93.2	2.0	µg/L	100		93.2	40-140			
Benzo(g,h,i)perylene	93.8	2.0	µg/L	100		93.8	40-140			
Benzo(k)fluoranthene	92.0	2.0	µg/L	100		92.0	40-140			
Chrysene	88.7	2.0	µg/L	100		88.7	40-140			
Dibenz(a,h)anthracene	93.6	2.0	µg/L	100		93.6	40-140			
Fluoranthene	92.5	2.0	µg/L	100		92.5	40-140			
Fluorene	86.1	2.0	µg/L	100		86.1	40-140			
Indeno(1,2,3-cd)pyrene	95.1	2.0	µg/L	100		95.1	40-140			
2-Methylnaphthalene	75.2	2.0	µg/L	100		75.2	40-140			
Naphthalene	67.8	2.0	µg/L	100		67.8	40-140			
Phenanthrene	90.4	2.0	µg/L	100		90.4	40-140			
Pyrene	90.5	2.0	µg/L	100		90.5	40-140			
n-Decane	61.3	2.0	µg/L	100		61.3	40-140			
n-Docosane	90.6	2.0	µg/L	100		90.6	40-140			
n-Dodecane	72.7	2.0	µg/L	100		72.7	40-140			
n-Eicosane	90.3	2.0	µg/L	100		90.3	40-140			
n-Hexacosane	87.5	2.0	µg/L	100		87.5	40-140			
n-Hexadecane	89.3	2.0	µg/L	100		89.3	40-140			
n-Hexatriacontane	95.2	2.0	µg/L	100		95.2	40-140			
n-Nonadecane	90.7	2.0	µg/L	100		90.7	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076663 - SW-846 3510C										
LCS (B076663-BS1)				Prepared: 07/12/13 Analyzed: 07/15/13						
n-Nonane	48.5	2.0	µg/L	100		48.5	30-140			
n-Octacosane	85.4	2.0	µg/L	100		85.4	40-140			
n-Octadecane	90.1	2.0	µg/L	100		90.1	40-140			
n-Tetracosane	88.9	2.0	µg/L	100		88.9	40-140			
n-Tetradecane	83.5	2.0	µg/L	100		83.5	40-140			
n-Triacontane	86.2	2.0	µg/L	100		86.2	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*79.6*		µg/L	99.8		79.7	40-140			
Surrogate: o-Terphenyl (OTP)	*84.6*		µg/L	100		84.6	40-140			
Surrogate: 2-Bromonaphthalene	*74.4*		µg/L	100		74.4	40-140			
Surrogate: 2-Fluorobiphenyl	*83.8*		µg/L	100		83.8	40-140			
LCS Dup (B076663-BSD1)				Prepared: 07/12/13 Analyzed: 07/15/13						
Acenaphthene	85.5	2.0	µg/L	100		85.5	40-140	1.29	25	
Acenaphthylene	81.3	2.0	µg/L	100		81.3	40-140	2.11	25	
Anthracene	92.5	2.0	µg/L	100		92.5	40-140	0.986	25	
Benzo(a)anthracene	94.7	2.0	µg/L	100		94.7	40-140	0.292	25	
Benzo(a)pyrene	89.7	2.0	µg/L	100		89.7	40-140	0.572	25	
Benzo(b)fluoranthene	93.5	2.0	µg/L	100		93.5	40-140	0.401	25	
Benzo(g,h,i)perylene	94.4	2.0	µg/L	100		94.4	40-140	0.629	25	
Benzo(k)fluoranthene	92.3	2.0	µg/L	100		92.3	40-140	0.402	25	
Chrysene	89.1	2.0	µg/L	100		89.1	40-140	0.432	25	
Dibenz(a,h)anthracene	94.6	2.0	µg/L	100		94.6	40-140	1.16	25	
Fluoranthene	93.1	2.0	µg/L	100		93.1	40-140	0.683	25	
Fluorene	87.8	2.0	µg/L	100		87.8	40-140	1.90	25	
Indeno(1,2,3-cd)pyrene	96.0	2.0	µg/L	100		96.0	40-140	0.894	25	
2-Methylnaphthalene	76.4	2.0	µg/L	100		76.4	40-140	1.59	25	
Naphthalene	68.5	2.0	µg/L	100		68.5	40-140	0.939	25	
Phenanthrene	91.7	2.0	µg/L	100		91.7	40-140	1.45	25	
Pyrene	91.0	2.0	µg/L	100		91.0	40-140	0.547	25	
n-Decane	54.7	2.0	µg/L	100		54.7	40-140	11.5	25	
n-Docosane	83.3	2.0	µg/L	100		83.3	40-140	8.39	25	
n-Dodecane	65.2	2.0	µg/L	100		65.2	40-140	10.9	25	
n-Eicosane	82.2	2.0	µg/L	100		82.2	40-140	9.39	25	
n-Hexacosane	80.6	2.0	µg/L	100		80.6	40-140	8.22	25	
n-Hexadecane	81.4	2.0	µg/L	100		81.4	40-140	9.21	25	
n-Hexatriacontane	89.6	2.0	µg/L	100		89.6	40-140	6.03	25	
n-Nonadecane	82.8	2.0	µg/L	100		82.8	40-140	9.11	25	
n-Nonane	43.5	2.0	µg/L	100		43.5	30-140	10.8	25	
n-Octacosane	78.9	2.0	µg/L	100		78.9	40-140	7.92	25	
n-Octadecane	82.7	2.0	µg/L	100		82.7	40-140	8.61	25	
n-Tetracosane	81.7	2.0	µg/L	100		81.7	40-140	8.45	25	
n-Tetradecane	75.3	2.0	µg/L	100		75.3	40-140	10.3	25	
n-Triacontane	80.1	2.0	µg/L	100		80.1	40-140	7.31	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*75.8*		µg/L	99.8		75.9	40-140			
Surrogate: o-Terphenyl (OTP)	*87.5*		µg/L	100		87.5	40-140			
Surrogate: 2-Bromonaphthalene	*71.8*		µg/L	100		71.8	40-140			
Surrogate: 2-Fluorobiphenyl	*84.2*		µg/L	100		84.2	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076645 - MA VPH										
Blank (B076645-BLK1)				Prepared: 07/12/13 Analyzed: 07/13/13						
Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Toluene	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	*35.1*		µg/L	40.0		87.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*39.4*		µg/L	40.0		98.5	70-130			
LCS (B076645-BS1)				Prepared: 07/12/13 Analyzed: 07/13/13						
Benzene	115	1.0	µg/L	100		115	70-130			
Butylcyclohexane	82.9	1.0	µg/L	100		82.9	70-130			
Decane	86.9	1.0	µg/L	100		86.9	70-130			
Ethylbenzene	116	1.0	µg/L	100		116	70-130			
Methyl tert-Butyl Ether (MTBE)	114	1.0	µg/L	100		114	70-130			
2-Methylpentane	83.9	1.0	µg/L	100		83.9	70-130			
Naphthalene	110	5.0	µg/L	100		110	70-130			
Nonane	85.9	1.0	µg/L	100		85.9	30-130			
Pentane	76.1	1.0	µg/L	100		76.1	70-130			
Toluene	116	1.0	µg/L	100		116	70-130			
1,2,4-Trimethylbenzene	116	1.0	µg/L	100		116	70-130			
2,2,4-Trimethylpentane	86.7	1.0	µg/L	100		86.7	70-130			
m+p Xylene	235	2.0	µg/L	200		117	70-130			
o-Xylene	118	1.0	µg/L	100		118	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*36.3*		µg/L	40.0		90.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*39.7*		µg/L	40.0		99.3	70-130			
LCS Dup (B076645-BSD1)				Prepared: 07/12/13 Analyzed: 07/13/13						
Benzene	116	1.0	µg/L	100		116	70-130	0.815	25	
Butylcyclohexane	83.7	1.0	µg/L	100		83.7	70-130	1.02	25	
Decane	88.1	1.0	µg/L	100		88.1	70-130	1.40	25	
Ethylbenzene	117	1.0	µg/L	100		117	70-130	0.407	25	
Methyl tert-Butyl Ether (MTBE)	114	1.0	µg/L	100		114	70-130	0.190	25	
2-Methylpentane	83.5	1.0	µg/L	100		83.5	70-130	0.549	25	
Naphthalene	110	5.0	µg/L	100		110	70-130	0.0391	25	
Nonane	86.7	1.0	µg/L	100		86.7	30-130	0.962	25	
Pentane	78.9	1.0	µg/L	100		78.9	70-130	3.52	25	
Toluene	115	1.0	µg/L	100		115	70-130	1.02	25	
1,2,4-Trimethylbenzene	117	1.0	µg/L	100		117	70-130	0.328	25	
2,2,4-Trimethylpentane	87.4	1.0	µg/L	100		87.4	70-130	0.851	25	
m+p Xylene	236	2.0	µg/L	200		118	70-130	0.525	25	
o-Xylene	119	1.0	µg/L	100		119	70-130	0.595	25	
Surrogate: 2,5-Dibromotoluene (FID)	*34.6*		µg/L	40.0		86.5	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*37.9*		µg/L	40.0		94.7	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076606 - SW-846 3005A										
Blank (B076606-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	ND	10	µg/L							
Lead	ND	10	µg/L							
LCS (B076606-BS2)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	2070	10	µg/L	2000		104	80-120		20	
Lead	1790	10	µg/L	2000		89.4	80-120		20	
LCS Dup (B076606-BSD2)				Prepared: 07/11/13 Analyzed: 07/12/13						
Chromium	2050	10	µg/L	2000		103	80-120	1.07	20	
Lead	1830	10	µg/L	2000		91.7	80-120	2.55	20	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

SCS	Scott C. Sadowski
PEB	Paula E. Blakeborough
OP	Ornela Piluri
OJS	Olga J. Szymura
NJV	Nevin J. Vigneault
MJM	Michael J. Mignogna
MJH	Matthew J. Hammond
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
JMG	James M. Georgantas
EEH	Eric E. Hess
CMR	Catherine M. Rouleau

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 602 in Water	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NC
Toluene	CT,MA,NH,NY,RI,NC,ME,VA
m+p Xylene	CT,MA,NH,NY,RI,NC,VA
o-Xylene	CT,MA,NH,NY,RI,NC,VA
1-Chloro-3-fluorobenzene	NC
EPA 625 in Water	
Acenaphthene	CT,MA,NH,NY,NC,RI,ME,VA
Acenaphthylene	CT,MA,NH,NY,NC,RI,ME,VA
Anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(a)anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(a)pyrene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(b)fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(g,h,i)perylene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(k)fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
4-Bromophenylphenylether	CT,MA,NH,NY,NC,RI,ME,VA
Butylbenzylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
4-Chloro-3-methylphenol	CT,MA,NH,NY,NC,RI,VA
Benzoic Acid	NC
Bis(2-chloroethoxy)methane	CT,MA,NH,NY,NC,RI,ME,VA
Bis(2-chloroethyl)ether	CT,MA,NH,NY,NC,RI,ME,VA
Bis(2-chloroisopropyl)ether	CT,MA,NH,NY,NC,RI,ME,VA
2-Chloronaphthalene	CT,MA,NH,NY,NC,RI,ME,VA
2-Chlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
4-Chlorophenylphenylether	CT,MA,NH,NY,NC,RI,ME,VA
Chrysene	CT,MA,NH,NY,NC,RI,ME,VA
4-Chloroaniline	NC
Dibenz(a,h)anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-butylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
1,3-Dichlorobenzene	MA,NC
1,4-Dichlorobenzene	MA,NC
1,2-Dichlorobenzene	MA,NC
3,3-Dichlorobenzidine	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dichlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
Dibenzofuran	NC
Diethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dimethylphenol	CT,MA,NH,NY,NC,RI,ME,VA
Dimethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
4,6-Dinitro-2-methylphenol	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dinitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-octylphthalate	CT,MA,NH,NY,NC,RI,ME,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 625 in Water	
1,2-Diphenylhydrazine (as Azobenzene)	NC
Bis(2-Ethylhexyl)phthalate	CT,MA,NH,NY,NC,RI,ME,VA
Fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
Fluorene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorobenzene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorobutadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorocyclopentadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachloroethane	CT,MA,NH,NY,NC,RI,ME,VA
Indeno(1,2,3-cd)pyrene	CT,MA,NH,NY,NC,RI,ME,VA
Isophorone	CT,MA,NH,NY,NC,RI,ME,VA
Naphthalene	CT,MA,NH,NY,NC,RI,ME,VA
Nitrobenzene	CT,MA,NH,NY,NC,RI,ME,VA
2-Nitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
4-Nitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
N-Nitrosodiphenylamine	CT,MA,NH,NY,NC,RI,ME,VA
N-Nitrosodi-n-propylamine	CT,MA,NH,NY,NC,RI,ME,VA
1-Methylnaphthalene	NC
Pentachlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
2-Methylnaphthalene	NC
Phenanthrene	CT,MA,NH,NY,NC,RI,ME,VA
2-Methylphenol	NY,NC
Phenol	CT,MA,NH,NY,NC,RI,ME,VA
3/4-Methylphenol	NY,NC
Pyrene	CT,MA,NH,NY,NC,RI,ME,VA
1,2,4-Trichlorobenzene	CT,MA,NH,NY,NC,RI,ME,VA
2,4,6-Trichlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
2-Fluorophenol	NC
MADEP-EPH-04-1.1 in Water	
C9-C18 Aliphatics	CT,NC,WA,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,NH-P
Acenaphthene	CT,NC,WA,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,NH-P
Anthracene	CT,NC,WA,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,NH-P
Chrysene	CT,NC,WA,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,NH-P
Fluoranthene	CT,NC,WA,ME,NH-P
Fluorene	CT,NC,WA,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Water	
Naphthalene	CT,NC,WA,ME,NH-P
Phenanthrene	CT,NC,WA,ME,NH-P
Pyrene	CT,NC,WA,ME,NH-P
MADEP-VPH-04-1.1 in Water	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 6010C in Water	
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,NC,ME,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0402

CHAIN OF CUSTODY

con-test® ANALYTICAL LABORATORY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Wash Water AST
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	UST Section Guidance, Appendix B VOC (EPA 602)	UST Section Guidance, Appendix B SVOC & 10 largest non-target peaks (TICs) (EPA	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)	Chromium and Lead (SW-846 6010C)				Comments
~~Trip Blank~~			Lab	W	3	3					x								BM
MW-3	7/10/13	1805	BM	W	11	6		1		4	x	x	x	x	x				
				W	11	6		1		4	x	x	x	x	x				
				W	0														
				W	0														
				W	0														
				W	0														
				W	0														
				W	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BM	7/10/13 1800	1 Fed-X	2	7·11·13 9:23	2 Paula
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

Page 28 of 30 CRWPDF87 08/07/13 15:47:13

C:\Users\brandy_french\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\1DIC3FPE\COC Record - Zeus (2013-06).xls

FedEx

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by: P BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013 - Thursday		
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS, CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013 - Wednesday		
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON, NJ
3:02 pm	Shipment information sent to FedEx	

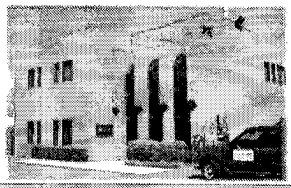
Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.11.13

1) **Was the chain(s) of custody relinquished and signed?** Yes No No CoC Included
2) **Does the chain agree with the samples?** Yes No
   If not, explain:
3) **Are all the samples in good condition?** Yes No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes No
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Logn

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No N/A _____
9) **Do all samples have the proper Base pH:** Yes No N/A _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	4	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	1	Plastic Bag / Ziploc	
40 mL Vial - type listed below	6	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 6 # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 24, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC Glue Evap Pond
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0403

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/24/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0403

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC Glue Evap Pond

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-4	13G0403-01	Water		SW-846 8260B	
				SW-846 8260C	
				SW-846 8315	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Methylene Chloride

13G0403-01[MW-4], B076741-BLK1, B076741-BS1, B076741-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Methyl Acetate

B076741-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076741-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

13G0403-01[MW-4], B076741-BLK1, B076741-BS1, B076741-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Methylene Chloride

13G0403-01[MW-4], B076741-BLK1, B076741-BS1, B076741-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

13G0403-01[MW-4], B076741-BLK1, B076741-BS1, B076741-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

Bromomethane

13G0403-01[MW-4], B076741-BLK1, B076741-BS1, B076741-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076741-BS1, B076741-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Glue Evap Pond | Sample Description: | Work Order: 13G0403

Date Received: 7/10/2013

Field Sample #: MW-4 | Sampled: 7/10/2013 17:30

Sample ID: 13G0403-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Bromomethane	ND	2.0	0.94	µg/L	1	R-05, V-19	SW-846 8260B	7/15/13	7/18/13 14:17	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Chloromethane	1.2	2.0	0.32	µg/L	1	J	SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
cis-1,3-Dichloropropene	ND	1.0	0.062	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-16	SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1	L-04, V-05	SW-846 8260B	7/15/13	7/18/13 14:17	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Glue Evap Pond
Sample Description:
Work Order: 13G0403

Date Received: 7/10/2013

Field Sample #: MW-4
Sampled: 7/10/2013 17:30

Sample ID: 13G0403-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:17	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		7/18/13 14:17
Toluene-d8	98.2	70-130		7/18/13 14:17
4-Bromofluorobenzene	101	70-130		7/18/13 14:17

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Glue Evap Pond
Sample Description:
Work Order: 13G0403

Date Received: 7/10/2013

Field Sample #: MW-4
Sampled: 7/10/2013 17:30

Sample ID: 13G0403-01

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1		SW-846 8260C	7/15/13	7/18/13 14:17	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Glue Evap Pond
Sample Description:
Work Order: 13G0403

Date Received: 7/10/2013

Field Sample #: MW-4
Sampled: 7/10/2013 17:30

Sample ID: 13G0403-01

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	50	20	µg/L	1		SW-846 8315	7/12/13	7/22/13 13:21	JMP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0403-01 [MW-4]	B076741	5	5.00	07/15/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0403-01 [MW-4]	B076627	20.0	5.00	07/12/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							R-05, V-19
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							L-04, V-05
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076741 - SW-846 5030B											
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13							
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130				
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.9	70-130				
LCS (B076741-BS1)				Prepared: 07/15/13 Analyzed: 07/18/13							
Acetone	85.3	50	µg/L	100		85.3	70-160		25		†
Benzene	9.42	1.0	µg/L	10.0		94.2	70-130		25		
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130		25		
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130		25		
Bromoform	9.53	1.0	µg/L	10.0		95.3	70-130		25		
Bromomethane	12.1	2.0	µg/L	10.0		121	40-160		25	R-05, V-19, V-20	†
2-Butanone (MEK)	83.3	20	µg/L	100		83.3	40-160		25		†
Carbon Disulfide	8.70	4.0	µg/L	10.0		87.0	70-130		25		
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110	70-130		25		
Chlorobenzene	10.4	1.0	µg/L	10.0		104	70-130		25		
Chlorodibromomethane	9.71	0.50	µg/L	10.0		97.1	70-130		25		
Chloroethane	9.97	2.0	µg/L	10.0		99.7	70-130		25		
Chloroform	10.6	2.0	µg/L	10.0		106	70-130		25		
Chloromethane	4.79	2.0	µg/L	10.0		47.9	40-160		25		†
Cyclohexane	9.38	5.0	µg/L	10.0		93.8	70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109	70-130		25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130		25		
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130		25		
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130		25		
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130		25		
Dichlorodifluoromethane (Freon 12)	5.67	2.0	µg/L	10.0		56.7	40-160		25		†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130		25		
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130		25		
1,1-Dichloroethylene	9.64	1.0	µg/L	10.0		96.4	70-130		25		
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130		25		
trans-1,2-Dichloroethylene	12.6	1.0	µg/L	10.0		126	70-130		25		
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130		25		
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4	70-130		25		
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130		25		
1,4-Dioxane	77.3	50	µg/L	100		77.3	40-130		50	V-16	†
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130		25		
2-Hexanone (MBK)	86.1	10	µg/L	100		86.1	70-160		25		†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130		25		
Methyl Acetate	7.05	1.0	µg/L	10.0		70.5	70-130		25		
Methyl tert-Butyl Ether (MTBE)	13.0	1.0	µg/L	10.0		130	70-130		25		
Methyl Cyclohexane	11.3	1.0	µg/L	10.0		113	70-130		25		
Methylene Chloride	4.44	5.0	µg/L	10.0		**44.4**	* 70-130		25	L-04, V-05, J	
4-Methyl-2-pentanone (MIBK)	89.0	10	µg/L	100		89.0	70-160		25		†
Styrene	10.6	1.0	µg/L	10.0		106	70-130		25		
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130		25		
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130		25		
Toluene	9.84	1.0	µg/L	10.0		98.4	70-130		25		
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.0		117	70-130		25		
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130		25		
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130		25		
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076741 - SW-846 5030B													
LCS (B076741-BS1)				Prepared: 07/15/13 Analyzed: 07/18/13									
Trichloroethylene	10.1	1.0	µg/L	10.0		101		70-130			25		
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110		70-130			25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.0		101		70-130			25		
Vinyl Chloride	6.19	2.0	µg/L	10.0		61.9		40-160			25		†
m+p Xylene	21.6	2.0	µg/L	20.0		108		70-130			25		
o-Xylene	10.6	1.0	µg/L	10.0		106		70-130			25		
Surrogate: 1,2-Dichloroethane-d4	*26.1*		µg/L	25.0		104		70-130					
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.3		70-130					
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102		70-130					
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13									
Acetone	78.7	50	µg/L	100		78.7		70-160	8.05		25		†
Benzene	9.06	1.0	µg/L	10.0		90.6		70-130	3.90		25		
Bromochloromethane	10.6	1.0	µg/L	10.0		106		70-130	0.663		25		
Bromodichloromethane	10.1	0.50	µg/L	10.0		101		70-130	2.64		25		
Bromoform	9.29	1.0	µg/L	10.0		92.9		70-130	2.55		25		
Bromomethane	16.1	2.0	µg/L	10.0		**161**	*	40-160	**28.0**	*	25	L-07A, R-05, V-19, V-20	†
2-Butanone (MEK)	79.0	20	µg/L	100		79.0		40-160	5.28		25		†
Carbon Disulfide	7.85	4.0	µg/L	10.0		78.5		70-130	10.3		25		
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104		70-130	5.15		25		
Chlorobenzene	9.96	1.0	µg/L	10.0		99.6		70-130	4.23		25		
Chlorodibromomethane	9.56	0.50	µg/L	10.0		95.6		70-130	1.56		25		
Chloroethane	9.82	2.0	µg/L	10.0		98.2		70-130	1.52		25		
Chloroform	10.3	2.0	µg/L	10.0		103		70-130	3.06		25		
Chloromethane	4.79	2.0	µg/L	10.0		47.9		40-160	0.00		25		†
Cyclohexane	8.91	5.0	µg/L	10.0		89.1		70-130	5.14		25		
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106		70-130	3.16		25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105		70-130	2.35		25		
1,2-Dichlorobenzene	9.73	1.0	µg/L	10.0		97.3		70-130	3.43		25		
1,3-Dichlorobenzene	9.75	1.0	µg/L	10.0		97.5		70-130	3.82		25		
1,4-Dichlorobenzene	9.84	1.0	µg/L	10.0		98.4		70-130	4.86		25		
Dichlorodifluoromethane (Freon 12)	5.51	2.0	µg/L	10.0		55.1		40-160	2.86		25		†
1,1-Dichloroethane	9.92	1.0	µg/L	10.0		99.2		70-130	3.86		25		
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130	3.14		25		
1,1-Dichloroethylene	9.12	1.0	µg/L	10.0		91.2		70-130	5.54		25		
cis-1,2-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3		70-130	5.15		25		
trans-1,2-Dichloroethylene	12.3	1.0	µg/L	10.0		123		70-130	2.58		25		
1,2-Dichloropropane	9.99	1.0	µg/L	10.0		99.9		70-130	2.76		25		
cis-1,3-Dichloropropene	9.29	0.50	µg/L	10.0		92.9		70-130	4.73		25		
trans-1,3-Dichloropropene	9.81	0.50	µg/L	10.0		98.1		70-130	2.62		25		
1,4-Dioxane	74.9	50	µg/L	100		74.9		40-130	3.10		50	V-16	† ‡
Ethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	3.58		25		
2-Hexanone (MBK)	84.0	10	µg/L	100		84.0		70-160	2.56		25		†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105		70-130	2.82		25		
Methyl Acetate	6.79	1.0	µg/L	10.0		**67.9**	*	70-130	3.76		25	L-07	
Methyl tert-Butyl Ether (MTBE)	12.8	1.0	µg/L	10.0		128		70-130	1.79		25		
Methyl Cyclohexane	10.7	1.0	µg/L	10.0		107		70-130	5.55		25		
Methylene Chloride	4.20	5.0	µg/L	10.0		**42.0**	*	70-130	5.56		25	L-04, V-05, J	
4-Methyl-2-pentanone (MIBK)	86.2	10	µg/L	100		86.2		70-160	3.21		25		†
Styrene	10.3	1.0	µg/L	10.0		103		70-130	2.88		25		
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130	2.72		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13						
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130	1.79	25	
Toluene	9.51	1.0	µg/L	10.0		95.1	70-130	3.41	25	
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109	70-130	6.99	25	
1,2,4-Trichlorobenzene	9.34	1.0	µg/L	10.0		93.4	70-130	6.83	25	
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130	4.68	25	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.06	25	
Trichloroethylene	9.82	1.0	µg/L	10.0		98.2	70-130	2.91	25	
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130	5.22	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.58	1.0	µg/L	10.0		95.8	70-130	5.38	25	
Vinyl Chloride	5.78	2.0	µg/L	10.0		57.8	40-160	6.85	25	†
m+p Xylene	21.0	2.0	µg/L	20.0		105	70-130	2.54	25	
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130	3.16	25	
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
No TICs Found	0.0		µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076627 - SW-846 8315										
Blank (B076627-BLK1)				Prepared: 07/12/13 Analyzed: 07/22/13						
Formaldehyde	ND	50	µg/L							
LCS (B076627-BS1)				Prepared & Analyzed: 07/12/13						
Formaldehyde	271	50	µg/L	250		108	39-153		30	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

ANALYST

PEB	Paula E. Blakeborough
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
LBD	Lauren B. Damboragian
JMP	Jessica M. Pace
JMG	James M. Georgantas
EEH	Eric E. Hess

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
Acetone	CT,NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	NY,NC,ME
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,NC,ME
Methyl Cyclohexane	NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NH,NY,NC,ME
1,2,4-Trichlorobenzene	CT,NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8315 in Water	
Formaldehyde	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

1360403

CHAIN OF CUSTODY

con-test® ANALYTICAL LABORATORY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Glue Evap Pond
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2So4	None	TCL VOC & 10 largest non-target peaks (TICs) (SW-846 8260B)	Formaldehyde (SW-846 8315A)							Comments
~~Trip Blank~~	-	-	Lab	W	3	3					x								BM
MW-4	7/10/13	1730	BM	W	5	3				2	x	x							
				W	5	3				2	x	x							
				W	0														
				W	0														
				W	0														
				W	0														
				W	0														
				W	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Brit [illegible]	7/10/13 1800	1 Fed-X	2	7-11-13 9:23	2 Paula B[illegible]
3		3	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice: ☐

Page 21 of 23 CRWPDF87 07/24/13 18:41:55

C:\Users\brandy_french\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\1DIC3FPE\COC Record - Zeus (2013-06).xls

FedEx.

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013 - Thursday		
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS, CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013 - Wednesday		
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON, NJ
3:02 pm	Shipment information sent to FedEx	

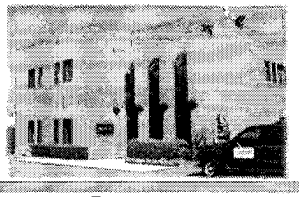
Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.11.13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	5	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 3 # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved 2

Time and Date Frozen:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

July 24, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC HWI
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0404

Enclosed are results of analyses for samples received by the laboratory on July 10, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 7/24/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0404

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC HWI

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Trip Blank	13G0404-01	Water		SW-846 8260B	
				SW-846 8260C	
MW-2	13G0404-02	Water		3810/RSK175	
				ASTM D516-90, 02	
				SM 18-20 4500 NO3 F	
				SM18 4500 NH3 C	
				SW-846 6010C	
				SW-846 7470A	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
				SW-846 8315	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Methylene Chloride

13G0404-01[Trip Blank], 13G0404-02[MW-2], B076741-BLK1, B076741-BS1, B076741-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

Methyl Acetate

B076741-BSD1

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076741-BSD1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

13G0404-01[Trip Blank], 13G0404-02[MW-2], B076741-BLK1, B076741-BS1, B076741-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Methylene Chloride

13G0404-01[Trip Blank], 13G0404-02[MW-2], B076741-BLK1, B076741-BS1, B076741-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

1,4-Dioxane

13G0404-01[Trip Blank], 13G0404-02[MW-2], B076741-BLK1, B076741-BS1, B076741-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

Bromomethane

13G0404-01[Trip Blank], 13G0404-02[MW-2], B076741-BLK1, B076741-BS1, B076741-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

Bromomethane

B076741-BS1, B076741-BSD1

SW-846 8270D

Qualifications:

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

3/4-Methylphenol

B076711-BS1, B076711-BSD1

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Caprolactam

13G0404-02[MW-2], B076711-BLK1, B076711-BS1, B076711-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzo(g,h,i)perylene, Hexachlorocyclopentadiene, Pyrene

B076711-BLK1, B076711-BS1, B076711-BSD1, 13G0404-02[MW-2]

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076711-BLK1, B076711-BS1, B076711-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol, N-Nitrosodi-n-propylamine

13G0404-02[MW-2]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI | Sample Description: | Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: Trip Blank | Sampled: 7/11/2013 09:23

Sample ID: 13G0404-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	50	4.7	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Bromomethane	ND	2.0	0.94	µg/L	1	R-05, V-19	SW-846 8260B	7/15/13	7/18/13 13:45	LBD
2-Butanone (MEK)	ND	20	2.4	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Chloromethane	ND	2.0	0.32	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
cis-1,3-Dichloropropene	ND	1.0	0.062	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-16	SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1	L-04, V-05	SW-846 8260B	7/15/13	7/18/13 13:45	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI
Sample Description:
Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: Trip Blank
Sampled: 7/11/2013 09:23

Sample ID: 13G0404-01

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 13:45	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		7/18/13 13:45
Toluene-d8	97.6	70-130		7/18/13 13:45
4-Bromofluorobenzene	99.8	70-130		7/18/13 13:45

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI
Sample Description:
Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: Trip Blank
Sampled: 7/11/2013 09:23

Sample ID: 13G0404-01

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1		SW-846 8260C	7/15/13	7/18/13 13:45	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI | Sample Description: | Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2 | Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	9.2	50	4.7	µg/L	1	J	SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Benzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Bromochloromethane	ND	1.0	0.22	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Bromodichloromethane	ND	0.50	0.088	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Bromoform	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Bromomethane	ND	2.0	0.94	µg/L	1	R-05, V-19	SW-846 8260B	7/15/13	7/18/13 14:49	LBD
2-Butanone (MEK)	2.4	20	2.4	µg/L	1	J	SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Carbon Disulfide	ND	4.0	1.0	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Carbon Tetrachloride	ND	5.0	0.10	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Chlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Chlorodibromomethane	ND	0.50	0.054	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Chloroethane	ND	2.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Chloroform	ND	2.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Chloromethane	0.82	2.0	0.32	µg/L	1	J	SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Cyclohexane	ND	5.0	0.20	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	0.34	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,2-Dibromoethane (EDB)	ND	0.50	0.089	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,2-Dichlorobenzene	ND	1.0	0.076	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,3-Dichlorobenzene	ND	1.0	0.079	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,4-Dichlorobenzene	ND	1.0	0.046	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Dichlorodifluoromethane (Freon 12)	ND	2.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,1-Dichloroethane	ND	1.0	0.16	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,2-Dichloroethane	ND	1.0	0.19	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,1-Dichloroethylene	ND	1.0	0.21	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
cis-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
trans-1,2-Dichloroethylene	ND	1.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,2-Dichloropropane	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
cis-1,3-Dichloropropene	ND	1.0	0.062	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
trans-1,3-Dichloropropene	ND	2.0	0.056	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,4-Dioxane	ND	50	26	µg/L	1	V-16	SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Ethylbenzene	ND	1.0	0.092	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
2-Hexanone (MBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Isopropylbenzene (Cumene)	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Methyl Acetate	ND	1.0	0.19	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Methyl tert-Butyl Ether (MTBE)	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Methyl Cyclohexane	ND	1.0	0.63	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Methylene Chloride	ND	5.0	3.2	µg/L	1	L-04, V-05	SW-846 8260B	7/15/13	7/18/13 14:49	LBD
4-Methyl-2-pentanone (MIBK)	ND	10	1.5	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Styrene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Tetrachloroethylene	ND	1.0	0.080	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Toluene	ND	1.0	0.090	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,2,3-Trichlorobenzene	ND	5.0	0.14	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,2,4-Trichlorobenzene	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI | Sample Description: | Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2 | Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1,1,1-Trichloroethane	ND	1.0	0.094	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,1,2-Trichloroethane	ND	1.0	0.12	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Trichloroethylene	ND	1.0	0.077	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	0.15	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	0.092	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
Vinyl Chloride	ND	2.0	0.13	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
m+p Xylene	ND	2.0	0.18	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD
o-Xylene	ND	1.0	0.11	µg/L	1		SW-846 8260B	7/15/13	7/18/13 14:49	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	106	70-130		7/18/13 14:49
Toluene-d8	97.0	70-130		7/18/13 14:49
4-Bromofluorobenzene	99.6	70-130		7/18/13 14:49

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI
Sample Description:
Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2
Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1		SW-846 8260C	7/15/13	7/18/13 14:49	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI | Sample Description: | Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2 | Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,3,4,6-Tetrachlorophenol	ND	20	10	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Atrazine	ND	20	16	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Benzaldehyde	ND	10	8.7	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Biphenyl	ND	20	10	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Caprolactam	ND	10	2.4	µg/L	1	L-04	SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Acenaphthene	ND	5.0	3.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Acenaphthylene	ND	5.0	3.4	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Acetophenone	ND	10	4.9	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Anthracene	ND	5.0	2.7	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Benzo(a)anthracene	ND	5.0	2.5	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Benzo(a)pyrene	ND	5.0	2.2	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Benzo(b)fluoranthene	ND	5.0	2.8	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Benzo(g,h,i)perylene	ND	5.0	3.5	µg/L	1	V-05	SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Benzo(k)fluoranthene	ND	5.0	3.0	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Bis(2-chloroethoxy)methane	ND	10	4.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Bis(2-chloroethyl)ether	ND	10	5.7	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Bis(2-chloroisopropyl)ether	ND	10	7.3	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	10	4.3	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
4-Bromophenylphenylether	ND	10	3.3	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Butylbenzylphthalate	ND	10	3.9	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Carbazole	ND	10	4.2	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
4-Chloroaniline	ND	10	3.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
4-Chloro-3-methylphenol	ND	10	7.1	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2-Chloronaphthalene	ND	10	4.0	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2-Chlorophenol	ND	10	4.0	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
4-Chlorophenylphenylether	ND	10	4.5	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Chrysene	ND	5.0	2.7	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Dibenz(a,h)anthracene	ND	5.0	4.8	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Dibenzofuran	ND	5.0	3.8	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Di-n-butylphthalate	ND	10	4.8	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
3,3-Dichlorobenzidine	ND	10	3.7	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2,4-Dichlorophenol	ND	10	4.8	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Diethylphthalate	ND	10	5.4	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2,4-Dimethylphenol	ND	10	5.0	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Dimethylphthalate	ND	10	3.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
4,6-Dinitro-2-methylphenol	ND	10	7.4	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2,4-Dinitrophenol	ND	10	4.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2,4-Dinitrotoluene	ND	10	6.8	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2,6-Dinitrotoluene	ND	10	4.7	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Di-n-octylphthalate	ND	10	4.3	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Fluoranthene	ND	5.0	4.4	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Fluorene	ND	5.0	4.3	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Hexachlorobenzene	ND	10	3.9	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Hexachlorobutadiene	ND	10	3.3	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI | Sample Description: | Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2 | Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexachlorocyclopentadiene	ND	10	5.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Hexachloroethane	ND	10	4.2	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Indeno(1,2,3-cd)pyrene	ND	5.0	4.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Isophorone	ND	10	4.4	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2-Methylnaphthalene	ND	5.0	4.1	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2-Methylphenol	ND	10	5.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
3/4-Methylphenol	ND	10	4.8	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Naphthalene	ND	5.0	3.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2-Nitroaniline	ND	10	8.9	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
3-Nitroaniline	ND	10	5.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
4-Nitroaniline	ND	10	7.4	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Nitrobenzene	ND	10	4.6	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2-Nitrophenol	ND	10	3.8	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
4-Nitrophenol	ND	10	4.3	µg/L	1	V-20	SW-846 8270D	7/13/13	7/21/13 18:43	BGL
N-Nitrosodiphenylamine	ND	10	4.0	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
N-Nitrosodi-n-propylamine	ND	10	5.8	µg/L	1	V-20	SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Pentachlorophenol	ND	10	3.4	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Phenanthrene	ND	5.0	2.9	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Phenol	ND	10	2.9	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
Pyrene	ND	5.0	3.9	µg/L	1	V-05	SW-846 8270D	7/13/13	7/21/13 18:43	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	3.1	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2,4,5-Trichlorophenol	ND	10	4.7	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL
2,4,6-Trichlorophenol	ND	10	4.4	µg/L	1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	49.7	15-110		7/21/13 18:43
Phenol-d6	37.1	15-110		7/21/13 18:43
Nitrobenzene-d5	64.9	30-130		7/21/13 18:43
2-Fluorobiphenyl	62.3	30-130		7/21/13 18:43
2,4,6-Tribromophenol	94.7	15-110		7/21/13 18:43
p-Terphenyl-d14	73.1	30-130		7/21/13 18:43

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI
Sample Description:
Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2
Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1		SW-846 8270D	7/13/13	7/21/13 18:43	BGL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI
Sample Description:
Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2
Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	50	20	µg/L	1		SW-846 8315	7/12/13	7/22/13 13:33	JMP
Methane	8.1	0.10	0.10	mg/L	10		3810/RSK175	7/16/13	7/16/13 13:12	WSD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI | Sample Description: | Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2 | Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	50	30	µg/L	1		SW-846 6010C	7/11/13	7/12/13 19:29	OP
Arsenic	ND	10	8.6	µg/L	1		SW-846 6010C	7/11/13	7/12/13 19:29	OP
Beryllium	ND	4.0	1.0	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:33	OP
Cadmium	ND	4.0	1.8	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:33	OP
Chromium	ND	10	3.4	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:33	OP
Copper	ND	10	5.0	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:33	OP
Lead	ND	10	2.7	µg/L	1		SW-846 6010C	7/11/13	7/12/13 19:29	OP
Manganese	3300	10	2.0	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:33	OP
Mercury	ND	0.10	0.048	µg/L	1		SW-846 7470A	7/17/13	7/17/13 12:50	SAJ
Nickel	ND	10	1.7	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:33	OP
Selenium	ND	50	16	µg/L	1		SW-846 6010C	7/11/13	7/15/13 22:33	KSH
Silver	ND	5.0	4.0	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:33	OP
Thallium	ND	50	20	µg/L	1		SW-846 6010C	7/11/13	7/12/13 14:33	OP
Zinc	13	20	7.1	µg/L	1	J	SW-846 6010C	7/11/13	7/12/13 14:33	OP

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC HWI
Sample Description:
Work Order: 13G0404

Date Received: 7/10/2013

Field Sample #: MW-2
Sampled: 7/10/2013 17:35

Sample ID: 13G0404-02

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ammonia as N	ND	0.20	0.12	mg/L	1		SM18 4500 NH3 C	7/17/13	7/17/13 12:10	VAK
Nitrate as N	0.21	0.050	0.030	mg/L	1		SM 18-20 4500 NO3 F	7/12/13	7/12/13 10:38	VAK
Sulfate	13	2.0	1.6	mg/L	1		ASTM D516-90, 02	7/12/13	7/12/13 12:14	VLA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

3810/RSK175

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-02 [MW-2]	B076901	1.00	1.00	07/16/13

ASTM D516-90, 02

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-02 [MW-2]	B076647	100	100	07/12/13

Prep Method: SM 4500 NO3-F-SM 18-20 4500 NO3 F

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-02 [MW-2]	B076675	25.0	25.0	07/12/13

SM18 4500 NH3 C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-02 [MW-2]	B076915	50.0	50.0	07/17/13

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-02 [MW-2]	B076606	50.0	50.0	07/11/13

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-02 [MW-2]	B076874	6.00	6.00	07/17/13

Prep Method: SW-846 5030B-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-01 [Trip Blank]	B076741	5	5.00	07/15/13
13G0404-02 [MW-2]	B076741	5	5.00	07/15/13

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-02 [MW-2]	B076711	1000	1.00	07/13/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0404-02 [MW-2]	B076627	20.0	5.00	07/12/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
Acetone	ND	50	µg/L							
Benzene	ND	1.0	µg/L							
Bromochloromethane	ND	1.0	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	1.0	µg/L							
Bromomethane	ND	2.0	µg/L							R-05, V-19
2-Butanone (MEK)	ND	20	µg/L							
Carbon Disulfide	ND	4.0	µg/L							
Carbon Tetrachloride	ND	5.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	2.0	µg/L							
Chloroform	ND	2.0	µg/L							
Chloromethane	ND	2.0	µg/L							
Cyclohexane	ND	5.0	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	2.0	µg/L							
1,1-Dichloroethane	ND	1.0	µg/L							
1,2-Dichloroethane	ND	1.0	µg/L							
1,1-Dichloroethylene	ND	1.0	µg/L							
cis-1,2-Dichloroethylene	ND	1.0	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	1.0	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
1,4-Dioxane	ND	50	µg/L							V-16
Ethylbenzene	ND	1.0	µg/L							
2-Hexanone (MBK)	ND	10	µg/L							
Isopropylbenzene (Cumene)	ND	1.0	µg/L							
Methyl Acetate	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Methyl Cyclohexane	ND	1.0	µg/L							
Methylene Chloride	ND	5.0	µg/L							L-04, V-05
4-Methyl-2-pentanone (MIBK)	ND	10	µg/L							
Styrene	ND	1.0	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	1.0	µg/L							
1,1,2-Trichloroethane	ND	1.0	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	1.0	µg/L							
Vinyl Chloride	ND	2.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076741 - SW-846 5030B											
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13							
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130				
Surrogate: Toluene-d8	*24.4*		µg/L	25.0		97.7	70-130				
Surrogate: 4-Bromofluorobenzene	*24.7*		µg/L	25.0		98.9	70-130				
LCS (B076741-BS1)				Prepared: 07/15/13 Analyzed: 07/18/13							
Acetone	85.3	50	µg/L	100		85.3	70-160		25		†
Benzene	9.42	1.0	µg/L	10.0		94.2	70-130		25		
Bromochloromethane	10.5	1.0	µg/L	10.0		105	70-130		25		
Bromodichloromethane	10.4	0.50	µg/L	10.0		104	70-130		25		
Bromoform	9.53	1.0	µg/L	10.0		95.3	70-130		25		
Bromomethane	12.1	2.0	µg/L	10.0		121	40-160		25	R-05, V-19, V-20	†
2-Butanone (MEK)	83.3	20	µg/L	100		83.3	40-160		25		†
Carbon Disulfide	8.70	4.0	µg/L	10.0		87.0	70-130		25		
Carbon Tetrachloride	11.0	5.0	µg/L	10.0		110	70-130		25		
Chlorobenzene	10.4	1.0	µg/L	10.0		104	70-130		25		
Chlorodibromomethane	9.71	0.50	µg/L	10.0		97.1	70-130		25		
Chloroethane	9.97	2.0	µg/L	10.0		99.7	70-130		25		
Chloroform	10.6	2.0	µg/L	10.0		106	70-130		25		
Chloromethane	4.79	2.0	µg/L	10.0		47.9	40-160		25		†
Cyclohexane	9.38	5.0	µg/L	10.0		93.8	70-130		25		
1,2-Dibromo-3-chloropropane (DBCP)	10.9	5.0	µg/L	10.0		109	70-130		25		
1,2-Dibromoethane (EDB)	10.8	0.50	µg/L	10.0		108	70-130		25		
1,2-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130		25		
1,3-Dichlorobenzene	10.1	1.0	µg/L	10.0		101	70-130		25		
1,4-Dichlorobenzene	10.3	1.0	µg/L	10.0		103	70-130		25		
Dichlorodifluoromethane (Freon 12)	5.67	2.0	µg/L	10.0		56.7	40-160		25		†
1,1-Dichloroethane	10.3	1.0	µg/L	10.0		103	70-130		25		
1,2-Dichloroethane	11.3	1.0	µg/L	10.0		113	70-130		25		
1,1-Dichloroethylene	9.64	1.0	µg/L	10.0		96.4	70-130		25		
cis-1,2-Dichloroethylene	10.4	1.0	µg/L	10.0		104	70-130		25		
trans-1,2-Dichloroethylene	12.6	1.0	µg/L	10.0		126	70-130		25		
1,2-Dichloropropane	10.3	1.0	µg/L	10.0		103	70-130		25		
cis-1,3-Dichloropropene	9.74	0.50	µg/L	10.0		97.4	70-130		25		
trans-1,3-Dichloropropene	10.1	0.50	µg/L	10.0		101	70-130		25		
1,4-Dioxane	77.3	50	µg/L	100		77.3	40-130		50	V-16	†
Ethylbenzene	10.5	1.0	µg/L	10.0		105	70-130		25		
2-Hexanone (MBK)	86.1	10	µg/L	100		86.1	70-160		25		†
Isopropylbenzene (Cumene)	10.8	1.0	µg/L	10.0		108	70-130		25		
Methyl Acetate	7.05	1.0	µg/L	10.0		70.5	70-130		25		
Methyl tert-Butyl Ether (MTBE)	13.0	1.0	µg/L	10.0		130	70-130		25		
Methyl Cyclohexane	11.3	1.0	µg/L	10.0		113	70-130		25		
Methylene Chloride	4.44	5.0	µg/L	10.0		**44.4**	* 70-130		25	J, L-04, V-05	
4-Methyl-2-pentanone (MIBK)	89.0	10	µg/L	100		89.0	70-160		25		†
Styrene	10.6	1.0	µg/L	10.0		106	70-130		25		
1,1,2,2-Tetrachloroethane	10.4	0.50	µg/L	10.0		104	70-130		25		
Tetrachloroethylene	10.7	1.0	µg/L	10.0		107	70-130		25		
Toluene	9.84	1.0	µg/L	10.0		98.4	70-130		25		
1,2,3-Trichlorobenzene	11.7	5.0	µg/L	10.0		117	70-130		25		
1,2,4-Trichlorobenzene	10.0	1.0	µg/L	10.0		100	70-130		25		
1,1,1-Trichloroethane	10.7	1.0	µg/L	10.0		107	70-130		25		
1,1,2-Trichloroethane	10.4	1.0	µg/L	10.0		104	70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes	
Batch B076741 - SW-846 5030B													
LCS (B076741-BS1)				Prepared: 07/15/13 Analyzed: 07/18/13									
Trichloroethylene	10.1	1.0	µg/L	10.0		101		70-130			25		
Trichlorofluoromethane (Freon 11)	11.0	2.0	µg/L	10.0		110		70-130			25		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1	1.0	µg/L	10.0		101		70-130			25		
Vinyl Chloride	6.19	2.0	µg/L	10.0		61.9		40-160			25		†
m+p Xylene	21.6	2.0	µg/L	20.0		108		70-130			25		
o-Xylene	10.6	1.0	µg/L	10.0		106		70-130			25		
Surrogate: 1,2-Dichloroethane-d4	*26.1*		µg/L	25.0		104		70-130					
Surrogate: Toluene-d8	*24.6*		µg/L	25.0		98.3		70-130					
Surrogate: 4-Bromofluorobenzene	*25.5*		µg/L	25.0		102		70-130					
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13									
Acetone	78.7	50	µg/L	100		78.7		70-160	8.05		25		†
Benzene	9.06	1.0	µg/L	10.0		90.6		70-130	3.90		25		
Bromochloromethane	10.6	1.0	µg/L	10.0		106		70-130	0.663		25		
Bromodichloromethane	10.1	0.50	µg/L	10.0		101		70-130	2.64		25		
Bromoform	9.29	1.0	µg/L	10.0		92.9		70-130	2.55		25		
Bromomethane	16.1	2.0	µg/L	10.0		**161**	*	40-160	**28.0**	*	25	R-05, V-19, V-20, L-07A	†
2-Butanone (MEK)	79.0	20	µg/L	100		79.0		40-160	5.28		25		†
Carbon Disulfide	7.85	4.0	µg/L	10.0		78.5		70-130	10.3		25		
Carbon Tetrachloride	10.4	5.0	µg/L	10.0		104		70-130	5.15		25		
Chlorobenzene	9.96	1.0	µg/L	10.0		99.6		70-130	4.23		25		
Chlorodibromomethane	9.56	0.50	µg/L	10.0		95.6		70-130	1.56		25		
Chloroethane	9.82	2.0	µg/L	10.0		98.2		70-130	1.52		25		
Chloroform	10.3	2.0	µg/L	10.0		103		70-130	3.06		25		
Chloromethane	4.79	2.0	µg/L	10.0		47.9		40-160	0.00		25		†
Cyclohexane	8.91	5.0	µg/L	10.0		89.1		70-130	5.14		25		
1,2-Dibromo-3-chloropropane (DBCP)	10.6	5.0	µg/L	10.0		106		70-130	3.16		25		
1,2-Dibromoethane (EDB)	10.5	0.50	µg/L	10.0		105		70-130	2.35		25		
1,2-Dichlorobenzene	9.73	1.0	µg/L	10.0		97.3		70-130	3.43		25		
1,3-Dichlorobenzene	9.75	1.0	µg/L	10.0		97.5		70-130	3.82		25		
1,4-Dichlorobenzene	9.84	1.0	µg/L	10.0		98.4		70-130	4.86		25		
Dichlorodifluoromethane (Freon 12)	5.51	2.0	µg/L	10.0		55.1		40-160	2.86		25		†
1,1-Dichloroethane	9.92	1.0	µg/L	10.0		99.2		70-130	3.86		25		
1,2-Dichloroethane	11.0	1.0	µg/L	10.0		110		70-130	3.14		25		
1,1-Dichloroethylene	9.12	1.0	µg/L	10.0		91.2		70-130	5.54		25		
cis-1,2-Dichloroethylene	9.83	1.0	µg/L	10.0		98.3		70-130	5.15		25		
trans-1,2-Dichloroethylene	12.3	1.0	µg/L	10.0		123		70-130	2.58		25		
1,2-Dichloropropane	9.99	1.0	µg/L	10.0		99.9		70-130	2.76		25		
cis-1,3-Dichloropropene	9.29	0.50	µg/L	10.0		92.9		70-130	4.73		25		
trans-1,3-Dichloropropene	9.81	0.50	µg/L	10.0		98.1		70-130	2.62		25		
1,4-Dioxane	74.9	50	µg/L	100		74.9		40-130	3.10		50	V-16	† ‡
Ethylbenzene	10.2	1.0	µg/L	10.0		102		70-130	3.58		25		
2-Hexanone (MBK)	84.0	10	µg/L	100		84.0		70-160	2.56		25		†
Isopropylbenzene (Cumene)	10.5	1.0	µg/L	10.0		105		70-130	2.82		25		
Methyl Acetate	6.79	1.0	µg/L	10.0		**67.9**	*	70-130	3.76		25	L-07	
Methyl tert-Butyl Ether (MTBE)	12.8	1.0	µg/L	10.0		128		70-130	1.79		25		
Methyl Cyclohexane	10.7	1.0	µg/L	10.0		107		70-130	5.55		25		
Methylene Chloride	4.20	5.0	µg/L	10.0		**42.0**	*	70-130	5.56		25	J, L-04, V-05	
4-Methyl-2-pentanone (MIBK)	86.2	10	µg/L	100		86.2		70-160	3.21		25		†
Styrene	10.3	1.0	µg/L	10.0		103		70-130	2.88		25		
1,1,2,2-Tetrachloroethane	10.2	0.50	µg/L	10.0		102		70-130	2.72		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
LCS Dup (B076741-BSD1)				Prepared: 07/15/13 Analyzed: 07/18/13						
Tetrachloroethylene	10.5	1.0	µg/L	10.0		105	70-130	1.79	25	
Toluene	9.51	1.0	µg/L	10.0		95.1	70-130	3.41	25	
1,2,3-Trichlorobenzene	10.9	5.0	µg/L	10.0		109	70-130	6.99	25	
1,2,4-Trichlorobenzene	9.34	1.0	µg/L	10.0		93.4	70-130	6.83	25	
1,1,1-Trichloroethane	10.2	1.0	µg/L	10.0		102	70-130	4.68	25	
1,1,2-Trichloroethane	10.3	1.0	µg/L	10.0		103	70-130	1.06	25	
Trichloroethylene	9.82	1.0	µg/L	10.0		98.2	70-130	2.91	25	
Trichlorofluoromethane (Freon 11)	10.4	2.0	µg/L	10.0		104	70-130	5.22	25	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.58	1.0	µg/L	10.0		95.8	70-130	5.38	25	
Vinyl Chloride	5.78	2.0	µg/L	10.0		57.8	40-160	6.85	25	†
m+p Xylene	21.0	2.0	µg/L	20.0		105	70-130	2.54	25	
o-Xylene	10.3	1.0	µg/L	10.0		103	70-130	3.16	25	
Surrogate: 1,2-Dichloroethane-d4	*25.8*		µg/L	25.0		103	70-130			
Surrogate: Toluene-d8	*24.5*		µg/L	25.0		98.0	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076741 - SW-846 5030B										
Blank (B076741-BLK1)				Prepared: 07/15/13 Analyzed: 07/18/13						
No TICs Found	0.0		µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/21/13						
2,3,4,6-Tetrachlorophenol	ND	20	µg/L							
Atrazine	ND	20	µg/L							
Benzaldehyde	ND	10	µg/L							
Biphenyl	ND	20	µg/L							
Caprolactam	ND	10	µg/L							L-04
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Acetophenone	ND	10	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							V-05
Benzo(k)fluoranthene	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-19
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylnaphthalene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C											
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13							
2-Nitroaniline	ND	10	µg/L								
3-Nitroaniline	ND	10	µg/L								
4-Nitroaniline	ND	10	µg/L								
Nitrobenzene	ND	10	µg/L								
2-Nitrophenol	ND	10	µg/L								
4-Nitrophenol	ND	10	µg/L								V-05
N-Nitrosodiphenylamine	ND	10	µg/L								
N-Nitrosodi-n-propylamine	ND	10	µg/L								
Pentachlorophenol	ND	10	µg/L								
Phenanthrene	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyrene	ND	5.0	µg/L								
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*101*		µg/L	200		50.4		15-110			
Surrogate: Phenol-d6	*73.7*		µg/L	200		36.8		15-110			
Surrogate: Nitrobenzene-d5	*69.9*		µg/L	100		69.9		30-130			
Surrogate: 2-Fluorobiphenyl	*73.1*		µg/L	100		73.1		30-130			
Surrogate: 2,4,6-Tribromophenol	*180*		µg/L	200		90.2		15-110			
Surrogate: p-Terphenyl-d14	*87.2*		µg/L	100		87.2		30-130			
LCS (B076711-BS1)				Prepared: 07/13/13 Analyzed: 07/21/13							
2,3,4,6-Tetrachlorophenol	43.6	20	µg/L	50.0		87.3		40-140		20	
Atrazine	37.8	20	µg/L	50.0		75.6		40-140		20	
Benzaldehyde	32.5	10	µg/L	50.0		65.0		40-140		20	
Biphenyl	33.7	20	µg/L	50.0		67.5		40-140		20	
Caprolactam	19.1	10	µg/L	50.0		**38.2**	*	40-140		20	L-04
Acenaphthene	39.8	5.0	µg/L	50.0		79.7		40-140		20	
Acenaphthylene	40.6	5.0	µg/L	50.0		81.1		40-140		20	
Acetophenone	39.4	10	µg/L	50.0		78.8		40-140		20	
Anthracene	42.7	5.0	µg/L	50.0		85.5		40-140		20	
Benzo(a)anthracene	44.2	5.0	µg/L	50.0		88.4		40-140		20	
Benzo(a)pyrene	45.8	5.0	µg/L	50.0		91.5		40-140		20	
Benzo(b)fluoranthene	46.3	5.0	µg/L	50.0		92.5		40-140		20	
Benzo(g,h,i)perylene	38.5	5.0	µg/L	50.0		76.9		40-140		20	V-05
Benzo(k)fluoranthene	45.9	5.0	µg/L	50.0		91.7		40-140		20	
Bis(2-chloroethoxy)methane	39.5	10	µg/L	50.0		79.0		40-140		20	
Bis(2-chloroethyl)ether	39.0	10	µg/L	50.0		78.0		40-140		20	
Bis(2-chloroisopropyl)ether	32.5	10	µg/L	50.0		65.0		40-140		20	
Bis(2-Ethylhexyl)phthalate	45.6	10	µg/L	50.0		91.3		40-140		20	
4-Bromophenylphenylether	41.4	10	µg/L	50.0		82.9		40-140		20	
Butylbenzylphthalate	38.9	10	µg/L	50.0		77.8		40-140		20	
Carbazole	47.4	10	µg/L	50.0		94.7		40-140		20	
4-Chloroaniline	44.4	10	µg/L	50.0		88.8		40-140		20	
4-Chloro-3-methylphenol	43.2	10	µg/L	50.0		86.4		30-130		20	
2-Chloronaphthalene	34.3	10	µg/L	50.0		68.6		40-140		20	
2-Chlorophenol	36.9	10	µg/L	50.0		73.8		30-130		20	
4-Chlorophenylphenylether	41.8	10	µg/L	50.0		83.6		40-140		20	
Chrysene	40.8	5.0	µg/L	50.0		81.6		40-140		20	
Dibenz(a,h)anthracene	42.0	5.0	µg/L	50.0		83.9		40-140		20	
Dibenzofuran	41.1	5.0	µg/L	50.0		82.2		40-140		20	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076711 - SW-846 3510C												
LCS (B076711-BS1)				Prepared: 07/13/13 Analyzed: 07/16/13								
Di-n-butylphthalate	43.9	10	µg/L	50.0		87.7		40-140		20		
3,3-Dichlorobenzidine	48.9	10	µg/L	50.0		97.9		40-140		20		
2,4-Dichlorophenol	42.3	10	µg/L	50.0		84.6		30-130		20		
Diethylphthalate	43.1	10	µg/L	50.0		86.2		40-140		20		
2,4-Dimethylphenol	43.3	10	µg/L	50.0		86.6		30-130		20		
Dimethylphthalate	43.6	10	µg/L	50.0		87.1		40-140		50		
4,6-Dinitro-2-methylphenol	42.5	10	µg/L	50.0		85.0		30-130		50		
2,4-Dinitrophenol	43.5	10	µg/L	50.0		87.0		30-130		50	V-19	
2,4-Dinitrotoluene	44.1	10	µg/L	50.0		88.3		40-140		20		
2,6-Dinitrotoluene	46.0	10	µg/L	50.0		91.9		40-140		20		
Di-n-octylphthalate	55.5	10	µg/L	50.0		111		40-140		20		
Fluoranthene	45.7	5.0	µg/L	50.0		91.3		40-140		20		
Fluorene	42.4	5.0	µg/L	50.0		84.8		40-140		20		
Hexachlorobenzene	41.9	10	µg/L	50.0		83.7		40-140		20		
Hexachlorobutadiene	24.3	10	µg/L	50.0		48.7		40-140		20		
Hexachlorocyclopentadiene	18.9	10	µg/L	50.0		37.9		30-140		50	V-05	†
Hexachloroethane	22.4	10	µg/L	50.0		44.9		40-140		50		
Indeno(1,2,3-cd)pyrene	44.0	5.0	µg/L	50.0		88.1		40-140		50		
Isophorone	38.7	10	µg/L	50.0		77.3		40-140		20		
2-Methylnaphthalene	34.2	5.0	µg/L	50.0		68.4		40-140		20		
2-Methylphenol	36.9	10	µg/L	50.0		73.8		30-130		20		
3/4-Methylphenol	85.2	10	µg/L	50.0		**170**	*	30-130		20	L-02	
Naphthalene	34.1	5.0	µg/L	50.0		68.2		40-140		20		
2-Nitroaniline	37.0	10	µg/L	50.0		74.1		40-140		20		
3-Nitroaniline	44.3	10	µg/L	50.0		88.6		40-140		20		
4-Nitroaniline	43.8	10	µg/L	50.0		87.7		40-140		20		
Nitrobenzene	32.6	10	µg/L	50.0		65.3		40-140		20		
2-Nitrophenol	40.4	10	µg/L	50.0		80.8		30-130		20		
4-Nitrophenol	21.9	10	µg/L	50.0		43.8		10-130		50	V-05	†
N-Nitrosodiphenylamine	50.9	10	µg/L	50.0		102		40-140		20		
N-Nitrosodi-n-propylamine	39.2	10	µg/L	50.0		78.4		40-140		20		
Pentachlorophenol	42.7	10	µg/L	50.0		85.4		30-130		50		
Phenanthrene	42.4	5.0	µg/L	50.0		84.9		40-140		20		
Phenol	20.9	10	µg/L	50.0		41.8		20-130		20		†
Pyrene	33.4	5.0	µg/L	50.0		66.8		40-140		20		
1,2,4,5-Tetrachlorobenzene	35.6	10	µg/L	50.0		71.2		40-140		20		
2,4,5-Trichlorophenol	43.8	10	µg/L	50.0		87.5		30-130		20		
2,4,6-Trichlorophenol	41.7	10	µg/L	50.0		83.4		30-130		50		
Surrogate: 2-Fluorophenol	*107*		µg/L	200		53.4		15-110				
Surrogate: Phenol-d6	*82.4*		µg/L	200		41.2		15-110				
Surrogate: Nitrobenzene-d5	*70.4*		µg/L	100		70.4		30-130				
Surrogate: 2-Fluorobiphenyl	*81.0*		µg/L	100		81.0		30-130				
Surrogate: 2,4,6-Tribromophenol	*192*		µg/L	200		96.0		15-110				
Surrogate: p-Terphenyl-d14	*73.2*		µg/L	100		73.2		30-130				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B076711 - SW-846 3510C												
LCS Dup (B076711-BSD1)				Prepared: 07/13/13 Analyzed: 07/21/13								
2,3,4,6-Tetrachlorophenol	49.2	20	µg/L	50.0		98.4		40-140	12.0	20		
Atrazine	44.9	20	µg/L	50.0		89.9		40-140	17.2	20		
Benzaldehyde	33.5	10	µg/L	50.0		67.0		40-140	3.03	20		
Biphenyl	36.2	20	µg/L	50.0		72.3		40-140	6.90	20		
Caprolactam	15.9	10	µg/L	50.0		**31.7**	*	40-140	18.6	20	L-04	
Acenaphthene	42.5	5.0	µg/L	50.0		85.0		40-140	6.41	20		
Acenaphthylene	43.6	5.0	µg/L	50.0		87.2		40-140	7.20	20		
Acetophenone	43.2	10	µg/L	50.0		86.4		40-140	9.20	20		
Anthracene	45.2	5.0	µg/L	50.0		90.3		40-140	5.51	20		
Benzo(a)anthracene	46.9	5.0	µg/L	50.0		93.7		40-140	5.86	20		
Benzo(a)pyrene	48.2	5.0	µg/L	50.0		96.5		40-140	5.32	20		
Benzo(b)fluoranthene	51.1	5.0	µg/L	50.0		102		40-140	9.86	20		
Benzo(g,h,i)perylene	40.2	5.0	µg/L	50.0		80.4		40-140	4.35	20	V-05	
Benzo(k)fluoranthene	49.8	5.0	µg/L	50.0		99.6		40-140	8.20	20		
Bis(2-chloroethoxy)methane	43.5	10	µg/L	50.0		87.1		40-140	9.76	20		
Bis(2-chloroethyl)ether	42.9	10	µg/L	50.0		85.7		40-140	9.38	20		
Bis(2-chloroisopropyl)ether	35.3	10	µg/L	50.0		70.7		40-140	8.31	20		
Bis(2-Ethylhexyl)phthalate	47.7	10	µg/L	50.0		95.4		40-140	4.41	20		
4-Bromophenylphenylether	44.0	10	µg/L	50.0		88.0		40-140	5.99	20		
Butylbenzylphthalate	40.9	10	µg/L	50.0		81.8		40-140	4.91	20		
Carbazole	49.3	10	µg/L	50.0		98.6		40-140	3.99	20		
4-Chloroaniline	47.3	10	µg/L	50.0		94.5		40-140	6.28	20		
4-Chloro-3-methylphenol	46.6	10	µg/L	50.0		93.2		30-130	7.59	20		
2-Chloronaphthalene	33.5	10	µg/L	50.0		67.0		40-140	2.36	20		
2-Chlorophenol	41.3	10	µg/L	50.0		82.7		30-130	11.4	20		
4-Chlorophenylphenylether	45.7	10	µg/L	50.0		91.4		40-140	8.92	20		
Chrysene	42.3	5.0	µg/L	50.0		84.6		40-140	3.58	20		
Dibenz(a,h)anthracene	43.2	5.0	µg/L	50.0		86.5		40-140	2.96	20		
Dibenzofuran	43.3	5.0	µg/L	50.0		86.5		40-140	5.12	20		
Di-n-butylphthalate	45.2	10	µg/L	50.0		90.4		40-140	2.96	20		
3,3-Dichlorobenzidine	49.3	10	µg/L	50.0		98.5		40-140	0.652	20		
2,4-Dichlorophenol	44.5	10	µg/L	50.0		89.0		30-130	5.07	20		
Diethylphthalate	45.2	10	µg/L	50.0		90.3		40-140	4.64	20		
2,4-Dimethylphenol	46.7	10	µg/L	50.0		93.3		30-130	7.49	20		
Dimethylphthalate	45.5	10	µg/L	50.0		91.1		40-140	4.42	50		‡
4,6-Dinitro-2-methylphenol	44.1	10	µg/L	50.0		88.2		30-130	3.70	50		‡
2,4-Dinitrophenol	43.9	10	µg/L	50.0		87.8		30-130	0.824	50	V-19	‡
2,4-Dinitrotoluene	46.4	10	µg/L	50.0		92.7		40-140	4.93	20		
2,6-Dinitrotoluene	48.0	10	µg/L	50.0		96.1		40-140	4.45	20		
Di-n-octylphthalate	62.9	10	µg/L	50.0		126		40-140	12.4	20		
Fluoranthene	49.4	5.0	µg/L	50.0		98.7		40-140	7.75	20		
Fluorene	44.7	5.0	µg/L	50.0		89.5		40-140	5.35	20		
Hexachlorobenzene	43.8	10	µg/L	50.0		87.6		40-140	4.48	20		
Hexachlorobutadiene	27.0	10	µg/L	50.0		54.1		40-140	10.5	20		
Hexachlorocyclopentadiene	19.9	10	µg/L	50.0		39.8		30-140	4.99	50	V-05	† ‡
Hexachloroethane	24.2	10	µg/L	50.0		48.5		40-140	7.80	50		‡
Indeno(1,2,3-cd)pyrene	44.3	5.0	µg/L	50.0		88.6		40-140	0.589	50		‡
Isophorone	41.6	10	µg/L	50.0		83.2		40-140	7.28	20		
2-Methylnaphthalene	36.4	5.0	µg/L	50.0		72.8		40-140	6.23	20		
2-Methylphenol	39.6	10	µg/L	50.0		79.1		30-130	6.93	20		
3/4-Methylphenol	90.7	10	µg/L	50.0		**181**	*	30-130	6.24	20	L-02	
Naphthalene	36.4	5.0	µg/L	50.0		72.8		40-140	6.55	20		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B076711 - SW-846 3510C											
LCS Dup (B076711-BSD1)				Prepared: 07/13/13 Analyzed: 07/16/13							
2-Nitroaniline	39.1	10	µg/L	50.0		78.3	40-140	5.46	20		
3-Nitroaniline	46.6	10	µg/L	50.0		93.2	40-140	5.02	20		
4-Nitroaniline	46.6	10	µg/L	50.0		93.2	40-140	6.10	20		
Nitrobenzene	35.1	10	µg/L	50.0		70.3	40-140	7.35	20		
2-Nitrophenol	42.7	10	µg/L	50.0		85.4	30-130	5.58	20		
4-Nitrophenol	22.4	10	µg/L	50.0		44.9	10-130	2.39	50	V-05	† ‡
N-Nitrosodiphenylamine	53.5	10	µg/L	50.0		107	40-140	4.92	20		
N-Nitrosodi-n-propylamine	41.7	10	µg/L	50.0		83.5	40-140	6.28	20		
Pentachlorophenol	41.3	10	µg/L	50.0		82.6	30-130	3.40	50		‡
Phenanthrene	44.9	5.0	µg/L	50.0		89.9	40-140	5.72	20		
Phenol	22.6	10	µg/L	50.0		45.2	20-130	7.68	20		†
Pyrene	34.5	5.0	µg/L	50.0		69.0	40-140	3.27	20		
1,2,4,5-Tetrachlorobenzene	36.7	10	µg/L	50.0		73.4	40-140	3.02	20		
2,4,5-Trichlorophenol	46.7	10	µg/L	50.0		93.3	30-130	6.41	20		
2,4,6-Trichlorophenol	44.5	10	µg/L	50.0		89.1	30-130	6.56	50		‡
Surrogate: 2-Fluorophenol	*111*		µg/L	200		55.6	15-110				
Surrogate: Phenol-d6	*86.0*		µg/L	200		43.0	15-110				
Surrogate: Nitrobenzene-d5	*73.0*		µg/L	100		73.0	30-130				
Surrogate: 2-Fluorobiphenyl	*80.6*		µg/L	100		80.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*194*		µg/L	200		96.9	15-110				
Surrogate: p-Terphenyl-d14	*72.3*		µg/L	100		72.3	30-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
No TICs Found	0.0		µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076627 - SW-846 8315										
Blank (B076627-BLK1)				Prepared: 07/12/13 Analyzed: 07/22/13						
Formaldehyde	ND	50	µg/L							
LCS (B076627-BS1)				Prepared & Analyzed: 07/12/13						
Formaldehyde	271	50	µg/L	250		108	39-153		30	
Matrix Spike (B076627-MS1)	**Source: 13G0404-02**			Prepared: 07/12/13 Analyzed: 07/22/13						
Formaldehyde	274	50	µg/L	250	ND	109	70-130		30	
Matrix Spike Dup (B076627-MSD1)	**Source: 13G0404-02**			Prepared: 07/12/13 Analyzed: 07/22/13						
Formaldehyde	304	50	µg/L	250	ND	121	70-130	10.4	30	
Batch B076901 - 3810/RSK175										
Blank (B076901-BLK1)				Prepared & Analyzed: 07/16/13						
Methane	ND	0.010	mg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076606 - SW-846 3005A										
Blank (B076606-BLK1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Antimony	ND	50	µg/L							
Arsenic	ND	10	µg/L							
Beryllium	ND	4.0	µg/L							
Cadmium	ND	4.0	µg/L							
Chromium	ND	10	µg/L							
Copper	ND	10	µg/L							
Lead	ND	10	µg/L							
Manganese	ND	10	µg/L							
Nickel	ND	10	µg/L							
Selenium	ND	50	µg/L							
Silver	ND	5.0	µg/L							
Thallium	ND	50	µg/L							
Zinc	ND	20	µg/L							
LCS (B076606-BS1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Silver	493	5.0	µg/L	500		98.5	80-120		20	
LCS (B076606-BS2)				Prepared: 07/11/13 Analyzed: 07/12/13						
Antimony	2260	50	µg/L	2000		113	80-120		20	
Arsenic	2090	10	µg/L	2000		104	80-120		20	
Beryllium	2030	4.0	µg/L	2000		101	80-120		20	
Cadmium	2050	4.0	µg/L	2000		102	80-120		20	
Chromium	2070	10	µg/L	2000		104	80-120		20	
Copper	2040	10	µg/L	2000		102	80-120		20	
Lead	1790	10	µg/L	2000		89.4	80-120		20	
Manganese	1990	10	µg/L	2000		99.3	80-120		20	
Nickel	2060	10	µg/L	2000		103	80-120		20	
Selenium	2050	50	µg/L	2000		103	80-120		20	
Thallium	2030	50	µg/L	2000		101	80-120		20	
Zinc	2020	20	µg/L	2000		101	80-120		20	
LCS Dup (B076606-BSD1)				Prepared: 07/11/13 Analyzed: 07/12/13						
Silver	497	5.0	µg/L	500		99.4	80-120	0.859	20	
LCS Dup (B076606-BSD2)				Prepared: 07/11/13 Analyzed: 07/12/13						
Antimony	2310	50	µg/L	2000		115	80-120	2.32	20	
Arsenic	2140	10	µg/L	2000		107	80-120	2.60	20	
Beryllium	2060	4.0	µg/L	2000		103	80-120	1.61	20	
Cadmium	2070	4.0	µg/L	2000		103	80-120	0.936	20	
Chromium	2050	10	µg/L	2000		103	80-120	1.07	20	
Copper	2040	10	µg/L	2000		102	80-120	0.231	20	
Lead	1830	10	µg/L	2000		91.7	80-120	2.55	20	
Manganese	1990	10	µg/L	2000		99.3	80-120	0.0906	20	
Nickel	2080	10	µg/L	2000		104	80-120	1.03	20	
Selenium	2100	50	µg/L	2000		105	80-120	2.01	20	
Thallium	2030	50	µg/L	2000		101	80-120	0.0415	20	
Zinc	2030	20	µg/L	2000		102	80-120	0.918	20	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076874 - SW-846 7470A Prep										
Blank (B076874-BLK1)				Prepared & Analyzed: 07/17/13						
Mercury	ND	0.10	µg/L							
LCS (B076874-BS1)				Prepared & Analyzed: 07/17/13						
Mercury	1.96	0.10	µg/L	2.00		98.2	80-120		20	
LCS Dup (B076874-BSD1)				Prepared & Analyzed: 07/17/13						
Mercury	1.92	0.10	µg/L	2.00		96.1	80-120	2.14	20	
Duplicate (B076874-DUP1)		**Source: 13G0404-02**		Prepared & Analyzed: 07/17/13						
Mercury	ND	0.10	µg/L		ND			NC	20	
Matrix Spike (B076874-MS1)		**Source: 13G0404-02**		Prepared & Analyzed: 07/17/13						
Mercury	1.90	0.10	µg/L	2.00	ND	94.9	75-125		20	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076647 - ASTM D516-90, 02										
Blank (B076647-BLK1)				Prepared & Analyzed: 07/12/13						
Sulfate	ND	2.0	mg/L							
LCS (B076647-BS1)				Prepared & Analyzed: 07/12/13						
Sulfate	20	2.0	mg/L	20.0		101	80.5-116		11	
LCS Dup (B076647-BSD1)				Prepared & Analyzed: 07/12/13						
Sulfate	21	2.0	mg/L	20.0		104	80.5-116	2.39	11	
Duplicate (B076647-DUP1)		**Source: 13G0404-02**		Prepared & Analyzed: 07/12/13						
Sulfate	11	2.0	mg/L		13			14.3	28.1	
Batch B076675 - SM 4500 NO3-F										
Blank (B076675-BLK1)				Prepared & Analyzed: 07/12/13						
Nitrate as N	ND	0.050	mg/L							
LCS (B076675-BS1)				Prepared & Analyzed: 07/12/13						
Nitrate as N	5.0		mg/L	4.78		104	92.8-107		3.97	
LCS Dup (B076675-BSD1)				Prepared & Analyzed: 07/12/13						
Nitrate as N	4.8		mg/L	4.78		101	92.8-107	2.66	3.97	
Batch B076915 - SM18 4500 NH3 C										
Blank (B076915-BLK1)				Prepared & Analyzed: 07/17/13						
Ammonia as N	ND	0.20	mg/L							
LCS (B076915-BS1)				Prepared & Analyzed: 07/17/13						
Ammonia as N	4.9	0.20	mg/L	5.00		98.5	87-104		5.54	
LCS Dup (B076915-BSD1)				Prepared & Analyzed: 07/17/13						
Ammonia as N	4.8	0.20	mg/L	5.00		96.9	87-104	1.64	5.54	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

MJH	Matthew J. Hammond
CMR	Catherine M. Rouleau
EEH	Eric E. Hess
JMG	James M. Georgantas
JMP	Jessica M. Pace
KSH	Karen S. Hawks
LBD	Lauren B. Damboragian
BGL	Brian G. Lagueux
MFF	Mark F. Flahive
WSD	William S. Donati
NJV	Nevin J. Vigneault
OP	Ornela Piluri
PEB	Paula E. Blakeborough
SAJ	Shamika A. Johnson
VAK	Victoria A. Kimberely
VLA	Vanessa L. Ard
LAW	Lisa A. Worthington

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
3810/RSK175 in Water	
Methane	VA,NY
ASTM D516-90, 02 in Water	
Sulfate	NY,NH,MA,CT,RI,VA
SM 18-20 4500 NO3 F in Water	
Nitrate as N	CT,MA,NH,NY,RI,ME,NC,VA
SM18 4500 NH3 C in Water	
Ammonia as N	CT,MA,NH,NY,RI,NC,ME,VA
SW-846 6010C in Water	
Antimony	CT,NH,NY,ME,NC,VA
Arsenic	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,NC,ME,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8260B in Water	
Acetone	CT,NH,NY,NC,ME
Benzene	CT,NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
Cyclohexane	NC
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Water	
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	CT,NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	NY,NC,ME
Methyl Acetate	NC
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,NC,ME
Methyl Cyclohexane	NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC,ME
Naphthalene	NH,NY,NC,ME
Styrene	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NH,NY,NC,ME
1,2,4-Trichlorobenzene	CT,NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Acetophenone	NC
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
Carbazole	NC
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrotoluene	CT,NY,NC,ME,NH,VA
2,6-Dinitrotoluene	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
2-Nitroaniline	CT,NY,NC,ME,NH,VA
3-Nitroaniline	CT,NY,NC,ME,NH,VA
4-Nitroaniline	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
1,2,4,5-Tetrachlorobenzene	NC
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,5-Trichlorophenol	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC
SW-846 8315 in Water	
Formaldehyde	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

1360404

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: ~~HW Storage/Landfill~~ HW1
Project No.: 31829188.00001
Regulatory: NC DENR IHSB

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	TCL VOC & 10 largest non-target peaks (TICs) (SW-846 8260B)	TCL SVOC & 10 largest non-target peaks (TICs) (SW-846 8270D)	Formaldehyde (SW-846 8315A)	Metals[1] (SW-846 6010C/7470A)	Ammonia (EPA 350.1/SM 4500C)	Nitrate (SM4500 NO3 F) and Sulfate (ASTM D516)	Dissolved Methane (RSK-175)		Comments
01	Trip Blank	-	-	Lab	W	3	3					x								
02	MW-2	7/10/13	1735	BM	W	13	6		1	1	5	x	x	x	x	x	x	x		
					W	13	6		1	1	5	x	x	x	x	x	x	x		
					W	0														
					W	0														
					W	0														
					W	0														
					W	0														
					W	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).
(1) Antimony, arsenic, beryllium, cadmium, chromium, copper, lead, manganese, mercury, nickel, selenium, silver, thallium, and zinc
Samples must be shipped on day of collection because of 48-hour HT for nitrate

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BJ	7/10/13 1800	1 Fed-X	2	7.11.13 9:23	2 Paula Bakeboo
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

FedEx

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by: P BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013 - Thursday		
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS, CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013 - Wednesday		
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON, NJ
3:02 pm	Shipment information sent to FedEx	

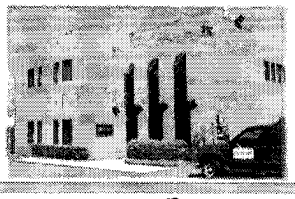
Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.11.13

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No **No CoC Included**
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank 4 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Log in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** (Yes) No N/A _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	2	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	8	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl 8 6 # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved 2

Time and Date Frozen:

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 7, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Naphtha, Varsol, Methanol USTs
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0486

Enclosed are results of analyses for samples received by the laboratory on July 12, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/7/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0486

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Naphtha, Varsol, Methanol USTs

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
NVM UST-1	13G0486-01	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
NVM UST-2	13G0486-02	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
NVM UST-3	13G0486-03	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
NVM UST-4	13G0486-04	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
NVM UST-5	13G0486-05	Soil		MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SM 2540G	
				SW-846 8260B	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank	13G0486-06	Trip Blank Soil		SW-846 8260B	
				SW-846 8260C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08/07/13: Per client request the project location has been revised to "Naphtha, Varsol, Methanol USTs".

REVISED REPORT 08/07/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are performed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B077333-BS1	B077333-BSD1
C9-C18	77%	88%
C19-C36	87%	98%
C11-C22	76%	84%

VPH	B076746-BS1	B076746-BSD1
C9-C10	97%	98%

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 8260B

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Bromoform

13G0486-05[NVM UST-5], 13G0486-06[Trip Blank], B077058-BLK1, B077058-BS1, B077058-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Bromoform

13G0486-05[NVM UST-5], 13G0486-06[Trip Blank], B077058-BLK1, B077058-BS1, B077058-BSD1

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

tert-Butyl Alcohol (TBA), Vinyl Acetate

13G0486-01[NVM UST-1], 13G0486-02[NVM UST-2], 13G0486-03[NVM UST-3], 13G0486-04[NVM UST-4], 13G0486-05[NVM UST-5], 13G0486-06[Trip Blank], B077041-BLK1, B077041-BS1, B077041-BSD1, B077058-BLK1, B077058-BS1, B077058-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2-Butanone (MEK), 2-Hexanone (MBK), Acetone, Bromomethane, Methylene Chloride

B077041-BS1, B077041-BSD1, B077058-BS1, B077058-BSD1

SW-846 8260C

Qualifications:

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Hexane

13G0486-01[NVM UST-1], 13G0486-03[NVM UST-3], 13G0486-04[NVM UST-4], 13G0486-05[NVM UST-5]

SW-846 8270D

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Benzoic Acid, Hexachlorocyclopentadiene

13G0486-01[NVM UST-1], 13G0486-02[NVM UST-2], 13G0486-03[NVM UST-3], 13G0486-04[NVM UST-4], 13G0486-05[NVM UST-5], B077054-BLK1, B077054-BS1, B077054-BSD1

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

3/4-Methylphenol, 4-Nitrophenol, Benzo(b)fluoranthene, Benzo(g,h,i)perylene, Benzoic Acid, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Hexachloroethane, N-Nitrosodi-n-propylamine

B077054-BLK1, B077054-BS1, B077054-BSD1, 13G0486-01[NVM UST-1], 13G0486-02[NVM UST-2], 13G0486-03[NVM UST-3], 13G0486-04[NVM UST-4], 13G0486-05[NVM UST-5]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B077054-BS1, B077054-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

13G0486-01[NVM UST-1], 13G0486-02[NVM UST-2], 13G0486-03[NVM UST-3], 13G0486-04[NVM UST-4], 13G0486-05[NVM UST-5]

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B077054-BLK1

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly in methanol with a soil/methanol ratio of 1:1 +/- 25% completely covered by methanol in the proper containers specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.087	0.12	0.027	mg/Kg dry	1	J	SW-846 8260B	7/18/13	7/18/13 15:30	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Benzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Bromobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Bromodichloromethane	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Bromoform	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Bromomethane	ND	0.012	0.0020	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/18/13 15:30	MFF
n-Butylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
sec-Butylbenzene	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0012	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Carbon Tetrachloride	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Chlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Chlorodibromomethane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Chloroform	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Chloromethane	ND	0.012	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
2-Chlorotoluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
4-Chlorotoluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,1-Dichloroethane	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,3-Dichloropropane	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
2,2-Dichloropropane	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
cis-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
trans-1,3-Dichloropropene	ND	0.0012	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Diisopropyl Ether (DIPE)	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Ethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.023	0.0083	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0088	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Naphthalene	ND	0.0046	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
n-Propylbenzene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Styrene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,1,2,2-Tetrachloroethane	ND	0.0012	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Toluene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,2,3-Trichlorobenzene	ND	0.012	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,2,4-Trichlorobenzene	ND	0.012	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Trichlorofluoromethane (Freon 11)	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00093	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Vinyl Acetate	ND	0.012	0.0078	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/18/13 15:30	MFF
Vinyl Chloride	ND	0.012	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF
o-Xylene	ND	0.0023	0.00081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 15:30	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	115	70-130		7/18/13 15:30
Toluene-d8	99.9	70-130		7/18/13 15:30
4-Bromofluorobenzene	97.3	70-130		7/18/13 15:30

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.016	mg/Kg dry	188749	2.584	1	000110-54-3	SW-846 8260C	7/18/13	7/18/13 15:30	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.095	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Acenaphthylene	ND	0.19	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Benzo(a)anthracene	ND	0.19	0.086	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Benzo(a)pyrene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Benzo(b)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Benzo(g,h,i)perylene	ND	0.19	0.15	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Benzo(k)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Benzoic Acid	ND	1.1	1.0	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Bis(2-chloroethoxy)methane	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Bis(2-chloroethyl)ether	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.38	0.085	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
4-Bromophenylphenylether	ND	0.38	0.093	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Butylbenzylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
4-Chloroaniline	ND	0.73	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
4-Chloro-3-methylphenol	ND	0.73	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2-Chloronaphthalene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2-Chlorophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
4-Chlorophenylphenylether	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Chrysene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Dibenzofuran	ND	0.38	0.088	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Di-n-butylphthalate	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
1,2-Dichlorobenzene	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
1,3-Dichlorobenzene	ND	0.38	0.089	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
1,4-Dichlorobenzene	ND	0.38	0.093	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
3,3-Dichlorobenzidine	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2,4-Dichlorophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Diethylphthalate	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2,4-Dimethylphenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Dimethylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2,4-Dinitrophenol	ND	0.73	0.38	mg/Kg dry	1	V-19	SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Di-n-octylphthalate	ND	0.75	0.52	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Fluorene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Hexachlorobenzene	ND	0.38	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Hexachlorobutadiene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Hexachloroethane	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Isophorone	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.19	0.072	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2-Methylnaphthalene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
3/4-Methylphenol	ND	0.38	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Naphthalene	ND	0.19	0.083	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Nitrobenzene	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2-Nitrophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
4-Nitrophenol	ND	0.73	0.66	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 20:35	CMR
N-Nitrosodiphenylamine	ND	0.38	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
N-Nitrosodi-n-propylamine	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Pentachlorophenol	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Phenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
Pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
1,2,4-Trichlorobenzene	ND	0.38	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR
2,4,6-Trichlorophenol	ND	0.38	0.24	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	48.2	30-130		7/22/13 20:35
Phenol-d6	49.8	30-130		7/22/13 20:35
Nitrobenzene-d5	51.2	30-130		7/22/13 20:35
2-Fluorobiphenyl	63.2	30-130		7/22/13 20:35
2,4,6-Tribromophenol	60.9	30-130		7/22/13 20:35
p-Terphenyl-d14	66.4	30-130		7/22/13 20:35

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/19/13	7/22/13 20:35	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	66.1	40-140		7/24/13 17:29
o-Terphenyl (OTP)	68.8	40-140		7/24/13 17:29
2-Bromonaphthalene	71.6	40-140		7/24/13 17:29
2-Fluorobiphenyl	81.6	40-140		7/24/13 17:29

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.93

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
Benzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
Ethylbenzene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
Naphthalene	ND	0.34	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
Toluene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH
o-Xylene	ND	0.068	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 10:52	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	98.4	70-130		7/16/13 10:52
2,5-Dibromotoluene (PID)	90.0	70-130		7/16/13 10:52

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-1 Sampled: 7/11/2013 13:30

Sample ID: 13G0486-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.027	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Benzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Bromobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Bromoform	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/18/13 16:00	MFF
n-Butylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Carbon Tetrachloride	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Chlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Chlorodibromomethane	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Chloroform	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Chloromethane	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
2-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
4-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,1-Dichloroethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,3-Dichloropropane	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
2,2-Dichloropropane	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Diisopropyl Ether (DIPE)	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Ethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
2-Hexanone (MBK)	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.023	0.0081	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0087	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Naphthalene	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
n-Propylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Toluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,2,3-Trichlorobenzene	ND	0.011	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,2,4-Trichlorobenzene	ND	0.011	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Vinyl Acetate	ND	0.011	0.0077	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/18/13 16:00	MFF
Vinyl Chloride	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
m+p Xylene	ND	0.0046	0.0019	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF
o-Xylene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:00	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	122	70-130		7/18/13 16:00
Toluene-d8	97.4	70-130		7/18/13 16:00
4-Bromofluorobenzene	99.3	70-130		7/18/13 16:00

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8260C	7/18/13	7/18/13 16:00	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Acenaphthylene	ND	0.20	0.096	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Benzo(a)anthracene	0.30	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Benzo(a)pyrene	0.30	0.20	0.070	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Benzo(b)fluoranthene	0.41	0.20	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Benzo(g,h,i)perylene	0.16	0.20	0.16	mg/Kg dry	1	J, V-05	SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Bis(2-chloroethoxy)methane	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Bis(2-chloroethyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Bis(2-chloroisopropyl)ether	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Bis(2-Ethylhexyl)phthalate	0.11	0.40	0.089	mg/Kg dry	1	J	SW-846 8270D	7/19/13	7/22/13 21:07	CMR
4-Bromophenylphenylether	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Butylbenzylphthalate	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
4-Chloroaniline	ND	0.77	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
4-Chloro-3-methylphenol	ND	0.77	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2-Chloronaphthalene	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2-Chlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
4-Chlorophenylphenylether	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Chrysene	0.30	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Dibenzofuran	ND	0.40	0.093	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Di-n-butylphthalate	ND	0.40	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
1,2-Dichlorobenzene	ND	0.40	0.080	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
1,3-Dichlorobenzene	ND	0.40	0.094	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
1,4-Dichlorobenzene	ND	0.40	0.099	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2,4-Dichlorophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Diethylphthalate	ND	0.40	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2,4-Dimethylphenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Dimethylphthalate	ND	0.40	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
4,6-Dinitro-2-methylphenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2,4-Dinitrophenol	ND	0.77	0.40	mg/Kg dry	1	V-19	SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Di-n-octylphthalate	ND	0.79	0.55	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Fluoranthene	0.21	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Hexachlorobenzene	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Hexachlorobutadiene	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Hexachlorocyclopentadiene	ND	0.40	0.26	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Hexachloroethane	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Indeno(1,2,3-cd)pyrene	0.20	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Isophorone	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.076	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2-Methylphenol	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
3/4-Methylphenol	ND	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Naphthalene	ND	0.20	0.088	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Nitrobenzene	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2-Nitrophenol	ND	0.40	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
4-Nitrophenol	ND	0.77	0.70	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 21:07	CMR
N-Nitrosodiphenylamine	ND	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
N-Nitrosodi-n-propylamine	ND	0.40	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Pentachlorophenol	ND	0.40	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Phenol	ND	0.40	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
Pyrene	0.20	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
1,2,4-Trichlorobenzene	ND	0.40	0.096	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR
2,4,6-Trichlorophenol	ND	0.40	0.26	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:07	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	52.4	30-130		7/22/13 21:07
Phenol-d6	55.0	30-130		7/22/13 21:07
Nitrobenzene-d5	54.7	30-130		7/22/13 21:07
2-Fluorobiphenyl	63.4	30-130		7/22/13 21:07
2,4,6-Tribromophenol	59.0	30-130		7/22/13 21:07
p-Terphenyl-d14	69.1	30-130		7/22/13 21:07

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzo[e]pyrene	0.26	mg/Kg dry	110904	17.268	1	000192-97-2	SW-846 8270D	7/19/13	7/22/13 21:07	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:53	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	63.5	40-140		7/24/13 18:53
o-Terphenyl (OTP)	64.9	40-140		7/24/13 18:53
2-Bromonaphthalene	73.1	40-140		7/24/13 18:53
2-Fluorobiphenyl	86.1	40-140		7/24/13 18:53

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.96

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
C5-C8 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
Unadjusted C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
C9-C12 Aliphatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
C9-C10 Aromatics	ND	14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
Benzene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
Ethylbenzene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
Naphthalene	ND	0.35	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
Toluene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
m+p Xylene	ND	0.14	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH
o-Xylene	ND	0.070	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 11:28	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	107	70-130		7/16/13 11:28
2,5-Dibromotoluene (PID)	98.0	70-130		7/16/13 11:28

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-2 Sampled: 7/11/2013 13:40

Sample ID: 13G0486-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.2		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Benzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Bromobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Bromochloromethane	ND	0.0020	0.0014	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Bromoform	ND	0.0040	0.0014	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Bromomethane	ND	0.010	0.0017	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/18/13 16:31	MFF
n-Butylbenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
tert-Butylbenzene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00060	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Chlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Chloroethane	ND	0.020	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Chloroform	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Chloromethane	ND	0.010	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
2-Chlorotoluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
4-Chlorotoluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,3-Dichloropropane	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
2,2-Dichloropropane	ND	0.0040	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,1-Dichloropropene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Diisopropyl Ether (DIPE)	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Ethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.020	0.0071	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Naphthalene	ND	0.0040	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
n-Propylbenzene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Styrene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Toluene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,2,3-Trichlorobenzene	ND	0.010	0.00060	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,2,4-Trichlorobenzene	ND	0.010	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Trichloroethylene	ND	0.0020	0.00090	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,2,4-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
1,3,5-Trimethylbenzene	ND	0.0020	0.00060	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Vinyl Acetate	ND	0.010	0.0067	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/18/13 16:31	MFF
Vinyl Chloride	ND	0.010	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
m+p Xylene	ND	0.0040	0.0017	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF
o-Xylene	ND	0.0020	0.00070	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 16:31	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	121	70-130		7/18/13 16:31
Toluene-d8	100	70-130		7/18/13 16:31
4-Bromofluorobenzene	96.2	70-130		7/18/13 16:31

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.012	mg/Kg dry	155350	2.584	1	000110-54-3	SW-846 8260C	7/18/13	7/18/13 16:31	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	0.095	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Acenaphthylene	ND	0.19	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Anthracene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Benzo(a)anthracene	ND	0.19	0.086	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Benzo(a)pyrene	ND	0.19	0.067	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Benzo(b)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Benzo(g,h,i)perylene	ND	0.19	0.15	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Benzo(k)fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Benzoic Acid	ND	1.1	1.0	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Bis(2-chloroethoxy)methane	ND	0.38	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Bis(2-chloroethyl)ether	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Bis(2-chloroisopropyl)ether	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Bis(2-Ethylhexyl)phthalate	0.11	0.38	0.085	mg/Kg dry	1	J	SW-846 8270D	7/19/13	7/22/13 21:39	CMR
4-Bromophenylphenylether	ND	0.38	0.094	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Butylbenzylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
4-Chloroaniline	ND	0.74	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
4-Chloro-3-methylphenol	ND	0.74	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2-Chloronaphthalene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2-Chlorophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
4-Chlorophenylphenylether	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Chrysene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Dibenz(a,h)anthracene	ND	0.19	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Dibenzofuran	ND	0.38	0.088	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Di-n-butylphthalate	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
1,2-Dichlorobenzene	ND	0.38	0.076	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
1,3-Dichlorobenzene	ND	0.38	0.089	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
1,4-Dichlorobenzene	ND	0.38	0.094	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
3,3-Dichlorobenzidine	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2,4-Dichlorophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Diethylphthalate	ND	0.38	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2,4-Dimethylphenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Dimethylphthalate	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
4,6-Dinitro-2-methylphenol	ND	0.38	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2,4-Dinitrophenol	ND	0.74	0.38	mg/Kg dry	1	V-19	SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Di-n-octylphthalate	ND	0.75	0.52	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Fluoranthene	ND	0.19	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Fluorene	ND	0.19	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Hexachlorobenzene	ND	0.38	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Hexachlorobutadiene	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Hexachlorocyclopentadiene	ND	0.38	0.25	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Hexachloroethane	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Indeno(1,2,3-cd)pyrene	ND	0.19	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Isophorone	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.19	0.072	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2-Methylnaphthalene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2-Methylphenol	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
3/4-Methylphenol	ND	0.38	0.21	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Naphthalene	ND	0.19	0.084	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Nitrobenzene	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2-Nitrophenol	ND	0.38	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
4-Nitrophenol	ND	0.74	0.66	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 21:39	CMR
N-Nitrosodiphenylamine	ND	0.38	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
N-Nitrosodi-n-propylamine	ND	0.38	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Pentachlorophenol	ND	0.38	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Phenanthrene	ND	0.19	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Phenol	ND	0.38	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
Pyrene	ND	0.19	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
1,2,4-Trichlorobenzene	ND	0.38	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR
2,4,6-Trichlorophenol	ND	0.38	0.25	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	45.0	30-130		7/22/13 21:39
Phenol-d6	49.1	30-130		7/22/13 21:39
Nitrobenzene-d5	49.1	30-130		7/22/13 21:39
2-Fluorobiphenyl	59.0	30-130		7/22/13 21:39
2,4,6-Tribromophenol	62.4	30-130		7/22/13 21:39
p-Terphenyl-d14	65.4	30-130		7/22/13 21:39

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/19/13	7/22/13 21:39	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
C19-C36 Aliphatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Unadjusted C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
C11-C22 Aromatics	ND	11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Acenaphthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Acenaphthylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Benzo(a)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Benzo(a)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Benzo(b)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Benzo(g,h,i)perylene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Benzo(k)fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Chrysene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Dibenz(a,h)anthracene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Fluoranthene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Fluorene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Indeno(1,2,3-cd)pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
2-Methylnaphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Naphthalene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Phenanthrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS
Pyrene	ND	0.11	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 17:50	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	63.3	40-140		7/24/13 17:50
o-Terphenyl (OTP)	70.4	40-140		7/24/13 17:50
2-Bromonaphthalene	85.1	40-140		7/24/13 17:50
2-Fluorobiphenyl	97.9	40-140		7/24/13 17:50

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.93

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
C5-C8 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
Unadjusted C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
C9-C12 Aliphatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
C9-C10 Aromatics	ND	13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
Benzene	ND	0.067	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
Ethylbenzene	ND	0.067	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.067	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
Naphthalene	ND	0.33	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
Toluene	ND	0.067	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
m+p Xylene	ND	0.13	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH
o-Xylene	ND	0.067	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:04	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	110	70-130		7/16/13 12:04
2,5-Dibromotoluene (PID)	105	70-130		7/16/13 12:04

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-3 Sampled: 7/11/2013 13:50

Sample ID: 13G0486-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.027	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
tert-Amyl Methyl Ether (TAME)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Benzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Bromobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Bromodichloromethane	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Bromoform	ND	0.0046	0.0016	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Bromomethane	ND	0.011	0.0020	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
2-Butanone (MEK)	ND	0.046	0.020	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
tert-Butyl Alcohol (TBA)	ND	0.046	0.024	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/18/13 17:03	MFF
n-Butylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Carbon Tetrachloride	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Chlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Chlorodibromomethane	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Chloroform	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Chloromethane	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
2-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
4-Chlorotoluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,2-Dibromoethane (EDB)	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,2-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,3-Dichlorobenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,4-Dichlorobenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,1-Dichloroethane	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,1-Dichloroethylene	ND	0.0046	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
cis-1,2-Dichloroethylene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,3-Dichloropropane	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
2,2-Dichloropropane	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
cis-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
trans-1,3-Dichloropropene	ND	0.0011	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Diisopropyl Ether (DIPE)	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Ethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
2-Hexanone (MBK)	ND	0.023	0.013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Isopropylbenzene (Cumene)	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Methyl tert-Butyl Ether (MTBE)	ND	0.0046	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.023	0.0082	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0087	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Naphthalene	ND	0.0046	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
n-Propylbenzene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Styrene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Toluene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,2,3-Trichlorobenzene	ND	0.011	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,2,4-Trichlorobenzene	ND	0.011	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,2,3-Trichloropropane	ND	0.0023	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,2,4-Trimethylbenzene	ND	0.0023	0.00092	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
1,3,5-Trimethylbenzene	ND	0.0023	0.00069	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Vinyl Acetate	ND	0.011	0.0077	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/18/13 17:03	MFF
Vinyl Chloride	ND	0.011	0.0013	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
m+p Xylene	ND	0.0046	0.0020	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF
o-Xylene	ND	0.0023	0.00080	mg/Kg dry	1		SW-846 8260B	7/18/13	7/18/13 17:03	MFF

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	117	70-130		7/18/13 17:03
Toluene-d8	100	70-130		7/18/13 17:03
4-Bromofluorobenzene	98.3	70-130		7/18/13 17:03

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.013	mg/Kg dry	149856	2.584	1	000110-54-3	SW-846 8260C	7/18/13	7/18/13 17:03	MFF
Propene	0.0077	mg/Kg dry	90593	0.962	1	000115-07-1	SW-846 8260C	7/18/13	7/18/13 17:03	MFF

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Acenaphthylene	ND	0.20	0.095	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Benzo(a)anthracene	ND	0.20	0.089	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Benzo(a)pyrene	ND	0.20	0.069	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Benzo(b)fluoranthene	ND	0.20	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Bis(2-chloroethoxy)methane	ND	0.39	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Bis(2-chloroethyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Bis(2-chloroisopropyl)ether	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.39	0.088	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
4-Bromophenylphenylether	ND	0.39	0.097	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Butylbenzylphthalate	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
4-Chloroaniline	ND	0.76	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
4-Chloro-3-methylphenol	ND	0.76	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2-Chloronaphthalene	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2-Chlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
4-Chlorophenylphenylether	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Dibenzofuran	ND	0.39	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Di-n-butylphthalate	ND	0.39	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
1,2-Dichlorobenzene	ND	0.39	0.079	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
1,3-Dichlorobenzene	ND	0.39	0.092	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
1,4-Dichlorobenzene	ND	0.39	0.097	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
3,3-Dichlorobenzidine	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2,4-Dichlorophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Diethylphthalate	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2,4-Dimethylphenol	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Dimethylphthalate	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
4,6-Dinitro-2-methylphenol	ND	0.39	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2,4-Dinitrophenol	ND	0.76	0.39	mg/Kg dry	1	V-19	SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Di-n-octylphthalate	ND	0.77	0.54	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.39	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Fluorene	ND	0.20	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Hexachlorobenzene	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Hexachlorobutadiene	ND	0.39	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Hexachlorocyclopentadiene	ND	0.39	0.26	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Hexachloroethane	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Isophorone	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.075	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2-Methylnaphthalene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2-Methylphenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
3/4-Methylphenol	ND	0.39	0.22	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Naphthalene	ND	0.20	0.087	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Nitrobenzene	ND	0.39	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2-Nitrophenol	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
4-Nitrophenol	ND	0.76	0.69	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 22:10	CMR
N-Nitrosodiphenylamine	ND	0.39	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
N-Nitrosodi-n-propylamine	ND	0.39	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Pentachlorophenol	ND	0.39	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Phenol	ND	0.39	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
1,2,4-Trichlorobenzene	ND	0.39	0.095	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR
2,4,6-Trichlorophenol	ND	0.39	0.25	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	57.4	30-130		7/22/13 22:10
Phenol-d6	61.2	30-130		7/22/13 22:10
Nitrobenzene-d5	59.2	30-130		7/22/13 22:10
2-Fluorobiphenyl	66.0	30-130		7/22/13 22:10
2,4,6-Tribromophenol	69.8	30-130		7/22/13 22:10
p-Terphenyl-d14	90.1	30-130		7/22/13 22:10

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg dry			1		SW-846 8270D	7/19/13	7/22/13 22:10	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:11	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	62.2	40-140		7/24/13 18:11
o-Terphenyl (OTP)	55.2	40-140		7/24/13 18:11
2-Bromonaphthalene	68.6	40-140		7/24/13 18:11
2-Fluorobiphenyl	80.3	40-140		7/24/13 18:11

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 1.13

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
C5-C8 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
Unadjusted C9-C12 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
C9-C12 Aliphatics	ND	12	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
C9-C10 Aromatics	ND	12	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
Benzene	ND	0.060	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
Ethylbenzene	ND	0.060	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.060	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
Naphthalene	ND	0.30	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
Toluene	ND	0.060	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
m+p Xylene	ND	0.12	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH
o-Xylene	ND	0.060	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 12:40	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	107	70-130		7/16/13 12:40
2,5-Dibromotoluene (PID)	101	70-130		7/16/13 12:40

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-4 Sampled: 7/11/2013 14:00

Sample ID: 13G0486-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.7		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	0.026	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Benzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Bromobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Bromochloromethane	ND	0.0023	0.0016	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Bromodichloromethane	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Bromoform	ND	0.0045	0.0016	mg/Kg dry	1	L-04, V-05	SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Bromomethane	ND	0.011	0.0019	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
2-Butanone (MEK)	ND	0.045	0.020	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
tert-Butyl Alcohol (TBA)	ND	0.045	0.024	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/19/13 9:41	LBD
n-Butylbenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
sec-Butylbenzene	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
tert-Butylbenzene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.0011	0.00068	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Carbon Tetrachloride	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Chlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Chlorodibromomethane	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Chloroethane	ND	0.023	0.0017	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Chloroform	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Chloromethane	ND	0.011	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
2-Chlorotoluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
4-Chlorotoluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,2-Dibromoethane (EDB)	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,2-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,3-Dichlorobenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,4-Dichlorobenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,1-Dichloroethane	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,2-Dichloroethane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,1-Dichloroethylene	ND	0.0045	0.0012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
cis-1,2-Dichloroethylene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
trans-1,2-Dichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,2-Dichloropropane	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,3-Dichloropropane	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
2,2-Dichloropropane	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,1-Dichloropropene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
cis-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
trans-1,3-Dichloropropene	ND	0.0011	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Diisopropyl Ether (DIPE)	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Ethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
2-Hexanone (MBK)	ND	0.023	0.012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Isopropylbenzene (Cumene)	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.0045	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	0.012	0.023	0.0080	mg/Kg dry	1	J	SW-846 8260B	7/18/13	7/19/13 9:41	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.023	0.0086	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Naphthalene	ND	0.0045	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
n-Propylbenzene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Styrene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,1,1,2-Tetrachloroethane	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,1,2,2-Tetrachloroethane	ND	0.0011	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Tetrachloroethylene	ND	0.0023	0.0015	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Toluene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,2,3-Trichlorobenzene	ND	0.011	0.00068	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,2,4-Trichlorobenzene	ND	0.011	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,1,1-Trichloroethane	ND	0.0023	0.0011	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,1,2-Trichloroethane	ND	0.0023	0.0014	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Trichloroethylene	ND	0.0023	0.0010	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Trichlorofluoromethane (Freon 11)	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,2,3-Trichloropropane	ND	0.0023	0.0012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,2,4-Trimethylbenzene	ND	0.0023	0.00091	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
1,3,5-Trimethylbenzene	ND	0.0023	0.00068	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Vinyl Acetate	ND	0.011	0.0076	mg/Kg dry	1	V-16	SW-846 8260B	7/18/13	7/19/13 9:41	LBD
Vinyl Chloride	ND	0.011	0.0012	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
m+p Xylene	ND	0.0045	0.0019	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD
o-Xylene	ND	0.0023	0.00079	mg/Kg dry	1		SW-846 8260B	7/18/13	7/19/13 9:41	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	117	70-130		7/19/13 9:41
Toluene-d8	101	70-130		7/19/13 9:41
4-Bromofluorobenzene	97.7	70-130		7/19/13 9:41

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexane	0.0057	mg/Kg dry	63679	2.584	1	000110-54-3	SW-846 8260C	7/18/13	7/19/13 9:41	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.20	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Acenaphthylene	ND	0.20	0.098	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Anthracene	ND	0.20	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Benzo(a)anthracene	ND	0.20	0.092	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Benzo(a)pyrene	ND	0.20	0.072	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Benzo(b)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Benzo(g,h,i)perylene	ND	0.20	0.16	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Benzo(k)fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Benzoic Acid	ND	1.2	1.1	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Bis(2-chloroethoxy)methane	ND	0.41	0.15	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Bis(2-chloroethyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Bis(2-chloroisopropyl)ether	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Bis(2-Ethylhexyl)phthalate	ND	0.41	0.091	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
4-Bromophenylphenylether	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Butylbenzylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
4-Chloroaniline	ND	0.79	0.20	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
4-Chloro-3-methylphenol	ND	0.79	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2-Chloronaphthalene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2-Chlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
4-Chlorophenylphenylether	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Chrysene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Dibenz(a,h)anthracene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Dibenzofuran	ND	0.41	0.094	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Di-n-butylphthalate	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
1,2-Dichlorobenzene	ND	0.41	0.081	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
1,3-Dichlorobenzene	ND	0.41	0.096	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
1,4-Dichlorobenzene	ND	0.41	0.10	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
3,3-Dichlorobenzidine	ND	0.20	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2,4-Dichlorophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Diethylphthalate	ND	0.41	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2,4-Dimethylphenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Dimethylphthalate	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
4,6-Dinitro-2-methylphenol	ND	0.41	0.17	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2,4-Dinitrophenol	ND	0.79	0.41	mg/Kg dry	1	V-19	SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Di-n-octylphthalate	ND	0.80	0.56	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Fluoranthene	ND	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Fluorene	ND	0.20	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Hexachlorobenzene	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Hexachlorobutadiene	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Hexachlorocyclopentadiene	ND	0.41	0.27	mg/Kg dry	1	L-04	SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Hexachloroethane	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Indeno(1,2,3-cd)pyrene	ND	0.20	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Isophorone	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
1-Methylnaphthalene	ND	0.20	0.078	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2-Methylnaphthalene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2-Methylphenol	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
3/4-Methylphenol	ND	0.41	0.23	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Naphthalene	ND	0.20	0.090	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Nitrobenzene	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2-Nitrophenol	ND	0.41	0.12	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
4-Nitrophenol	ND	0.79	0.71	mg/Kg dry	1	V-05	SW-846 8270D	7/19/13	7/22/13 22:42	CMR
N-Nitrosodiphenylamine	ND	0.41	0.19	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
N-Nitrosodi-n-propylamine	ND	0.41	0.13	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Pentachlorophenol	ND	0.41	0.16	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Phenanthrene	ND	0.20	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Phenol	ND	0.41	0.11	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
Pyrene	ND	0.20	0.14	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
1,2,4-Trichlorobenzene	ND	0.41	0.098	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR
2,4,6-Trichlorophenol	ND	0.41	0.26	mg/Kg dry	1		SW-846 8270D	7/19/13	7/22/13 22:42	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	56.3	30-130		7/22/13 22:42
Phenol-d6	57.9	30-130		7/22/13 22:42
Nitrobenzene-d5	58.1	30-130		7/22/13 22:42
2-Fluorobiphenyl	73.1	30-130		7/22/13 22:42
2,4,6-Tribromophenol	69.6	30-130		7/22/13 22:42
p-Terphenyl-d14	83.8	30-130		7/22/13 22:42

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
9-Octadecenamide, (Z)-	1.4	mg/Kg dry	524375	14.108	1	000301-02-0	SW-846 8270D	7/19/13	7/22/13 22:42	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
C19-C36 Aliphatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Unadjusted C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
C11-C22 Aromatics	ND	12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Acenaphthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Acenaphthylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Benzo(a)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Benzo(a)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Benzo(b)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Benzo(g,h,i)perylene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Benzo(k)fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Chrysene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Dibenz(a,h)anthracene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Fluoranthene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Fluorene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Indeno(1,2,3-cd)pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
2-Methylnaphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Naphthalene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Phenanthrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS
Pyrene	ND	0.12	mg/Kg dry	1		MADEP-EPH-04-1.1	7/24/13	7/24/13 18:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	71.2	40-140		7/24/13 18:32
o-Terphenyl (OTP)	69.2	40-140		7/24/13 18:32
2-Bromonaphthalene	70.0	40-140		7/24/13 18:32
2-Fluorobiphenyl	85.6	40-140		7/24/13 18:32

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses - VPH

Soil/Methanol Preservation Ratio: 0.98

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
C5-C8 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
Unadjusted C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
C9-C12 Aliphatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
C9-C10 Aromatics	ND	15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
Benzene	ND	0.073	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
Ethylbenzene	ND	0.073	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
Methyl tert-Butyl Ether (MTBE)	ND	0.073	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
Naphthalene	ND	0.36	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
Toluene	ND	0.073	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
m+p Xylene	ND	0.15	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH
o-Xylene	ND	0.073	mg/Kg dry	1		MADEP-VPH-04-1.1	7/15/13	7/16/13 13:16	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	119	70-130		7/16/13 13:16
2,5-Dibromotoluene (PID)	113	70-130		7/16/13 13:16

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: NVM UST-5 Sampled: 7/11/2013 14:10

Sample ID: 13G0486-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/15/13	7/16/13 12:04	RH

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: Trip Blank Sampled: 7/11/2013 14:10

Sample ID: 13G0486-06

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.10	0.023	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Benzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Bromobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Bromochloromethane	ND	0.0020	0.0014	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Bromodichloromethane	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Bromoform	ND	0.0040	0.0014	mg/Kg wet	1	L-04, V-05	SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Bromomethane	ND	0.010	0.0017	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
2-Butanone (MEK)	ND	0.040	0.018	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
tert-Butyl Alcohol (TBA)	ND	0.040	0.021	mg/Kg wet	1	V-16	SW-846 8260B	7/18/13	7/19/13 9:13	LBD
n-Butylbenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
sec-Butylbenzene	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
tert-Butylbenzene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	0.00060	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Carbon Tetrachloride	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Chlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Chlorodibromomethane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Chloroethane	ND	0.020	0.0015	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Chloroform	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Chloromethane	ND	0.010	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
2-Chlorotoluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
4-Chlorotoluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,2-Dibromoethane (EDB)	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,2-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,3-Dichlorobenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,4-Dichlorobenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.020	0.0013	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,1-Dichloroethane	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,2-Dichloroethane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,1-Dichloroethylene	ND	0.0040	0.0011	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
cis-1,2-Dichloroethylene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
trans-1,2-Dichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,2-Dichloropropane	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,3-Dichloropropane	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
2,2-Dichloropropane	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,1-Dichloropropene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
cis-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
trans-1,3-Dichloropropene	ND	0.0010	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Diisopropyl Ether (DIPE)	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Ethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
2-Hexanone (MBK)	ND	0.020	0.011	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Isopropylbenzene (Cumene)	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: Trip Blank Sampled: 7/11/2013 14:10

Sample ID: 13G0486-06

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Methylene Chloride	ND	0.020	0.0071	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.020	0.0076	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Naphthalene	ND	0.0040	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
n-Propylbenzene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Styrene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,1,1,2-Tetrachloroethane	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,1,2,2-Tetrachloroethane	ND	0.0010	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Tetrachloroethylene	ND	0.0020	0.0013	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Toluene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,2,3-Trichlorobenzene	ND	0.010	0.00060	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,2,4-Trichlorobenzene	ND	0.010	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,1,1-Trichloroethane	ND	0.0020	0.0010	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,1,2-Trichloroethane	ND	0.0020	0.0012	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Trichloroethylene	ND	0.0020	0.00090	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Trichlorofluoromethane (Freon 11)	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,2,3-Trichloropropane	ND	0.0020	0.0011	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,2,4-Trimethylbenzene	ND	0.0020	0.00080	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
1,3,5-Trimethylbenzene	ND	0.0020	0.00060	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Vinyl Acetate	ND	0.010	0.0067	mg/Kg wet	1	V-16	SW-846 8260B	7/18/13	7/19/13 9:13	LBD
Vinyl Chloride	ND	0.010	0.0011	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
m+p Xylene	ND	0.0040	0.0017	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD
o-Xylene	ND	0.0020	0.00070	mg/Kg wet	1		SW-846 8260B	7/18/13	7/19/13 9:13	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	113	70-130		7/19/13 9:13
Toluene-d8	101	70-130		7/19/13 9:13
4-Bromofluorobenzene	96.4	70-130		7/19/13 9:13

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Naphtha, Varsol, Methanol USTs Sample Description: Work Order: 13G0486

Date Received: 7/12/2013

Field Sample #: Trip Blank Sampled: 7/11/2013 14:10

Sample ID: 13G0486-06

Sample Matrix: Trip Blank Soil

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	mg/Kg wet			1		SW-846 8260C	7/18/13	7/19/13 9:13	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0486-01 [NVM UST-1]	B077333	20.1	2.00	07/24/13
13G0486-02 [NVM UST-2]	B077333	20.2	2.00	07/24/13
13G0486-03 [NVM UST-3]	B077333	20.0	2.00	07/24/13
13G0486-04 [NVM UST-4]	B077333	20.0	2.00	07/24/13
13G0486-05 [NVM UST-5]	B077333	20.0	2.00	07/24/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0486-01 [NVM UST-1]	B076746	13.9	16.7	07/15/13
13G0486-02 [NVM UST-2]	B076746	14.4	17.2	07/15/13
13G0486-03 [NVM UST-3]	B076746	13.9	16.6	07/15/13
13G0486-04 [NVM UST-4]	B076746	16.9	17.5	07/15/13
13G0486-05 [NVM UST-5]	B076746	14.7	17.7	07/15/13

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0486-01 [NVM UST-1]	B076775	07/15/13
13G0486-02 [NVM UST-2]	B076775	07/15/13
13G0486-03 [NVM UST-3]	B076775	07/15/13
13G0486-04 [NVM UST-4]	B076775	07/15/13
13G0486-05 [NVM UST-5]	B076775	07/15/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0486-01 [NVM UST-1]	B077041	4.85	10.0	07/18/13
13G0486-02 [NVM UST-2]	B077041	5.13	10.0	07/18/13
13G0486-03 [NVM UST-3]	B077041	5.60	10.0	07/18/13
13G0486-04 [NVM UST-4]	B077041	5.08	10.0	07/18/13

Prep Method: SW-846 5035-SW-846 8260B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0486-05 [NVM UST-5]	B077058	5.35	10.0	07/18/13
13G0486-06 [Trip Blank]	B077058	5.00	10.0	07/18/13

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0486-01 [NVM UST-1]	B077054	30.4	1.00	07/19/13
13G0486-02 [NVM UST-2]	B077054	30.0	1.00	07/19/13
13G0486-03 [NVM UST-3]	B077054	30.2	1.00	07/19/13
13G0486-04 [NVM UST-4]	B077054	30.3	1.00	07/19/13
13G0486-05 [NVM UST-5]	B077054	30.4	1.00	07/19/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077041 - SW-846 5035										
Blank (B077041-BLK1)				Prepared & Analyzed: 07/18/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B077041 - SW-846 5035											
Blank (B077041-BLK1)				Prepared & Analyzed: 07/18/13							
Toluene	ND	0.0020	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet								
Trichloroethylene	ND	0.0020	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Acetate	ND	0.010	mg/Kg wet							V-16	
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0537*		mg/Kg wet	0.0500		107	70-130				
Surrogate: Toluene-d8	*0.0500*		mg/Kg wet	0.0500		99.9	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0491*		mg/Kg wet	0.0500		98.2	70-130				
LCS (B077041-BS1)				Prepared & Analyzed: 07/18/13							
Acetone	0.215	0.10	mg/Kg wet	0.200		107	70-160		25		†
tert-Amyl Methyl Ether (TAME)	0.0233	0.0010	mg/Kg wet	0.0200		116	70-130		25		
Benzene	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130		25		
Bromobenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Bromochloromethane	0.0244	0.0020	mg/Kg wet	0.0200		122	70-130		25		
Bromodichloromethane	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130		25		
Bromoform	0.0156	0.0020	mg/Kg wet	0.0200		78.0	70-130		25		
Bromomethane	0.0182	0.010	mg/Kg wet	0.0200		91.1	40-130		25	V-20	†
2-Butanone (MEK)	0.240	0.040	mg/Kg wet	0.200		120	70-160		25	V-20	†
tert-Butyl Alcohol (TBA)	0.222	0.040	mg/Kg wet	0.200		111	40-130		25	V-16	†
n-Butylbenzene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130		25		
sec-Butylbenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130		25		
tert-Butylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		105	70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0242	0.0010	mg/Kg wet	0.0200		121	70-130		25		
Carbon Tetrachloride	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130		25		
Chlorobenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130		25		
Chlorodibromomethane	0.0182	0.0010	mg/Kg wet	0.0200		91.2	70-130		25		
Chloroethane	0.0218	0.020	mg/Kg wet	0.0200		109	70-130		25		
Chloroform	0.0223	0.0040	mg/Kg wet	0.0200		112	70-130		25		
Chloromethane	0.0147	0.010	mg/Kg wet	0.0200		73.7	70-130		25		
2-Chlorotoluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		25		
4-Chlorotoluene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130		25		
1,2-Dibromoethane (EDB)	0.0222	0.0010	mg/Kg wet	0.0200		111	70-130		25		
1,2-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,3-Dichlorobenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0148	0.020	mg/Kg wet	0.0200		74.2	40-160		25	J	†
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130		25		
1,2-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130		25		
1,1-Dichloroethylene	0.0238	0.0040	mg/Kg wet	0.0200		119	70-130		25		
cis-1,2-Dichloroethylene	0.0225	0.0020	mg/Kg wet	0.0200		112	70-130		25		
trans-1,2-Dichloroethylene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130		25		
1,2-Dichloropropane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130		25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B077041 - SW-846 5035											
LCS (B077041-BS1)				Prepared & Analyzed: 07/18/13							
1,3-Dichloropropane	0.0243	0.0010	mg/Kg wet	0.0200		122	70-130		25		
2,2-Dichloropropane	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130		25		
1,1-Dichloropropene	0.0234	0.0020	mg/Kg wet	0.0200		117	70-130		25		
cis-1,3-Dichloropropene	0.0200	0.0010	mg/Kg wet	0.0200		100	70-130		25		
trans-1,3-Dichloropropene	0.0224	0.0010	mg/Kg wet	0.0200		112	70-130		25		
Diisopropyl Ether (DIPE)	0.0249	0.0010	mg/Kg wet	0.0200		125	70-130		25		
Ethylbenzene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130		25		
2-Hexanone (MBK)	0.241	0.020	mg/Kg wet	0.200		120	70-160		25		†
Isopropylbenzene (Cumene)	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0259	0.0040	mg/Kg wet	0.0200		129	70-130		25		
Methylene Chloride	0.0238	0.020	mg/Kg wet	0.0200		119	40-160		25		†
4-Methyl-2-pentanone (MIBK)	0.245	0.020	mg/Kg wet	0.200		122	70-160		25		†
Naphthalene	0.0202	0.0040	mg/Kg wet	0.0200		101	40-130		25		†
n-Propylbenzene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130		25		
Styrene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130		25		
1,1,1,2-Tetrachloroethane	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130		25		
1,1,2,2-Tetrachloroethane	0.0237	0.0010	mg/Kg wet	0.0200		119	70-130		25		
Tetrachloroethylene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Toluene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130		25		
1,2,3-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130		25		
1,2,4-Trichlorobenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.8	70-130		25		
1,1,1-Trichloroethane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130		25		
1,1,2-Trichloroethane	0.0226	0.0020	mg/Kg wet	0.0200		113	70-130		25		
Trichloroethylene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		115	70-130		25		
1,2,3-Trichloropropane	0.0256	0.0020	mg/Kg wet	0.0200		128	70-130		25		
1,2,4-Trimethylbenzene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,3,5-Trimethylbenzene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130		25		
Vinyl Acetate	0.220	0.010	mg/Kg wet	0.200		110	70-130		25	V-16	
Vinyl Chloride	0.0178	0.010	mg/Kg wet	0.0200		89.1	40-130		25		†
m+p Xylene	0.0425	0.0040	mg/Kg wet	0.0400		106	70-130		25		
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0546*		mg/Kg wet	0.0500		109	70-130				
Surrogate: Toluene-d8	*0.0505*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0512*		mg/Kg wet	0.0500		102	70-130				
LCS Dup (B077041-BSD1)				Prepared & Analyzed: 07/18/13							
Acetone	0.206	0.10	mg/Kg wet	0.200		103	70-160	4.28	25		†
tert-Amyl Methyl Ether (TAME)	0.0228	0.0010	mg/Kg wet	0.0200		114	70-130	1.82	25		
Benzene	0.0217	0.0020	mg/Kg wet	0.0200		108	70-130	0.277	25		
Bromobenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	4.97	25		
Bromochloromethane	0.0245	0.0020	mg/Kg wet	0.0200		122	70-130	0.410	25		
Bromodichloromethane	0.0197	0.0020	mg/Kg wet	0.0200		98.5	70-130	4.08	25		
Bromoform	0.0151	0.0020	mg/Kg wet	0.0200		75.3	70-130	3.52	25		
Bromomethane	0.0228	0.010	mg/Kg wet	0.0200		114	40-130	22.4	25	V-20	†
2-Butanone (MEK)	0.236	0.040	mg/Kg wet	0.200		118	70-160	1.60	25	V-20	†
tert-Butyl Alcohol (TBA)	0.217	0.040	mg/Kg wet	0.200		109	40-130	2.20	25	V-16	†
n-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130	4.22	25		
sec-Butylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	2.98	25		
tert-Butylbenzene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-160	2.42	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0239	0.0010	mg/Kg wet	0.0200		119	70-130	1.25	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B077041 - SW-846 5035											
LCS Dup (B077041-BSD1)				Prepared & Analyzed: 07/18/13							
Carbon Tetrachloride	0.0174	0.0020	mg/Kg wet	0.0200		87.0	70-130	2.05	25		
Chlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		99.8	70-130	3.64	25		
Chlorodibromomethane	0.0181	0.0010	mg/Kg wet	0.0200		90.4	70-130	0.881	25		
Chloroethane	0.0223	0.020	mg/Kg wet	0.0200		112	70-130	2.36	25		
Chloroform	0.0220	0.0040	mg/Kg wet	0.0200		110	70-130	1.44	25		
Chloromethane	0.0149	0.010	mg/Kg wet	0.0200		74.3	70-130	0.811	25		
2-Chlorotoluene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	3.35	25		
4-Chlorotoluene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	6.04	25		
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108	70-130	2.37	25		
1,2-Dichlorobenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	1.37	25		
1,3-Dichlorobenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	0.681	25		
1,4-Dichlorobenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	4.56	25		
Dichlorodifluoromethane (Freon 12)	0.0150	0.020	mg/Kg wet	0.0200		74.8	40-160	0.805	25	J	†
1,1-Dichloroethane	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	0.264	25		
1,2-Dichloroethane	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	0.664	25		
1,1-Dichloroethylene	0.0237	0.0040	mg/Kg wet	0.0200		119	70-130	0.252	25		
cis-1,2-Dichloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130	0.974	25		
trans-1,2-Dichloroethylene	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130	0.0861	25		
1,2-Dichloropropane	0.0219	0.0020	mg/Kg wet	0.0200		110	70-130	0.365	25		
1,3-Dichloropropane	0.0231	0.0010	mg/Kg wet	0.0200		116	70-130	5.15	25		
2,2-Dichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.8	70-130	1.72	25		
1,1-Dichloropropene	0.0230	0.0020	mg/Kg wet	0.0200		115	70-130	1.64	25		
cis-1,3-Dichloropropene	0.0194	0.0010	mg/Kg wet	0.0200		97.1	70-130	3.04	25		
trans-1,3-Dichloropropene	0.0213	0.0010	mg/Kg wet	0.0200		107	70-130	5.03	25		
Diisopropyl Ether (DIPE)	0.0244	0.0010	mg/Kg wet	0.0200		122	70-130	2.03	25		
Ethylbenzene	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130	2.13	25		
2-Hexanone (MBK)	0.228	0.020	mg/Kg wet	0.200		114	70-160	5.34	25		†
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130	3.71	25		
p-Isopropyltoluene (p-Cymene)	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	2.54	25		
Methyl tert-Butyl Ether (MTBE)	0.0253	0.0040	mg/Kg wet	0.0200		126	70-130	2.27	25		
Methylene Chloride	0.0237	0.020	mg/Kg wet	0.0200		119	40-160	0.168	25		†
4-Methyl-2-pentanone (MIBK)	0.237	0.020	mg/Kg wet	0.200		118	70-160	3.24	25		†
Naphthalene	0.0197	0.0040	mg/Kg wet	0.0200		98.6	40-130	2.50	25		†
n-Propylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	5.73	25		
Styrene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130	3.71	25		
1,1,1,2-Tetrachloroethane	0.0184	0.0020	mg/Kg wet	0.0200		91.8	70-130	4.58	25		
1,1,2,2-Tetrachloroethane	0.0229	0.0010	mg/Kg wet	0.0200		114	70-130	3.60	25		
Tetrachloroethylene	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130	2.65	25		
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130	0.854	25		
1,2,3-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130	2.18	25		
1,2,4-Trichlorobenzene	0.0176	0.0020	mg/Kg wet	0.0200		88.2	70-130	5.08	25		
1,1,1-Trichloroethane	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130	1.02	25		
1,1,2-Trichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130	2.69	25		
Trichloroethylene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130	2.46	25		
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		115	70-130	0.00	25		
1,2,3-Trichloropropane	0.0240	0.0020	mg/Kg wet	0.0200		120	70-130	6.38	25		
1,2,4-Trimethylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.6	70-130	4.56	25		
1,3,5-Trimethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130	5.47	25		
Vinyl Acetate	0.209	0.010	mg/Kg wet	0.200		105	70-130	4.81	25	V-16	
Vinyl Chloride	0.0178	0.010	mg/Kg wet	0.0200		89.2	40-130	0.112	25		†
m+p Xylene	0.0416	0.0040	mg/Kg wet	0.0400		104	70-130	2.14	25		
o-Xylene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130	3.44	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077041 - SW-846 5035										
LCS Dup (B077041-BSD1)				Prepared & Analyzed: 07/18/13						
Surrogate: 1,2-Dichloroethane-d4	*0.0542*		mg/Kg wet	0.0500		108	70-130			
Surrogate: Toluene-d8	*0.0504*		mg/Kg wet	0.0500		101	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0512*		mg/Kg wet	0.0500		102	70-130			
Batch B077058 - SW-846 5035										
Blank (B077058-BLK1)				Prepared: 07/18/13 Analyzed: 07/19/13						
Acetone	ND	0.10	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.0010	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromochloromethane	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							L-04, V-05
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
tert-Butyl Alcohol (TBA)	ND	0.040	mg/Kg wet							V-16
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.0010	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B077058 - SW-846 5035												
Blank (B077058-BLK1)				Prepared: 07/18/13 Analyzed: 07/19/13								
Naphthalene	ND	0.0040	mg/Kg wet									
n-Propylbenzene	ND	0.0020	mg/Kg wet									
Styrene	ND	0.0020	mg/Kg wet									
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet									
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet									
Tetrachloroethylene	ND	0.0020	mg/Kg wet									
Toluene	ND	0.0020	mg/Kg wet									
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet									
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet									
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet									
Trichloroethylene	ND	0.0020	mg/Kg wet									
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet									
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet									
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet									
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet									
Vinyl Acetate	ND	0.010	mg/Kg wet								V-16	
Vinyl Chloride	ND	0.010	mg/Kg wet									
m+p Xylene	ND	0.0040	mg/Kg wet									
o-Xylene	ND	0.0020	mg/Kg wet									
Surrogate: 1,2-Dichloroethane-d4	*0.0552*		mg/Kg wet	0.0500		110		70-130				
Surrogate: Toluene-d8	*0.0501*		mg/Kg wet	0.0500		100		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0482*		mg/Kg wet	0.0500		96.4		70-130				
LCS (B077058-BS1)				Prepared: 07/18/13 Analyzed: 07/19/13								
Acetone	0.225	0.10	mg/Kg wet	0.200		112		70-160		25	V-20	†
tert-Amyl Methyl Ether (TAME)	0.0209	0.0010	mg/Kg wet	0.0200		104		70-130		25		
Benzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130		25		
Bromobenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.4		70-130		25		
Bromochloromethane	0.0235	0.0020	mg/Kg wet	0.0200		117		70-130		25		
Bromodichloromethane	0.0186	0.0020	mg/Kg wet	0.0200		93.2		70-130		25		
Bromoform	0.0130	0.0020	mg/Kg wet	0.0200		**65.2**	*	70-130		25	L-04, V-05	
Bromomethane	0.0183	0.010	mg/Kg wet	0.0200		91.4		40-130		25	V-20	†
2-Butanone (MEK)	0.235	0.040	mg/Kg wet	0.200		118		70-160		25	V-20	†
tert-Butyl Alcohol (TBA)	0.142	0.040	mg/Kg wet	0.200		70.9		40-130		25	V-16	†
n-Butylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.7		70-130		25		
sec-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9		70-130		25		
tert-Butylbenzene	0.0191	0.0020	mg/Kg wet	0.0200		95.6		70-160		25		†
tert-Butyl Ethyl Ether (TBEE)	0.0230	0.0010	mg/Kg wet	0.0200		115		70-130		25		
Carbon Tetrachloride	0.0155	0.0020	mg/Kg wet	0.0200		77.7		70-130		25		
Chlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2		70-130		25		
Chlorodibromomethane	0.0165	0.0010	mg/Kg wet	0.0200		82.4		70-130		25		
Chloroethane	0.0224	0.020	mg/Kg wet	0.0200		112		70-130		25		
Chloroform	0.0217	0.0040	mg/Kg wet	0.0200		109		70-130		25		
Chloromethane	0.0142	0.010	mg/Kg wet	0.0200		71.1		70-130		25		
2-Chlorotoluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4		70-130		25		
4-Chlorotoluene	0.0200	0.0020	mg/Kg wet	0.0200		99.8		70-130		25		
1,2-Dibromoethane (EDB)	0.0203	0.0010	mg/Kg wet	0.0200		101		70-130		25		
1,2-Dichlorobenzene	0.0188	0.0020	mg/Kg wet	0.0200		94.2		70-130		25		
1,3-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.5		70-130		25		
1,4-Dichlorobenzene	0.0195	0.0020	mg/Kg wet	0.0200		97.5		70-130		25		
Dichlorodifluoromethane (Freon 12)	0.0125	0.020	mg/Kg wet	0.0200		62.6		40-160		25	J	†

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B077058 - SW-846 5035											
LCS (B077058-BS1)				Prepared: 07/18/13 Analyzed: 07/19/13							
1,1-Dichloroethane	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130		25		
1,2-Dichloroethane	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,1-Dichloroethylene	0.0243	0.0040	mg/Kg wet	0.0200		121	70-130		25		
cis-1,2-Dichloroethylene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130		25		
trans-1,2-Dichloroethylene	0.0227	0.0020	mg/Kg wet	0.0200		114	70-130		25		
1,2-Dichloropropane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130		25		
1,3-Dichloropropane	0.0221	0.0010	mg/Kg wet	0.0200		111	70-130		25		
2,2-Dichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.3	70-130		25		
1,1-Dichloropropene	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130		25		
cis-1,3-Dichloropropene	0.0182	0.0010	mg/Kg wet	0.0200		91.2	70-130		25		
trans-1,3-Dichloropropene	0.0191	0.0010	mg/Kg wet	0.0200		95.6	70-130		25		
Diisopropyl Ether (DIPE)	0.0244	0.0010	mg/Kg wet	0.0200		122	70-130		25		
Ethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130		25		
2-Hexanone (MBK)	0.223	0.020	mg/Kg wet	0.200		112	70-160		25	V-20	†
Isopropylbenzene (Cumene)	0.0194	0.0020	mg/Kg wet	0.0200		97.0	70-130		25		
p-Isopropyltoluene (p-Cymene)	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130		25		
Methyl tert-Butyl Ether (MTBE)	0.0244	0.0040	mg/Kg wet	0.0200		122	70-130		25		
Methylene Chloride	0.0277	0.020	mg/Kg wet	0.0200		138	40-160		25	V-20	†
4-Methyl-2-pentanone (MIBK)	0.228	0.020	mg/Kg wet	0.200		114	70-160		25		†
Naphthalene	0.0166	0.0040	mg/Kg wet	0.0200		83.2	40-130		25		†
n-Propylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130		25		
Styrene	0.0195	0.0020	mg/Kg wet	0.0200		97.5	70-130		25		
1,1,1,2-Tetrachloroethane	0.0165	0.0020	mg/Kg wet	0.0200		82.3	70-130		25		
1,1,2,2-Tetrachloroethane	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130		25		
Tetrachloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130		25		
Toluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130		25		
1,2,3-Trichlorobenzene	0.0154	0.0020	mg/Kg wet	0.0200		76.9	70-130		25		
1,2,4-Trichlorobenzene	0.0153	0.0020	mg/Kg wet	0.0200		76.5	70-130		25		
1,1,1-Trichloroethane	0.0183	0.0020	mg/Kg wet	0.0200		91.3	70-130		25		
1,1,2-Trichloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130		25		
Trichloroethylene	0.0199	0.0020	mg/Kg wet	0.0200		99.3	70-130		25		
Trichlorofluoromethane (Freon 11)	0.0238	0.010	mg/Kg wet	0.0200		119	70-130		25		
1,2,3-Trichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		112	70-130		25		
1,2,4-Trimethylbenzene	0.0188	0.0020	mg/Kg wet	0.0200		93.9	70-130		25		
1,3,5-Trimethylbenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.4	70-130		25		
Vinyl Acetate	0.204	0.010	mg/Kg wet	0.200		102	70-130		25	V-16	
Vinyl Chloride	0.0174	0.010	mg/Kg wet	0.0200		87.0	40-130		25		†
m+p Xylene	0.0397	0.0040	mg/Kg wet	0.0400		99.2	70-130		25		
o-Xylene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130		25		
Surrogate: 1,2-Dichloroethane-d4	*0.0536*		mg/Kg wet	0.0500		107	70-130				
Surrogate: Toluene-d8	*0.0506*		mg/Kg wet	0.0500		101	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0504*		mg/Kg wet	0.0500		101	70-130				

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B077058 - SW-846 5035												
LCS Dup (B077058-BSD1)				Prepared: 07/18/13 Analyzed: 07/19/13								
Acetone	0.232	0.10	mg/Kg wet	0.200		116		70-160	3.08	25	V-20	†
tert-Amyl Methyl Ether (TAME)	0.0214	0.0010	mg/Kg wet	0.0200		107		70-130	2.27	25		
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	2.81	25		
Bromobenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.3		70-130	4.01	25		
Bromochloromethane	0.0243	0.0020	mg/Kg wet	0.0200		121		70-130	3.35	25		
Bromodichloromethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8		70-130	3.79	25		
Bromoform	0.0126	0.0020	mg/Kg wet	0.0200		**63.2**	*	70-130	3.12	25	L-04, V-05	
Bromomethane	0.0227	0.010	mg/Kg wet	0.0200		113		40-130	21.4	25	V-20	†
2-Butanone (MEK)	0.239	0.040	mg/Kg wet	0.200		119		70-160	1.54	25	V-20	†
tert-Butyl Alcohol (TBA)	0.136	0.040	mg/Kg wet	0.200		68.1		40-130	3.99	25	V-16	†
n-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130	2.85	25		
sec-Butylbenzene	0.0199	0.0020	mg/Kg wet	0.0200		99.5		70-130	2.65	25		
tert-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.9		70-160	1.35	25		†
tert-Butyl Ethyl Ether (TBEE)	0.0230	0.0010	mg/Kg wet	0.0200		115		70-130	0.174	25		
Carbon Tetrachloride	0.0159	0.0020	mg/Kg wet	0.0200		79.5		70-130	2.29	25		
Chlorobenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5		70-130	4.46	25		
Chlorodibromomethane	0.0167	0.0010	mg/Kg wet	0.0200		83.7		70-130	1.57	25		
Chloroethane	0.0222	0.020	mg/Kg wet	0.0200		111		70-130	0.987	25		
Chloroform	0.0222	0.0040	mg/Kg wet	0.0200		111		70-130	2.10	25		
Chloromethane	0.0146	0.010	mg/Kg wet	0.0200		72.8		70-130	2.36	25		
2-Chlorotoluene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130	6.10	25		
4-Chlorotoluene	0.0211	0.0020	mg/Kg wet	0.0200		105		70-130	5.46	25		
1,2-Dibromoethane (EDB)	0.0212	0.0010	mg/Kg wet	0.0200		106		70-130	4.62	25		
1,2-Dichlorobenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.0		70-130	1.89	25		
1,3-Dichlorobenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.0		70-130	2.61	25		
1,4-Dichlorobenzene	0.0200	0.0020	mg/Kg wet	0.0200		100		70-130	2.63	25		
Dichlorodifluoromethane (Freon 12)	0.0124	0.020	mg/Kg wet	0.0200		61.8		40-160	1.29	25	J	†
1,1-Dichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111		70-130	0.723	25		
1,2-Dichloroethane	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130	4.63	25		
1,1-Dichloroethylene	0.0246	0.0040	mg/Kg wet	0.0200		123		70-130	1.47	25		
cis-1,2-Dichloroethylene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130	2.57	25		
trans-1,2-Dichloroethylene	0.0231	0.0020	mg/Kg wet	0.0200		116		70-130	1.66	25		
1,2-Dichloropropane	0.0217	0.0020	mg/Kg wet	0.0200		109		70-130	0.831	25		
1,3-Dichloropropane	0.0229	0.0010	mg/Kg wet	0.0200		115		70-130	3.55	25		
2,2-Dichloropropane	0.0181	0.0020	mg/Kg wet	0.0200		90.3		70-130	0.00	25		
1,1-Dichloropropene	0.0231	0.0020	mg/Kg wet	0.0200		116		70-130	1.83	25		
cis-1,3-Dichloropropene	0.0187	0.0010	mg/Kg wet	0.0200		93.4		70-130	2.38	25		
trans-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.1		70-130	3.60	25		
Diisopropyl Ether (DIPE)	0.0244	0.0010	mg/Kg wet	0.0200		122		70-130	0.0819	25		
Ethylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130	4.53	25		
2-Hexanone (MBK)	0.227	0.020	mg/Kg wet	0.200		114		70-160	1.89	25	V-20	†
Isopropylbenzene (Cumene)	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	5.81	25		
p-Isopropyltoluene (p-Cymene)	0.0205	0.0020	mg/Kg wet	0.0200		102		70-130	2.27	25		
Methyl tert-Butyl Ether (MTBE)	0.0244	0.0040	mg/Kg wet	0.0200		122		70-130	0.0821	25		
Methylene Chloride	0.0283	0.020	mg/Kg wet	0.0200		142		40-160	2.22	25	V-20	†
4-Methyl-2-pentanone (MIBK)	0.234	0.020	mg/Kg wet	0.200		117		70-160	2.57	25		†
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.6		40-130	4.00	25		†
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107		70-130	5.75	25		
Styrene	0.0206	0.0020	mg/Kg wet	0.0200		103		70-130	5.68	25		
1,1,1,2-Tetrachloroethane	0.0164	0.0020	mg/Kg wet	0.0200		81.8		70-130	0.609	25		
1,1,2,2-Tetrachloroethane	0.0220	0.0010	mg/Kg wet	0.0200		110		70-130	3.13	25		
Tetrachloroethylene	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130	3.53	25		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B077058 - SW-846 5035											
LCS Dup (B077058-BSD1)				Prepared: 07/18/13 Analyzed: 07/19/13							
Toluene	0.0211	0.0020	mg/Kg wet	0.0200		106	70-130	2.50	25		
1,2,3-Trichlorobenzene	0.0161	0.0020	mg/Kg wet	0.0200		80.6	70-130	4.70	25		
1,2,4-Trichlorobenzene	0.0162	0.0020	mg/Kg wet	0.0200		80.8	70-130	5.47	25		
1,1,1-Trichloroethane	0.0185	0.0020	mg/Kg wet	0.0200		92.7	70-130	1.52	25		
1,1,2-Trichloroethane	0.0217	0.0020	mg/Kg wet	0.0200		109	70-130	4.13	25		
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		100	70-130	0.702	25		
Trichlorofluoromethane (Freon 11)	0.0242	0.010	mg/Kg wet	0.0200		121	70-130	1.58	25		
1,2,3-Trichloropropane	0.0227	0.0020	mg/Kg wet	0.0200		113	70-130	1.69	25		
1,2,4-Trimethylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130	2.32	25		
1,3,5-Trimethylbenzene	0.0202	0.0020	mg/Kg wet	0.0200		101	70-130	6.66	25		
Vinyl Acetate	0.192	0.010	mg/Kg wet	0.200		95.9	70-130	6.29	25	V-16	
Vinyl Chloride	0.0178	0.010	mg/Kg wet	0.0200		89.2	40-130	2.50	25		†
m+p Xylene	0.0416	0.0040	mg/Kg wet	0.0400		104	70-130	4.82	25		
o-Xylene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130	5.56	25		
Surrogate: 1,2-Dichloroethane-d4	*0.0531*		mg/Kg wet	0.0500		106	70-130				
Surrogate: Toluene-d8	*0.0508*		mg/Kg wet	0.0500		102	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0504*		mg/Kg wet	0.0500		101	70-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Volatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077041 - SW-846 5035										
Blank (B077041-BLK1)				Prepared & Analyzed: 07/18/13						
Hexane	0.015		mg/Kg wet							J
Tentatively Identified Compounds	0.0		mg/Kg wet							
No TICs Found	0.0		mg/Kg wet							
Batch B077058 - SW-846 5035										
Blank (B077058-BLK1)				Prepared: 07/18/13 Analyzed: 07/19/13						
Hexane	0.0085		mg/Kg wet							J
Tentatively Identified Compounds	0.0		mg/Kg wet							
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077054 - SW-846 3546										
Blank (B077054-BLK1)				Prepared: 07/19/13 Analyzed: 07/20/13						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							V-05
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Benzoic Acid	ND	1.0	mg/Kg wet							L-04, V-05
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							V-05
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.34	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-20
Di-n-octylphthalate	ND	0.67	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							L-04, V-05
Hexachloroethane	ND	0.34	mg/Kg wet							V-05
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
1-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							V-05
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B077054 - SW-846 3546												
Blank (B077054-BLK1)				Prepared: 07/19/13 Analyzed: 07/20/13								
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet								V-05	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*4.72*		mg/Kg wet	6.67		70.8		30-130				
Surrogate: Phenol-d6	*4.83*		mg/Kg wet	6.67		72.4		30-130				
Surrogate: Nitrobenzene-d5	*2.51*		mg/Kg wet	3.33		75.4		30-130				
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.06*		mg/Kg wet	6.67		90.8		30-130				
Surrogate: p-Terphenyl-d14	*3.42*		mg/Kg wet	3.33		103		30-130				
LCS (B077054-BS1)				Prepared: 07/19/13 Analyzed: 07/20/13								
Acenaphthene	1.28	0.17	mg/Kg wet	1.67		76.5		40-140		30		
Acenaphthylene	1.28	0.17	mg/Kg wet	1.67		76.6		40-140		30		
Anthracene	1.38	0.17	mg/Kg wet	1.67		82.7		40-140		30		
Benzo(a)anthracene	1.38	0.17	mg/Kg wet	1.67		82.7		40-140		30		
Benzo(a)pyrene	1.33	0.17	mg/Kg wet	1.67		79.8		40-140		30		
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.1		40-140		30	V-05	
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.6		40-140		30		
Benzo(k)fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.2		40-140		30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	
Bis(2-chloroethoxy)methane	1.31	0.34	mg/Kg wet	1.67		78.8		40-140		30		
Bis(2-chloroethyl)ether	1.16	0.34	mg/Kg wet	1.67		69.4		40-140		30		
Bis(2-chloroisopropyl)ether	0.992	0.34	mg/Kg wet	1.67		59.5		40-140		30	V-05	
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.67		73.4		40-140		30		
4-Bromophenylphenylether	1.43	0.34	mg/Kg wet	1.67		85.8		40-140		30		
Butylbenzylphthalate	1.40	0.34	mg/Kg wet	1.67		84.0		40-140		30		
4-Chloroaniline	0.895	0.66	mg/Kg wet	1.67		53.7		10-140		30		†
4-Chloro-3-methylphenol	1.25	0.66	mg/Kg wet	1.67		74.8		30-130		30		
2-Chloronaphthalene	1.11	0.34	mg/Kg wet	1.67		66.9		40-140		30		
2-Chlorophenol	1.09	0.34	mg/Kg wet	1.67		65.6		30-130		30		
4-Chlorophenylphenylether	1.21	0.34	mg/Kg wet	1.67		72.4		40-140		30		
Chrysene	1.42	0.17	mg/Kg wet	1.67		85.2		40-140		30		
Dibenz(a,h)anthracene	1.40	0.17	mg/Kg wet	1.67		84.2		40-140		30		
Dibenzofuran	1.22	0.34	mg/Kg wet	1.67		73.3		40-140		30		
Di-n-butylphthalate	1.41	0.34	mg/Kg wet	1.67		84.6		40-140		30		
1,2-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.7		40-140		30		
1,3-Dichlorobenzene	0.987	0.34	mg/Kg wet	1.67		59.2		40-140		30		
1,4-Dichlorobenzene	0.982	0.34	mg/Kg wet	1.67		58.9		40-140		30		
3,3-Dichlorobenzidine	1.18	0.17	mg/Kg wet	1.67		70.6		20-140		50		†
2,4-Dichlorophenol	1.30	0.34	mg/Kg wet	1.67		77.9		30-130		30		
Diethylphthalate	1.31	0.34	mg/Kg wet	1.67		78.8		40-140		30		
2,4-Dimethylphenol	1.30	0.34	mg/Kg wet	1.67		77.9		30-130		30		
Dimethylphthalate	1.34	0.34	mg/Kg wet	1.67		80.2		40-140		30		
4,6-Dinitro-2-methylphenol	1.40	0.34	mg/Kg wet	1.67		83.7		30-130		30		
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		64.0		30-130		30	V-06	
Di-n-octylphthalate	1.13	0.67	mg/Kg wet	1.67		67.7		40-140		30		
1,2-Diphenylhydrazine (as Azobenzene)	1.40	0.34	mg/Kg wet	1.67		83.8		40-140		30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B077054 - SW-846 3546												
LCS (B077054-BS1)				Prepared: 07/19/13 Analyzed: 07/20/13								
Fluoranthene	1.55	0.17	mg/Kg wet	1.67		92.8		40-140		30		
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.8		40-140		30		
Hexachlorobenzene	1.48	0.34	mg/Kg wet	1.67		88.5		40-140		30		
Hexachlorobutadiene	1.15	0.34	mg/Kg wet	1.67		68.9		40-140		30		
Hexachlorocyclopentadiene	0.573	0.34	mg/Kg wet	1.67		**34.4**	*	40-140		30	L-04, V-05	
Hexachloroethane	0.980	0.34	mg/Kg wet	1.67		58.8		40-140		30	V-05	
Indeno(1,2,3-cd)pyrene	1.37	0.17	mg/Kg wet	1.67		82.2		40-140		30		
Isophorone	1.23	0.34	mg/Kg wet	1.67		74.0		40-140		30		
1-Methylnaphthalene	1.15	0.17	mg/Kg wet	1.67		69.1		40-140		30		
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.0		40-140		30		
2-Methylphenol	1.09	0.34	mg/Kg wet	1.67		65.4		30-130		30		
3/4-Methylphenol	1.03	0.34	mg/Kg wet	1.67		61.6		30-130		30	V-05	
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.4		40-140		30		
Nitrobenzene	1.13	0.34	mg/Kg wet	1.67		67.8		40-140		30		
2-Nitrophenol	1.35	0.34	mg/Kg wet	1.67		80.8		30-130		30		
4-Nitrophenol	1.05	0.66	mg/Kg wet	1.67		62.9		30-130		50	V-05	
N-Nitrosodiphenylamine	1.66	0.34	mg/Kg wet	1.67		99.6		40-140		30		
N-Nitrosodi-n-propylamine	0.941	0.34	mg/Kg wet	1.67		56.5		40-140		30	V-05	
Pentachlorophenol	1.05	0.34	mg/Kg wet	1.67		63.0		30-130		30		
Phenanthrene	1.40	0.17	mg/Kg wet	1.67		83.8		40-140		30		
Phenol	0.968	0.34	mg/Kg wet	1.67		58.1		30-130		30		
Pyrene	1.40	0.17	mg/Kg wet	1.67		84.2		40-140		30		
1,2,4-Trichlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.7		40-140		30		
2,4,6-Trichlorophenol	1.28	0.34	mg/Kg wet	1.67		76.6		30-130		30		
Surrogate: 2-Fluorophenol	*4.29*		mg/Kg wet	6.67		64.3		30-130				
Surrogate: Phenol-d6	*4.09*		mg/Kg wet	6.67		61.3		30-130				
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.67*		mg/Kg wet	6.67		100		30-130				
Surrogate: p-Terphenyl-d14	*2.99*		mg/Kg wet	3.33		89.8		30-130				
LCS Dup (B077054-BSD1)				Prepared: 07/19/13 Analyzed: 07/20/13								
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.6		40-140	13.9	30		
Acenaphthylene	1.12	0.17	mg/Kg wet	1.67		67.2		40-140	13.2	30		
Anthracene	1.25	0.17	mg/Kg wet	1.67		75.1		40-140	9.68	30		
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.9		40-140	7.29	30		
Benzo(a)pyrene	1.23	0.17	mg/Kg wet	1.67		73.9		40-140	7.65	30		
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8		40-140	12.8	30	V-05	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		67.3		40-140	15.6	30		
Benzo(k)fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.6		40-140	0.866	30		
Benzoic Acid	ND	1.0	mg/Kg wet	1.67			*	30-130		50	L-04, V-05	‡
Bis(2-chloroethoxy)methane	1.13	0.34	mg/Kg wet	1.67		67.7		40-140	15.0	30		
Bis(2-chloroethyl)ether	0.949	0.34	mg/Kg wet	1.67		56.9		40-140	19.8	30		
Bis(2-chloroisopropyl)ether	0.808	0.34	mg/Kg wet	1.67		48.5		40-140	20.5	30	V-05	
Bis(2-Ethylhexyl)phthalate	1.12	0.34	mg/Kg wet	1.67		67.3		40-140	8.78	30		
4-Bromophenylphenylether	1.31	0.34	mg/Kg wet	1.67		78.8		40-140	8.50	30		
Butylbenzylphthalate	1.29	0.34	mg/Kg wet	1.67		77.3		40-140	8.21	30		
4-Chloroaniline	0.813	0.66	mg/Kg wet	1.67		48.8		10-140	9.60	30		†
4-Chloro-3-methylphenol	1.11	0.66	mg/Kg wet	1.67		66.8		30-130	11.2	30		
2-Chloronaphthalene	0.987	0.34	mg/Kg wet	1.67		59.2		40-140	12.2	30		
2-Chlorophenol	0.899	0.34	mg/Kg wet	1.67		53.9		30-130	19.5	30		
4-Chlorophenylphenylether	1.07	0.34	mg/Kg wet	1.67		64.1		40-140	12.2	30		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B077054 - SW-846 3546												
LCS Dup (B077054-BSD1)				Prepared: 07/19/13 Analyzed: 07/20/13								
Chrysene	1.28	0.17	mg/Kg wet	1.67		76.9		40-140	10.2	30		
Dibenz(a,h)anthracene	1.23	0.17	mg/Kg wet	1.67		73.8		40-140	13.1	30		
Dibenzofuran	1.08	0.34	mg/Kg wet	1.67		64.8		40-140	12.2	30		
Di-n-butylphthalate	1.29	0.34	mg/Kg wet	1.67		77.6		40-140	8.66	30		
1,2-Dichlorobenzene	0.809	0.34	mg/Kg wet	1.67		48.5		40-140	22.2	30		
1,3-Dichlorobenzene	0.773	0.34	mg/Kg wet	1.67		46.4		40-140	24.4	30		
1,4-Dichlorobenzene	0.783	0.34	mg/Kg wet	1.67		47.0		40-140	22.5	30		
3,3-Dichlorobenzidine	1.10	0.17	mg/Kg wet	1.67		66.1		20-140	6.61	50		† ‡
2,4-Dichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.6		30-130	12.7	30		
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		71.0		40-140	10.4	30		
2,4-Dimethylphenol	1.15	0.34	mg/Kg wet	1.67		68.8		30-130	12.4	30		
Dimethylphthalate	1.20	0.34	mg/Kg wet	1.67		72.1		40-140	10.6	30		
4,6-Dinitro-2-methylphenol	1.35	0.34	mg/Kg wet	1.67		80.8		30-130	3.55	30		
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		63.9		30-130	0.156	30	V-06	
Di-n-octylphthalate	1.04	0.67	mg/Kg wet	1.67		62.2		40-140	8.59	30		
1,2-Diphenylhydrazine (as Azobenzene)	1.29	0.34	mg/Kg wet	1.67		77.6		40-140	7.73	30		
Fluoranthene	1.40	0.17	mg/Kg wet	1.67		84.2		40-140	9.74	30		
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.5		40-140	11.0	30		
Hexachlorobenzene	1.32	0.34	mg/Kg wet	1.67		79.4		40-140	10.9	30		
Hexachlorobutadiene	0.942	0.34	mg/Kg wet	1.67		56.5		40-140	19.8	30		
Hexachlorocyclopentadiene	0.459	0.34	mg/Kg wet	1.67		**27.5**	*	40-140	22.2	30	L-04, V-05	
Hexachloroethane	0.776	0.34	mg/Kg wet	1.67		46.5		40-140	23.3	30	V-05	
Indeno(1,2,3-cd)pyrene	1.17	0.17	mg/Kg wet	1.67		70.4		40-140	15.4	30		
Isophorone	1.06	0.34	mg/Kg wet	1.67		63.8		40-140	14.8	30		
1-Methylnaphthalene	1.00	0.17	mg/Kg wet	1.67		60.0		40-140	14.0	30		
2-Methylnaphthalene	0.928	0.17	mg/Kg wet	1.67		55.7		40-140	15.4	30		
2-Methylphenol	0.929	0.34	mg/Kg wet	1.67		55.7		30-130	16.0	30		
3/4-Methylphenol	0.864	0.34	mg/Kg wet	1.67		51.8		30-130	17.2	30	V-05	
Naphthalene	0.953	0.17	mg/Kg wet	1.67		57.2		40-140	17.8	30		
Nitrobenzene	0.945	0.34	mg/Kg wet	1.67		56.7		40-140	17.8	30		
2-Nitrophenol	1.12	0.34	mg/Kg wet	1.67		67.3		30-130	18.2	30		
4-Nitrophenol	0.713	0.66	mg/Kg wet	1.67		42.8		30-130	38.1	50	V-05	‡
N-Nitrosodiphenylamine	1.51	0.34	mg/Kg wet	1.67		90.8		40-140	9.16	30		
N-Nitrosodi-n-propylamine	0.794	0.34	mg/Kg wet	1.67		47.6		40-140	17.0	30	V-05	
Pentachlorophenol	0.965	0.34	mg/Kg wet	1.67		57.9		30-130	8.34	30		
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		77.0		40-140	8.36	30		
Phenol	0.815	0.34	mg/Kg wet	1.67		48.9		30-130	17.2	30		
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.4		40-140	7.16	30		
1,2,4-Trichlorobenzene	0.984	0.34	mg/Kg wet	1.67		59.0		40-140	19.4	30		
2,4,6-Trichlorophenol	1.14	0.34	mg/Kg wet	1.67		68.4		30-130	11.3	30		
Surrogate: 2-Fluorophenol	*3.60*		mg/Kg wet	6.67		54.1		30-130				
Surrogate: Phenol-d6	*3.54*		mg/Kg wet	6.67		53.0		30-130				
Surrogate: Nitrobenzene-d5	*1.94*		mg/Kg wet	3.33		58.2		30-130				
Surrogate: 2-Fluorobiphenyl	*2.07*		mg/Kg wet	3.33		62.1		30-130				
Surrogate: 2,4,6-Tribromophenol	*6.12*		mg/Kg wet	6.67		91.7		30-130				
Surrogate: p-Terphenyl-d14	*2.89*		mg/Kg wet	3.33		86.7		30-130				

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077054 - SW-846 3546										
Blank (B077054-BLK1)				Prepared: 07/19/13 Analyzed: 07/20/13						
Tentatively Identified Compounds	0.0		mg/Kg wet							
No TICs Found	0.0		mg/Kg wet							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077333 - SW-846 3546										
Blank (B077333-BLK1)				Prepared & Analyzed: 07/24/13						
C9-C18 Aliphatics	ND	10	mg/Kg wet							
C19-C36 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C11-C22 Aromatics	ND	10	mg/Kg wet							
C11-C22 Aromatics	ND	10	mg/Kg wet							
Acenaphthene	ND	0.10	mg/Kg wet							
Acenaphthylene	ND	0.10	mg/Kg wet							
Anthracene	ND	0.10	mg/Kg wet							
Benzo(a)anthracene	ND	0.10	mg/Kg wet							
Benzo(a)pyrene	ND	0.10	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.10	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.10	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.10	mg/Kg wet							
Chrysene	ND	0.10	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.10	mg/Kg wet							
Fluoranthene	ND	0.10	mg/Kg wet							
Fluorene	ND	0.10	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.10	mg/Kg wet							
2-Methylnaphthalene	ND	0.10	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
Phenanthrene	ND	0.10	mg/Kg wet							
Pyrene	ND	0.10	mg/Kg wet							
Surrogate: Chlorooctadecane (COD)	*3.68*		mg/Kg wet	4.99		73.8	40-140			
Surrogate: o-Terphenyl (OTP)	*3.91*		mg/Kg wet	5.00		78.1	40-140			
Surrogate: 2-Bromonaphthalene	*3.89*		mg/Kg wet	5.00		77.7	40-140			
Surrogate: 2-Fluorobiphenyl	*4.46*		mg/Kg wet	5.00		89.2	40-140			
LCS (B077333-BS1)				Prepared: 07/24/13 Analyzed: 07/25/13						
Acenaphthene	3.34	0.10	mg/Kg wet	5.00		66.7	40-140			
Acenaphthylene	3.05	0.10	mg/Kg wet	5.00		60.9	40-140			
Anthracene	3.65	0.10	mg/Kg wet	5.00		73.0	40-140			
Benzo(a)anthracene	3.74	0.10	mg/Kg wet	5.00		74.7	40-140			
Benzo(a)pyrene	3.59	0.10	mg/Kg wet	5.00		71.8	40-140			
Benzo(b)fluoranthene	3.68	0.10	mg/Kg wet	5.00		73.6	40-140			
Benzo(g,h,i)perylene	3.74	0.10	mg/Kg wet	5.00		74.9	40-140			
Benzo(k)fluoranthene	3.71	0.10	mg/Kg wet	5.00		74.3	40-140			
Chrysene	3.57	0.10	mg/Kg wet	5.00		71.4	40-140			
Dibenz(a,h)anthracene	3.85	0.10	mg/Kg wet	5.00		77.0	40-140			
Fluoranthene	3.67	0.10	mg/Kg wet	5.00		73.4	40-140			
Fluorene	3.34	0.10	mg/Kg wet	5.00		66.8	40-140			
Indeno(1,2,3-cd)pyrene	3.83	0.10	mg/Kg wet	5.00		76.7	40-140			
2-Methylnaphthalene	2.92	0.10	mg/Kg wet	5.00		58.5	40-140			
Naphthalene	2.59	0.10	mg/Kg wet	5.00		51.8	40-140			
Phenanthrene	3.58	0.10	mg/Kg wet	5.00		71.6	40-140			
Pyrene	3.59	0.10	mg/Kg wet	5.00		71.8	40-140			
n-Decane	2.15	0.10	mg/Kg wet	5.00		43.1	40-140			
n-Docosane	3.56	0.10	mg/Kg wet	5.00		71.2	40-140			
n-Dodecane	2.67	0.10	mg/Kg wet	5.00		53.5	40-140			
n-Eicosane	3.62	0.10	mg/Kg wet	5.00		72.4	40-140			
n-Hexacosane	3.52	0.10	mg/Kg wet	5.00		70.4	40-140			
n-Hexadecane	3.51	0.10	mg/Kg wet	5.00		70.3	40-140			
n-Hexatriacontane	4.39	0.10	mg/Kg wet	5.00		87.7	40-140			
n-Nonadecane	3.63	0.10	mg/Kg wet	5.00		72.6	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077333 - SW-846 3546										
LCS (B077333-BS1)				Prepared: 07/24/13 Analyzed: 07/25/13						
n-Nonane	1.60	0.10	mg/Kg wet	5.00		32.1	30-140			
n-Octacosane	3.42	0.10	mg/Kg wet	5.00		68.4	40-140			
n-Octadecane	3.65	0.10	mg/Kg wet	5.00		73.0	40-140			
n-Tetracosane	3.58	0.10	mg/Kg wet	5.00		71.6	40-140			
n-Tetradecane	3.13	0.10	mg/Kg wet	5.00		62.6	40-140			
n-Triacontane	3.50	0.10	mg/Kg wet	5.00		70.0	40-140			
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.33*		mg/Kg wet	4.99		66.7	40-140			
Surrogate: o-Terphenyl (OTP)	*3.43*		mg/Kg wet	5.00		68.6	40-140			
Surrogate: 2-Bromonaphthalene	*3.24*		mg/Kg wet	5.00		64.8	40-140			
Surrogate: 2-Fluorobiphenyl	*3.58*		mg/Kg wet	5.00		71.6	40-140			
LCS Dup (B077333-BSD1)				Prepared: 07/24/13 Analyzed: 07/25/13						
Acenaphthene	3.71	0.10	mg/Kg wet	5.00		74.3	40-140	10.7	25	
Acenaphthylene	3.43	0.10	mg/Kg wet	5.00		68.6	40-140	11.9	25	
Anthracene	4.03	0.10	mg/Kg wet	5.00		80.6	40-140	9.78	25	
Benzo(a)anthracene	4.09	0.10	mg/Kg wet	5.00		81.7	40-140	8.99	25	
Benzo(a)pyrene	3.92	0.10	mg/Kg wet	5.00		78.4	40-140	8.77	25	
Benzo(b)fluoranthene	4.01	0.10	mg/Kg wet	5.00		80.3	40-140	8.69	25	
Benzo(g,h,i)perylene	4.12	0.10	mg/Kg wet	5.00		82.3	40-140	9.47	25	
Benzo(k)fluoranthene	4.06	0.10	mg/Kg wet	5.00		81.2	40-140	8.94	25	
Chrysene	3.91	0.10	mg/Kg wet	5.00		78.3	40-140	9.23	25	
Dibenz(a,h)anthracene	4.21	0.10	mg/Kg wet	5.00		84.2	40-140	9.02	25	
Fluoranthene	4.02	0.10	mg/Kg wet	5.00		80.4	40-140	9.03	25	
Fluorene	3.74	0.10	mg/Kg wet	5.00		74.8	40-140	11.4	25	
Indeno(1,2,3-cd)pyrene	4.18	0.10	mg/Kg wet	5.00		83.6	40-140	8.73	25	
2-Methylnaphthalene	3.29	0.10	mg/Kg wet	5.00		65.9	40-140	12.0	25	
Naphthalene	2.92	0.10	mg/Kg wet	5.00		58.3	40-140	11.9	25	
Phenanthrene	3.96	0.10	mg/Kg wet	5.00		79.3	40-140	10.2	25	
Pyrene	3.93	0.10	mg/Kg wet	5.00		78.5	40-140	8.98	25	
n-Decane	2.50	0.10	mg/Kg wet	5.00		50.0	40-140	15.0	25	
n-Docosane	3.98	0.10	mg/Kg wet	5.00		79.6	40-140	11.1	25	
n-Dodecane	3.07	0.10	mg/Kg wet	5.00		61.4	40-140	13.8	25	
n-Eicosane	4.03	0.10	mg/Kg wet	5.00		80.7	40-140	10.8	25	
n-Hexacosane	3.98	0.10	mg/Kg wet	5.00		79.5	40-140	12.2	25	
n-Hexadecane	3.97	0.10	mg/Kg wet	5.00		79.4	40-140	12.2	25	
n-Hexatriacontane	4.82	0.10	mg/Kg wet	5.00		96.4	40-140	9.44	25	
n-Nonadecane	4.05	0.10	mg/Kg wet	5.00		81.0	40-140	10.9	25	
n-Nonane	1.90	0.10	mg/Kg wet	5.00		38.1	30-140	17.1	25	
n-Octacosane	3.85	0.10	mg/Kg wet	5.00		77.0	40-140	11.9	25	
n-Octadecane	4.09	0.10	mg/Kg wet	5.00		81.7	40-140	11.2	25	
n-Tetracosane	4.06	0.10	mg/Kg wet	5.00		81.3	40-140	12.7	25	
n-Tetradecane	3.56	0.10	mg/Kg wet	5.00		71.2	40-140	12.9	25	
n-Triacontane	3.90	0.10	mg/Kg wet	5.00		78.0	40-140	10.8	25	
Naphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	0.10	mg/Kg wet	5.00			0-5			
Surrogate: Chlorooctadecane (COD)	*3.60*		mg/Kg wet	4.99		72.2	40-140			
Surrogate: o-Terphenyl (OTP)	*3.67*		mg/Kg wet	5.00		73.3	40-140			
Surrogate: 2-Bromonaphthalene	*3.40*		mg/Kg wet	5.00		68.1	40-140			
Surrogate: 2-Fluorobiphenyl	*3.75*		mg/Kg wet	5.00		75.0	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077333 - SW-846 3546										
Matrix Spike (B077333-MS1)		**Source: 13G0486-04**		Prepared: 07/24/13 Analyzed: 07/25/13						
C9-C18 Aliphatics	31.8	12	mg/Kg dry	35.0	5.79	74.4	40-140			
C19-C36 Aliphatics	44.6	12	mg/Kg dry	46.7	3.79	87.5	40-140			
Unadjusted C11-C22 Aromatics	89.0	12	mg/Kg dry	99.2	5.63	84.0	40-140			
Acenaphthene	4.75	0.12	mg/Kg dry	5.83	0.00	81.4	40-140			
Acenaphthylene	4.39	0.12	mg/Kg dry	5.83	0.00	75.2	40-140			
Anthracene	4.94	0.12	mg/Kg dry	5.83	0.00	84.7	40-140			
Benzo(a)anthracene	4.99	0.12	mg/Kg dry	5.83	0.00	85.6	40-140			
Benzo(a)pyrene	4.79	0.12	mg/Kg dry	5.83	0.00	82.0	40-140			
Benzo(b)fluoranthene	4.93	0.12	mg/Kg dry	5.83	0.00	84.5	40-140			
Benzo(g,h,i)perylene	5.09	0.12	mg/Kg dry	5.83	0.00	87.2	40-140			
Benzo(k)fluoranthene	4.94	0.12	mg/Kg dry	5.83	0.00	84.6	40-140			
Chrysene	4.74	0.12	mg/Kg dry	5.83	0.00	81.3	40-140			
Dibenz(a,h)anthracene	5.12	0.12	mg/Kg dry	5.83	0.00	87.8	40-140			
Fluoranthene	4.94	0.12	mg/Kg dry	5.83	0.00	84.6	40-140			
Fluorene	4.68	0.12	mg/Kg dry	5.83	0.00	80.1	40-140			
Indeno(1,2,3-cd)pyrene	5.14	0.12	mg/Kg dry	5.83	0.00	88.1	40-140			
2-Methylnaphthalene	4.37	0.12	mg/Kg dry	5.83	0.00	75.0	40-140			
Naphthalene	4.08	0.12	mg/Kg dry	5.83	0.00	69.9	40-140			
Phenanthrene	4.88	0.12	mg/Kg dry	5.83	0.00	83.6	40-140			
Pyrene	4.82	0.12	mg/Kg dry	5.83	0.00	82.7	40-140			
n-Nonane	2.88	0.12	mg/Kg dry	5.83	0.00	49.3	30-140			
Surrogate: Chlorooctadecane (COD)	*4.40*		mg/Kg dry	5.82		75.6	40-140			
Surrogate: o-Terphenyl (OTP)	*4.41*		mg/Kg dry	5.83		75.5	40-140			
Surrogate: 2-Bromonaphthalene	*4.72*		mg/Kg dry	5.83		80.8	40-140			
Surrogate: 2-Fluorobiphenyl	*5.45*		mg/Kg dry	5.83		93.5	40-140			
Matrix Spike Dup (B077333-MSD1)		**Source: 13G0486-04**		Prepared: 07/24/13 Analyzed: 07/25/13						
C9-C18 Aliphatics	30.6	12	mg/Kg dry	35.0	5.79	70.9	40-140	3.89	50	
C19-C36 Aliphatics	43.8	12	mg/Kg dry	46.7	3.79	85.7	40-140	1.85	50	
Unadjusted C11-C22 Aromatics	101	12	mg/Kg dry	99.2	5.63	96.1	40-140	12.6	50	
Acenaphthene	5.32	0.12	mg/Kg dry	5.83	0.00	91.1	40-140	11.3	50	
Acenaphthylene	4.96	0.12	mg/Kg dry	5.83	0.00	84.9	40-140	12.2	50	
Anthracene	5.66	0.12	mg/Kg dry	5.83	0.00	97.0	40-140	13.6	50	
Benzo(a)anthracene	5.78	0.12	mg/Kg dry	5.83	0.00	99.1	40-140	14.6	50	
Benzo(a)pyrene	5.57	0.12	mg/Kg dry	5.83	0.00	95.4	40-140	15.1	50	
Benzo(b)fluoranthene	5.73	0.12	mg/Kg dry	5.83	0.00	98.3	40-140	15.0	50	
Benzo(g,h,i)perylene	5.92	0.12	mg/Kg dry	5.83	0.00	102	40-140	15.2	50	
Benzo(k)fluoranthene	5.73	0.12	mg/Kg dry	5.83	0.00	98.2	40-140	14.8	50	
Chrysene	5.49	0.12	mg/Kg dry	5.83	0.00	94.0	40-140	14.5	50	
Dibenz(a,h)anthracene	5.95	0.12	mg/Kg dry	5.83	0.00	102	40-140	14.9	50	
Fluoranthene	5.67	0.12	mg/Kg dry	5.83	0.00	97.2	40-140	13.8	50	
Fluorene	5.27	0.12	mg/Kg dry	5.83	0.00	90.3	40-140	11.9	50	
Indeno(1,2,3-cd)pyrene	5.98	0.12	mg/Kg dry	5.83	0.00	102	40-140	15.1	50	
2-Methylnaphthalene	4.93	0.12	mg/Kg dry	5.83	0.00	84.5	40-140	12.0	50	
Naphthalene	4.53	0.12	mg/Kg dry	5.83	0.00	77.7	40-140	10.5	50	
Phenanthrene	5.56	0.12	mg/Kg dry	5.83	0.00	95.3	40-140	13.0	50	
Pyrene	5.56	0.12	mg/Kg dry	5.83	0.00	95.2	40-140	14.1	50	
n-Nonane	2.69	0.12	mg/Kg dry	5.83	0.00	46.2	30-140	6.59	50	
Surrogate: Chlorooctadecane (COD)	*4.46*		mg/Kg dry	5.82		76.5	40-140			
Surrogate: o-Terphenyl (OTP)	*5.08*		mg/Kg dry	5.83		87.0	40-140			
Surrogate: 2-Bromonaphthalene	*4.85*		mg/Kg dry	5.83		83.1	40-140			
Surrogate: 2-Fluorobiphenyl	*5.57*		mg/Kg dry	5.83		95.5	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076746 - MA VPH										
Blank (B076746-BLK1)				Prepared & Analyzed: 07/15/13						
Unadjusted C5-C8 Aliphatics	ND	10	mg/Kg wet							
C5-C8 Aliphatics	ND	10	mg/Kg wet							
Unadjusted C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C12 Aliphatics	ND	10	mg/Kg wet							
C9-C10 Aromatics	ND	10	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Naphthalene	ND	0.25	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 2,5-Dibromotoluene (FID)	*2.98*		mg/Kg wet	3.33		89.4	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.85*		mg/Kg wet	3.33		85.5	70-130			
LCS (B076746-BS1)				Prepared & Analyzed: 07/15/13						
Benzene	4.67	0.050	mg/Kg wet	5.00		93.5	70-130			
Butylcyclohexane	3.96	0.050	mg/Kg wet	5.00		79.3	70-130			
Decane	4.24	0.050	mg/Kg wet	5.00		84.7	70-130			
Ethylbenzene	5.06	0.050	mg/Kg wet	5.00		101	70-130			
Methyl tert-Butyl Ether (MTBE)	4.92	0.050	mg/Kg wet	5.00		98.4	70-130			
2-Methylpentane	3.81	0.050	mg/Kg wet	5.00		76.3	70-130			
Naphthalene	5.36	0.25	mg/Kg wet	5.00		107	70-130			
Nonane	3.69	0.050	mg/Kg wet	5.00		73.8	30-130			
Pentane	3.65	0.050	mg/Kg wet	5.00		73.0	70-130			
Toluene	4.90	0.050	mg/Kg wet	5.00		98.0	70-130			
1,2,4-Trimethylbenzene	4.80	0.050	mg/Kg wet	5.00		96.1	70-130			
2,2,4-Trimethylpentane	3.85	0.050	mg/Kg wet	5.00		76.9	70-130			
m+p Xylene	10.3	0.10	mg/Kg wet	10.0		103	70-130			
o-Xylene	5.06	0.050	mg/Kg wet	5.00		101	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*3.06*		mg/Kg wet	3.33		91.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*2.91*		mg/Kg wet	3.33		87.2	70-130			
LCS Dup (B076746-BSD1)				Prepared & Analyzed: 07/15/13						
Benzene	4.59	0.050	mg/Kg wet	5.00		91.8	70-130	1.75	25	
Butylcyclohexane	4.05	0.050	mg/Kg wet	5.00		81.0	70-130	2.13	25	
Decane	4.43	0.050	mg/Kg wet	5.00		88.7	70-130	4.57	25	
Ethylbenzene	4.98	0.050	mg/Kg wet	5.00		99.5	70-130	1.71	25	
Methyl tert-Butyl Ether (MTBE)	4.90	0.050	mg/Kg wet	5.00		98.1	70-130	0.279	25	
2-Methylpentane	3.68	0.050	mg/Kg wet	5.00		73.6	70-130	3.59	25	
Naphthalene	5.58	0.25	mg/Kg wet	5.00		112	70-130	3.96	25	
Nonane	3.96	0.050	mg/Kg wet	5.00		79.3	30-130	7.19	25	
Pentane	3.53	0.050	mg/Kg wet	5.00		70.6	70-130	3.26	25	
Toluene	4.83	0.050	mg/Kg wet	5.00		96.5	70-130	1.54	25	
1,2,4-Trimethylbenzene	4.73	0.050	mg/Kg wet	5.00		94.5	70-130	1.60	25	
2,2,4-Trimethylpentane	3.80	0.050	mg/Kg wet	5.00		75.9	70-130	1.28	25	
m+p Xylene	10.1	0.10	mg/Kg wet	10.0		101	70-130	1.54	25	
o-Xylene	5.00	0.050	mg/Kg wet	5.00		100	70-130	1.20	25	
Surrogate: 2,5-Dibromotoluene (FID)	*3.27*		mg/Kg wet	3.33		98.2	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*3.16*		mg/Kg wet	3.33		94.9	70-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076775 - % Solids										
Duplicate (B076775-DUP1)		**Source: 13G0486-01**		Prepared: 07/15/13 Analyzed: 07/16/13						
% Solids	88.1		% Wt		88.7			0.679	20	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

SCS	Scott C. Sadowski
RH	Robert H. Witherell
OJS	Olga J. Szymura
MFF	Mark F. Flahive
LAW	Lisa A. Worthington
LBD	Lauren B. Damboragian
EW	Edwin William
EEH	Eric E. Hess
CMR	Catherine M. Rouleau
CMF	Chris M. Foley
CEC	Christian E. Collins

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Soil	
C9-C18 Aliphatics	CT,NC,WA,ME,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,ME,NH-P
Acenaphthene	CT,NC,WA,ME,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,ME,NH-P
Anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,ME,NH-P
Chrysene	CT,NC,WA,ME,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,ME,NH-P
Fluoranthene	CT,NC,WA,ME,ME,NH-P
Fluorene	CT,NC,WA,ME,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME,ME
Naphthalene	CT,NC,WA,ME,ME,NH-P
Phenanthrene	CT,NC,WA,ME,ME,NH-P
Pyrene	CT,NC,WA,ME,ME,NH-P
MADEP-VPH-04-1.1 in Soil	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 8260B in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
tert-Butyl Alcohol (TBA)	NC
n-Butylbenzene	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromoethane (EDB)	NC
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diisopropyl Ether (DIPE)	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NH,NY,NC
Methyl tert-Butyl Ether (MTBE)	NY,NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NH,NY,NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260B in Soil	
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Acetate	NH,NY,NC
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Benzoic Acid	NY,NH,ME,NC,VA
Bis(2-chloroethoxy)methane	CT,NY,NH,ME,NC,VA
Bis(2-chloroethyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-chloroisopropyl)ether	CT,NY,NH,ME,NC,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NH,ME,NC,VA
4-Bromophenylphenylether	CT,NY,NH,ME,NC,VA
Butylbenzylphthalate	CT,NY,NH,ME,NC,VA
4-Chloroaniline	CT,NY,NH,ME,NC,VA
4-Chloro-3-methylphenol	CT,NY,NH,ME,NC,VA
2-Chloronaphthalene	CT,NY,NH,NC,VA
2-Chlorophenol	CT,NY,NH,ME,NC,VA
4-Chlorophenylphenylether	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH,ME,NC,VA
Di-n-butylphthalate	CT,NY,NH,ME,NC,VA
1,2-Dichlorobenzene	NY,NH,ME,NC,VA
1,3-Dichlorobenzene	NY,NH,ME,NC,VA
1,4-Dichlorobenzene	NY,NH,ME,NC,VA
3,3-Dichlorobenzidine	CT,NY,NH,ME,NC,VA
2,4-Dichlorophenol	CT,NY,NH,ME,NC,VA
Diethylphthalate	CT,NY,NH,ME,NC,VA
2,4-Dimethylphenol	CT,NY,NH,ME,NC,VA
Dimethylphthalate	CT,NY,NH,ME,NC,VA
4,6-Dinitro-2-methylphenol	CT,NY,NH,ME,NC,VA
2,4-Dinitrophenol	CT,NY,NH,ME,NC,VA
Di-n-octylphthalate	CT,NY,NH,ME,NC,VA
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH,ME,NC,VA
Hexachlorobenzene	CT,NY,NH,ME,NC,VA
Hexachlorobutadiene	CT,NY,NH,ME,NC,VA
Hexachlorocyclopentadiene	CT,NY,NH,ME,NC,VA
Hexachloroethane	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
Isophorone	CT,NY,NH,ME,NC,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH,ME,NC,VA
3/4-Methylphenol	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Nitrobenzene	CT,NY,NH,ME,NC,VA
2-Nitrophenol	CT,NY,NH,ME,NC,VA
4-Nitrophenol	CT,NY,NH,ME,NC,VA
N-Nitrosodiphenylamine	CT,NY,NH,ME,NC,VA
N-Nitrosodi-n-propylamine	CT,NY,NH,ME,NC,VA
Pentachlorophenol	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
1,2,4-Trichlorobenzene	CT,NY,NH,ME,NC,VA
2,4,6-Trichlorophenol	CT,NY,NH,ME,NC,VA
2-Fluorophenol	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0486

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip: Martha Meyers-Lee
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Glue ASTs
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	Preservation MeOH	Preservation HNO3	Preservation H2SO4	Preservation None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)					Comments
	~~Trip Blank~~ BC	-	-	Lab	S	3	2	1				x								
01	NVM UST-1	7/11/13	1330	BC	S	6	2	1			2	x	x	x	x					
02	NVM UST-2		1340		S	6	2	1			2	x	x	x	x					
03	NVM UST-3		1350		S	6	2	1			2	x	x	x	x					
04	NVM-UST-4		1400		S	0	2	1			2	x	x	x	x					
05	NVM UST-5		1410		S	0	2	1			2	x	x	x	x					
					S	0														
					S	0														
					S	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
Brandy Cooper	7/11/13 - 1830	1 Fed-X 8025403972	2		2
3	7/12/13 0953	3 3.0°	4		4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applicable ☐	On Ice: ☐

07-12-13 14:30 IN

FedEx

801398534225

Ship (P/U) date :
Thur 7/11/2013 5:17 pm
CHICAGO, IL US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Fri 7/12/2013 9:53 am
MA US

3 Piece shipment

Let us tell you when your shipment arrives. Sign up for delivery notifications

Travel History

Date/Time	Activity	Location
- 7/12/2013 - Friday		
9:53 am	Delivered	MA
8:03 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:02 am	At local FedEx facility	WINDSOR LOCKS, CT
6:09 am	At destination sort facility	EAST GRANBY, CT
4:30 am	Departed FedEx location	INDIANAPOLIS, IN
12:44 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 7/11/2013 - Thursday		
7:08 pm	Left FedEx origin facility	DECATUR, IL
5:17 pm	Picked up	DECATUR, IL

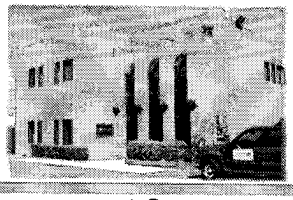
Local Scan Time

Shipment Facts

Tracking number	801398534225	**Service**	FedEx Priority Overnight
Master tracking number	801398534225	**Dimensions**	19x10x14 in.
Delivered To	Shipping/Receiving	**Total pieces**	3
Total shipment weight	70 lbs / 31.8 kgs	**Shipper reference**	1672 003 70
Packaging	Your Packaging	**Special handling section**	Deliver Weekday, Additional Handling Surcharge

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS **RECEIVED BY:** PB **DATE:** 7.12.13

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No **No CoC Included**
2) **Does the chain agree with the samples?** ~~Yes~~ (No)
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? ~~Yes~~ No N/A

Temperature °C by Temp blank 3 Temperature °C by Temp gun _____

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** Yes (No)
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** Login

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	5
500 mL Amber		4 oz amber/clear jar	5
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	~~23~~ 26	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: ~~8~~ Received Trip blank

40 mL vials: # HCl _____ # Methanol ~~11~~ 12

Bisulfate _____ # DI Water ~~12~~ 14

Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-12-13 14:3[illegible]

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 2, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC Naphtha, Varsol, Methanol USTs
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0493

Enclosed are results of analyses for samples received by the laboratory on July 12, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/2/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0493

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC Naphtha, Varsol, Methanol USTs

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
MW-5	13G0493-01	Ground Water		EPA 602	
				EPA 625	
				MADEP-EPH-04-1.1	
				MADEP-VPH-04-1.1	
				SW-846 6010C	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08/02/2013: Reporting ranges for Laboratory Control Samples is not part of the EPH/VPH methods. By reporting ranges and not individual components the validity of the method is compromised. We are unable to provide results for the VPH aliphatic ranges due to differences with how the calculations are peformed between the two different detectors for the components used for analysis. At the request of URS, we are able to provide the calculated results for the other ranges in the case narrative only.

EPH	B076776-BS1	B076776-BSD1
C9-C18	100%	95.0%
C19-C36	116%	107%
C11-C22	124%	124%

VPH	B076725-BS1	B076725-BSD1
C9-C10	101%	100%

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

EPA 625

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

13G0493-01[MW-5], B076711-BLK1, B076711-BS1, B076711-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine, Hexachlorocyclopentadiene

13G0493-01[MW-5]

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzo(g,h,i)perylene, Di-n-octylphthalate, Hexachlorocyclopentadiene, Pyrene

B076711-BLK1, B076711-BS1, B076711-BSD1, 13G0493-01[MW-5]

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

B076711-BLK1, B076711-BS1, B076711-BSD1

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

4-Nitrophenol, Benzoic Acid

13G0493-01[MW-5], B076711-BLK1

SW-846 6010C

Qualifications:

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Lead

13G0493-01[MW-5], B076804-BLK1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

MADEP-EPH-04-1.1

SPE cartridge contamination with non-petroleum compounds, if present, is verified by GC/MS in each method blank per extraction batch and excluded from C11-C22 aromatic range fraction in all samples in the batch. No significant modifications were made to the method.

MADEP-VPH-04-1.1

No significant modifications were made to the method. All VPH samples were received preserved properly at pH <2 in the proper containers as specified on the chain-of-custody form unless specified in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met | Sample Description: | Work Order: 13G0493

Date Received: 7/12/2013

Field Sample #: MW-5 | Sampled: 7/11/2013 17:00

Sample ID: 13G0493-01

Sample Matrix: Ground Water

Volatile Organic Compounds by GC

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Benzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/18/13 17:50	EEH
Chlorobenzene	0.91	1.0	0.080	µg/L	1	J	EPA 602	7/18/13	7/18/13 17:50	EEH
1,2-Dichlorobenzene	ND	1.0	0.070	µg/L	1		EPA 602	7/18/13	7/18/13 17:50	EEH
1,3-Dichlorobenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/18/13 17:50	EEH
1,4-Dichlorobenzene	ND	1.0	0.040	µg/L	1		EPA 602	7/18/13	7/18/13 17:50	EEH
Ethylbenzene	ND	1.0	0.060	µg/L	1		EPA 602	7/18/13	7/18/13 17:50	EEH
Toluene	ND	1.0	0.27	µg/L	1		EPA 602	7/18/13	7/18/13 17:50	EEH
m+p Xylene	ND	2.0	0.19	µg/L	1		EPA 602	7/18/13	7/18/13 17:50	EEH
o-Xylene	ND	1.0	0.080	µg/L	1		EPA 602	7/18/13	7/18/13 17:50	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
1-Chloro-3-fluorobenzene	97.9	63.6-127		7/18/13 17:50

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0493

Date Received: 7/12/2013

Field Sample #: MW-5 Sampled: 7/11/2013 17:00

Sample ID: 13G0493-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Acenaphthylene	ND	5.0	3.4	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Anthracene	ND	5.0	2.7	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Benzo(a)anthracene	ND	5.0	2.5	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Benzo(a)pyrene	ND	5.0	2.2	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Benzo(b)fluoranthene	ND	5.0	2.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Benzo(g,h,i)perylene	ND	5.0	3.5	µg/L	1	V-05	EPA 625	7/13/13	7/21/13 19:12	CMR
Benzo(k)fluoranthene	ND	5.0	3.0	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
4-Bromophenylphenylether	ND	10	3.3	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Butylbenzylphthalate	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
4-Chloro-3-methylphenol	ND	10	7.1	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Benzoic Acid	ND	10	2.9	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Bis(2-chloroethoxy)methane	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Bis(2-chloroethyl)ether	ND	10	5.7	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Bis(2-chloroisopropyl)ether	ND	10	7.3	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
2-Chloronaphthalene	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
2-Chlorophenol	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
4-Chlorophenylphenylether	ND	10	4.5	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Chrysene	ND	5.0	2.7	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
4-Chloroaniline	ND	10	3.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Dibenz(a,h)anthracene	ND	5.0	4.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Di-n-butylphthalate	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
1,3-Dichlorobenzene	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
1,4-Dichlorobenzene	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
1,2-Dichlorobenzene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
3,3-Dichlorobenzidine	ND	10	3.7	µg/L	1	V-04	EPA 625	7/13/13	7/21/13 19:12	CMR
2,4-Dichlorophenol	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Dibenzofuran	ND	5.0	3.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Diethylphthalate	ND	10	5.4	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
2,4-Dimethylphenol	ND	10	5.0	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Dimethylphthalate	ND	10	3.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
4,6-Dinitro-2-methylphenol	ND	10	7.4	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
2,4-Dinitrophenol	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Di-n-octylphthalate	ND	10	4.3	µg/L	1	V-05	EPA 625	7/13/13	7/21/13 19:12	CMR
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Bis(2-Ethylhexyl)phthalate	ND	10	4.3	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Fluoranthene	ND	5.0	4.4	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Fluorene	ND	5.0	4.3	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Hexachlorobenzene	ND	10	3.9	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Hexachlorobutadiene	ND	10	3.3	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Hexachlorocyclopentadiene	ND	10	5.6	µg/L	1	L-04, V-04	EPA 625	7/13/13	7/21/13 19:12	CMR
Hexachloroethane	ND	10	4.2	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Indeno(1,2,3-cd)pyrene	ND	5.0	4.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Isophorone	ND	10	4.4	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met | Sample Description: | Work Order: 13G0493

Date Received: 7/12/2013

Field Sample #: MW-5 | Sampled: 7/11/2013 17:00

Sample ID: 13G0493-01

Sample Matrix: Ground Water

Semivolatile Organic Compounds by - GC/MS

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	5.0	3.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Nitrobenzene	ND	10	4.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
2-Nitrophenol	ND	10	3.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
4-Nitrophenol	ND	10	4.3	µg/L	1	V-20	EPA 625	7/13/13	7/21/13 19:12	CMR
N-Nitrosodiphenylamine	ND	10	4.0	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
N-Nitrosodi-n-propylamine	ND	10	5.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
1-Methylnaphthalene	ND	5.0	4.4	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Pentachlorophenol	ND	10	3.4	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
2-Methylnaphthalene	ND	5.0	4.1	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Phenanthrene	ND	5.0	2.9	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
2-Methylphenol	ND	10	5.6	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Phenol	ND	10	2.9	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
3/4-Methylphenol	ND	10	4.8	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
Pyrene	ND	5.0	3.9	µg/L	1	V-05	EPA 625	7/13/13	7/21/13 19:12	CMR
1,2,4-Trichlorobenzene	ND	5.0	3.1	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR
2,4,6-Trichlorophenol	ND	10	4.4	µg/L	1		EPA 625	7/13/13	7/21/13 19:12	CMR

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	43.3	15-110		7/21/13 19:12
Phenol-d6	31.8	15-110		7/21/13 19:12
Nitrobenzene-d5	59.4	30-130		7/21/13 19:12
2-Fluorobiphenyl	65.8	30-130		7/21/13 19:12
2,4,6-Tribromophenol	72.3	15-110		7/21/13 19:12
p-Terphenyl-d14	59.8	30-130		7/21/13 19:12

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met
Sample Description:
Work Order: 13G0493

Date Received: 7/12/2013

Field Sample #: MW-5
Sampled: 7/11/2013 17:00

Sample ID: 13G0493-01

Sample Matrix: Ground Water

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED)

Analyte	Results	Units	Response	RT	DF	CAS #	Method	Date Prepared	Date/Time Analyzed	Analyst
No TICs Found	0.0	µg/L			1		EPA 625	7/13/13	7/21/13 19:12	CMR

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met Sample Description: Work Order: 13G0493

Date Received: 7/12/2013

Field Sample #: MW-5 Sampled: 7/11/2013 17:00

Sample ID: 13G0493-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - EPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
C9-C18 Aliphatics	120	100	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
C19-C36 Aliphatics	290	100	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
C11-C22 Aromatics	ND	100	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Acenaphthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Acenaphthylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Benzo(a)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Benzo(a)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Benzo(b)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Benzo(g,h,i)perylene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Benzo(k)fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Chrysene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Dibenz(a,h)anthracene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Fluoranthene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Fluorene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
2-Methylnaphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Naphthalene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Phenanthrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS
Pyrene	ND	2.0	µg/L	1		MADEP-EPH-04-1.1	7/15/13	7/16/13 16:22	SCS

Surrogates	% Recovery	Recovery Limits	Flag	
Chlorooctadecane (COD)	76.3	40-140		7/16/13 16:22
o-Terphenyl (OTP)	81.3	40-140		7/16/13 16:22
2-Bromonaphthalene	86.4	40-140		7/16/13 16:22
2-Fluorobiphenyl	93.8	40-140		7/16/13 16:22

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met
Sample Description:
Work Order: 13G0493

Date Received: 7/12/2013

Field Sample #: MW-5
Sampled: 7/11/2013 17:00

Sample ID: 13G0493-01

Sample Matrix: Ground Water

Petroleum Hydrocarbons Analyses - VPH

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Unadjusted C5-C8 Aliphatics	220	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
C5-C8 Aliphatics	220	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
Unadjusted C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
C9-C12 Aliphatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
C9-C10 Aromatics	ND	100	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
Benzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
Ethylbenzene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
Naphthalene	ND	5.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
Toluene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
m+p Xylene	ND	2.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH
o-Xylene	ND	1.0	µg/L	1		MADEP-VPH-04-1.1	7/15/13	7/15/13 22:59	EEH

Surrogates	% Recovery	Recovery Limits	Flag	
2,5-Dibromotoluene (FID)	102	70-130		7/15/13 22:59
2,5-Dibromotoluene (PID)	117	70-130		7/15/13 22:59

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Naphtha, Varsol, Met
Sample Description:
Work Order: 13G0493

Date Received: 7/12/2013

Field Sample #: MW-5
Sampled: 7/11/2013 17:00

Sample ID: 13G0493-01

Sample Matrix: Ground Water

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	4.9	10	3.4	µg/L	1	J	SW-846 6010C	7/16/13	7/17/13 13:24	KSH
Lead	8.3	10	2.7	µg/L	1	J, B	SW-846 6010C	7/16/13	7/17/13 13:24	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: EPA 602-EPA 602

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0493-01 [MW-5]	B076885	5	5.00	07/18/13

Prep Method: SW-846 3510C-EPA 625

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0493-01 [MW-5]	B076711	1000	1.00	07/13/13

Prep Method: SW-846 3510C-MADEP-EPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0493-01 [MW-5]	B076776	1000	2.00	07/15/13

Prep Method: MA VPH-MADEP-VPH-04-1.1

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0493-01 [MW-5]	B076725	5	5.00	07/15/13

Prep Method: SW-846 3005A-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
13G0493-01 [MW-5]	B076804	50.0	50.0	07/16/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Volatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076885 - EPA 602										
Blank (B076885-BLK1)				Prepared & Analyzed: 07/18/13						
Benzene	ND	1.0	µg/L							
Chlorobenzene	ND	1.0	µg/L							
1,2-Dichlorobenzene	ND	1.0	µg/L							
1,3-Dichlorobenzene	ND	1.0	µg/L							
1,4-Dichlorobenzene	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Toluene	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 1-Chloro-3-fluorobenzene	*16.1*		µg/L	15.0		107	63.6-127			
LCS (B076885-BS1)				Prepared & Analyzed: 07/18/13						
Benzene	19.3	1.0	µg/L	20.0		96.3	73.2-120		9.13	
Chlorobenzene	19.1	1.0	µg/L	20.0		95.4	81.1-111		7.06	
1,2-Dichlorobenzene	18.2	1.0	µg/L	20.0		91.0	83.5-109		11.7	
1,3-Dichlorobenzene	19.7	1.0	µg/L	20.0		98.3	84.5-112		8.08	
1,4-Dichlorobenzene	20.3	1.0	µg/L	20.0		101	83.3-115		8.28	
Ethylbenzene	19.9	1.0	µg/L	20.0		99.3	76.7-116		7.69	
Toluene	19.7	1.0	µg/L	20.0		98.4	75.2-121		8.07	
m+p Xylene	41.0	2.0	µg/L	40.0		103	76.7-117		8.38	
o-Xylene	18.8	1.0	µg/L	20.0		94.0	70.6-113		18	
Surrogate: 1-Chloro-3-fluorobenzene	*15.0*		µg/L	15.0		100	63.6-127			
LCS Dup (B076885-BSD1)				Prepared & Analyzed: 07/18/13						
Benzene	18.9	1.0	µg/L	20.0		94.7	73.2-120	1.67	9.13	
Chlorobenzene	18.9	1.0	µg/L	20.0		94.3	81.1-111	1.18	7.06	
1,2-Dichlorobenzene	18.8	1.0	µg/L	20.0		93.9	83.5-109	3.14	11.7	
1,3-Dichlorobenzene	19.4	1.0	µg/L	20.0		96.9	84.5-112	1.42	8.08	
1,4-Dichlorobenzene	20.4	1.0	µg/L	20.0		102	83.3-115	0.756	8.28	
Ethylbenzene	19.6	1.0	µg/L	20.0		98.0	76.7-116	1.36	7.69	
Toluene	19.2	1.0	µg/L	20.0		96.0	75.2-121	2.54	8.07	
m+p Xylene	39.9	2.0	µg/L	40.0		99.9	76.7-117	2.72	8.38	
o-Xylene	19.0	1.0	µg/L	20.0		94.8	70.6-113	0.816	18	
Surrogate: 1-Chloro-3-fluorobenzene	*15.3*		µg/L	15.0		102	63.6-127			
Matrix Spike (B076885-MS1)	**Source: 13G0493-01**			Prepared: 07/18/13 Analyzed: 07/19/13						
Benzene	20.1	1.0	µg/L	20.0	ND	101	75.7-114		25	
Chlorobenzene	17.6	1.0	µg/L	20.0	0.906	83.3	70-130		25	
1,2-Dichlorobenzene	16.2	1.0	µg/L	20.0	ND	81.2	70-130		25	
1,3-Dichlorobenzene	17.0	1.0	µg/L	20.0	ND	84.9	70-130		25	
1,4-Dichlorobenzene	17.3	1.0	µg/L	20.0	ND	86.7	70-130		25	
Ethylbenzene	17.4	1.0	µg/L	20.0	ND	86.8	77.6-114		25	
Toluene	17.8	1.0	µg/L	20.0	ND	88.8	76.7-115		25	
m+p Xylene	34.2	2.0	µg/L	40.0	ND	85.4	78.6-116		25	
o-Xylene	18.3	1.0	µg/L	20.0	ND	91.6	77.5-115		25	
Surrogate: 1-Chloro-3-fluorobenzene	*14.5*		µg/L	15.0		96.6	63.6-127			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
Acenaphthene	ND	5.0	µg/L							
Acenaphthylene	ND	5.0	µg/L							
Anthracene	ND	5.0	µg/L							
Benzo(a)anthracene	ND	5.0	µg/L							
Benzo(a)pyrene	ND	5.0	µg/L							
Benzo(b)fluoranthene	ND	5.0	µg/L							
Benzo(g,h,i)perylene	ND	5.0	µg/L							V-05
Benzo(k)fluoranthene	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
Benzoic Acid	ND	10	µg/L							V-20
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Chrysene	ND	5.0	µg/L							
4-Chloroaniline	ND	10	µg/L							
Dibenz(a,h)anthracene	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
1,3-Dichlorobenzene	ND	5.0	µg/L							
1,4-Dichlorobenzene	ND	5.0	µg/L							
1,2-Dichlorobenzene	ND	5.0	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							V-19
Di-n-octylphthalate	ND	10	µg/L							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	10	µg/L							
Fluoranthene	ND	5.0	µg/L							
Fluorene	ND	5.0	µg/L							
Hexachlorobenzene	ND	10	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							L-04, V-05
Hexachloroethane	ND	10	µg/L							
Indeno(1,2,3-cd)pyrene	ND	5.0	µg/L							
Isophorone	ND	10	µg/L							
Naphthalene	ND	5.0	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							V-05
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							
1-Methylnaphthalene	ND	5.0	µg/L							
Pentachlorophenol	ND	10	µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
2-Methylnaphthalene	ND	5.0	µg/L							
Phenanthrene	ND	5.0	µg/L							
2-Methylphenol	ND	10	µg/L							
Phenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
Pyrene	ND	5.0	µg/L							
1,2,4-Trichlorobenzene	ND	5.0	µg/L							
2,4,6-Trichlorophenol	ND	10	µg/L							
Surrogate: 2-Fluorophenol	*101*		µg/L	200		50.4	15-110			
Surrogate: Phenol-d6	*73.7*		µg/L	200		36.8	15-110			
Surrogate: Nitrobenzene-d5	*69.9*		µg/L	100		69.9	30-130			
Surrogate: 2-Fluorobiphenyl	*73.1*		µg/L	100		73.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*180*		µg/L	200		90.2	15-110			
Surrogate: p-Terphenyl-d14	*87.2*		µg/L	100		87.2	30-130			
LCS (B076711-BS1)				Prepared: 07/13/13 Analyzed: 07/16/13						
Acenaphthene	39.8	5.0	µg/L	50.0		79.7	47-145			
Acenaphthylene	40.6	5.0	µg/L	50.0		81.1	33-145			
Anthracene	42.7	5.0	µg/L	50.0		85.5	27-133			
Benzo(a)anthracene	44.2	5.0	µg/L	50.0		88.4	33-143			
Benzo(a)pyrene	45.8	5.0	µg/L	50.0		91.5	17-163			
Benzo(b)fluoranthene	46.3	5.0	µg/L	50.0		92.5	24-159			
Benzo(g,h,i)perylene	38.5	5.0	µg/L	50.0		76.9	1-219			V-05
Benzo(k)fluoranthene	45.9	5.0	µg/L	50.0		91.7	11-162			
4-Bromophenylphenylether	41.4	10	µg/L	50.0		82.9	53-127			
Butylbenzylphthalate	38.9	10	µg/L	50.0		77.8	1-152			
4-Chloro-3-methylphenol	43.2	10	µg/L	50.0		86.4	22-147			
Bis(2-chloroethoxy)methane	39.5	10	µg/L	50.0		79.0	33-184			
Bis(2-chloroethyl)ether	39.0	10	µg/L	50.0		78.0	12-158			
Bis(2-chloroisopropyl)ether	32.5	10	µg/L	50.0		65.0	36-166			
2-Chloronaphthalene	34.3	10	µg/L	50.0		68.6	60-118			
2-Chlorophenol	36.9	10	µg/L	50.0		73.8	23-134			
4-Chlorophenylphenylether	41.8	10	µg/L	50.0		83.6	25-158			
Chrysene	40.8	5.0	µg/L	50.0		81.6	17-168			
Dibenz(a,h)anthracene	42.0	5.0	µg/L	50.0		83.9	1-227			
Di-n-butylphthalate	43.9	10	µg/L	50.0		87.7	1-118			
1,3-Dichlorobenzene	26.5	5.0	µg/L	50.0		52.9	1-172			
1,4-Dichlorobenzene	27.0	5.0	µg/L	50.0		53.9	20-124			
1,2-Dichlorobenzene	28.8	5.0	µg/L	50.0		57.6	32-129			
3,3-Dichlorobenzidine	48.9	10	µg/L	50.0		97.9	1-262			
2,4-Dichlorophenol	42.3	10	µg/L	50.0		84.6	39-135			
Diethylphthalate	43.1	10	µg/L	50.0		86.2	1-114			
2,4-Dimethylphenol	43.3	10	µg/L	50.0		86.6	32-119			
Dimethylphthalate	43.6	10	µg/L	50.0		87.1	1-112			
4,6-Dinitro-2-methylphenol	42.5	10	µg/L	50.0		85.0	1-181			
2,4-Dinitrophenol	43.5	10	µg/L	50.0		87.0	1-191			V-19
Di-n-octylphthalate	55.5	10	µg/L	50.0		111	4-146			
1,2-Diphenylhydrazine (as Azobenzene)	35.9	10	µg/L	50.0		71.9	40-140			
Bis(2-Ethylhexyl)phthalate	45.6	10	µg/L	50.0		91.3	8-158			
Fluoranthene	45.7	5.0	µg/L	50.0		91.3	26-137			
Fluorene	42.4	5.0	µg/L	50.0		84.8	59-121			
Hexachlorobenzene	41.9	10	µg/L	50.0		83.7	1-152			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C											
LCS (B076711-BS1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Hexachlorobutadiene	24.3	10	µg/L	50.0		48.7		24-116			
Hexachlorocyclopentadiene	18.9	10	µg/L	50.0		**37.9**	*	40-140			L-04, V-05
Hexachloroethane	22.4	10	µg/L	50.0		44.9		40-113			
Indeno(1,2,3-cd)pyrene	44.0	5.0	µg/L	50.0		88.1		1-171			
Isophorone	38.7	10	µg/L	50.0		77.3		21-196			
Naphthalene	34.1	5.0	µg/L	50.0		68.2		21-133			
Nitrobenzene	32.6	10	µg/L	50.0		65.3		35-180			
2-Nitrophenol	40.4	10	µg/L	50.0		80.8		29-182			
4-Nitrophenol	21.9	10	µg/L	50.0		43.8		1-132			V-05
N-Nitrosodiphenylamine	50.9	10	µg/L	50.0		102		40-140			
N-Nitrosodi-n-propylamine	39.2	10	µg/L	50.0		78.4		1-230			
Pentachlorophenol	42.7	10	µg/L	50.0		85.4		14-176			
Phenanthrene	42.4	5.0	µg/L	50.0		84.9		54-120			
Phenol	20.9	10	µg/L	50.0		41.8		5-112			
Pyrene	33.4	5.0	µg/L	50.0		66.8		52-115			
1,2,4-Trichlorobenzene	30.0	5.0	µg/L	50.0		60.1		44-142			
2,4,6-Trichlorophenol	41.7	10	µg/L	50.0		83.4		37-144			
Surrogate: 2-Fluorophenol	*107*		µg/L	200		53.4		15-110			
Surrogate: Phenol-d6	*82.4*		µg/L	200		41.2		15-110			
Surrogate: Nitrobenzene-d5	*70.4*		µg/L	100		70.4		30-130			
Surrogate: 2-Fluorobiphenyl	*81.0*		µg/L	100		81.0		30-130			
Surrogate: 2,4,6-Tribromophenol	*192*		µg/L	200		96.0		15-110			
Surrogate: p-Terphenyl-d14	*73.2*		µg/L	100		73.2		30-130			
LCS Dup (B076711-BSD1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Acenaphthene	42.5	5.0	µg/L	50.0		85.0		47-145	6.41		
Acenaphthylene	43.6	5.0	µg/L	50.0		87.2		33-145	7.20		
Anthracene	45.2	5.0	µg/L	50.0		90.3		27-133	5.51		
Benzo(a)anthracene	46.9	5.0	µg/L	50.0		93.7		33-143	5.86		
Benzo(a)pyrene	48.2	5.0	µg/L	50.0		96.5		17-163	5.32		
Benzo(b)fluoranthene	51.1	5.0	µg/L	50.0		102		24-159	9.86		
Benzo(g,h,i)perylene	40.2	5.0	µg/L	50.0		80.4		1-219	4.35		V-05
Benzo(k)fluoranthene	49.8	5.0	µg/L	50.0		99.6		11-162	8.20		
4-Bromophenylphenylether	44.0	10	µg/L	50.0		88.0		53-127	5.99		
Butylbenzylphthalate	40.9	10	µg/L	50.0		81.8		1-152	4.91		
4-Chloro-3-methylphenol	46.6	10	µg/L	50.0		93.2		22-147	7.59		
Bis(2-chloroethoxy)methane	43.5	10	µg/L	50.0		87.1		33-184	9.76		
Bis(2-chloroethyl)ether	42.9	10	µg/L	50.0		85.7		12-158	9.38		
Bis(2-chloroisopropyl)ether	35.3	10	µg/L	50.0		70.7		36-166	8.31		
2-Chloronaphthalene	33.5	10	µg/L	50.0		67.0		60-118	2.36		
2-Chlorophenol	41.3	10	µg/L	50.0		82.7		23-134	11.4		
4-Chlorophenylphenylether	45.7	10	µg/L	50.0		91.4		25-158	8.92		
Chrysene	42.3	5.0	µg/L	50.0		84.6		17-168	3.58		
Dibenz(a,h)anthracene	43.2	5.0	µg/L	50.0		86.5		1-227	2.96		
Di-n-butylphthalate	45.2	10	µg/L	50.0		90.4		1-118	2.96		
1,3-Dichlorobenzene	28.2	5.0	µg/L	50.0		56.4		1-172	6.44		
1,4-Dichlorobenzene	28.8	5.0	µg/L	50.0		57.6		20-124	6.57		
1,2-Dichlorobenzene	31.0	5.0	µg/L	50.0		62.1		32-129	7.55		
3,3-Dichlorobenzidine	49.3	10	µg/L	50.0		98.5		1-262	0.652		
2,4-Dichlorophenol	44.5	10	µg/L	50.0		89.0		39-135	5.07		
Diethylphthalate	45.2	10	µg/L	50.0		90.3		1-114	4.64		
2,4-Dimethylphenol	46.7	10	µg/L	50.0		93.3		32-119	7.49		

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by - GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C											
LCS Dup (B076711-BSD1)				Prepared: 07/13/13 Analyzed: 07/16/13							
Dimethylphthalate	45.5	10	µg/L	50.0		91.1		1-112	4.42		
4,6-Dinitro-2-methylphenol	44.1	10	µg/L	50.0		88.2		1-181	3.70		
2,4-Dinitrophenol	43.9	10	µg/L	50.0		87.8		1-191	0.824		V-19
Di-n-octylphthalate	62.9	10	µg/L	50.0		126		4-146	12.4		
1,2-Diphenylhydrazine (as Azobenzene)	38.1	10	µg/L	50.0		76.2		40-140	5.81		
Bis(2-Ethylhexyl)phthalate	47.7	10	µg/L	50.0		95.4		8-158	4.41		
Fluoranthene	49.4	5.0	µg/L	50.0		98.7		26-137	7.75		
Fluorene	44.7	5.0	µg/L	50.0		89.5		59-121	5.35		
Hexachlorobenzene	43.8	10	µg/L	50.0		87.6		1-152	4.48		
Hexachlorobutadiene	27.0	10	µg/L	50.0		54.1		24-116	10.5		
Hexachlorocyclopentadiene	19.9	10	µg/L	50.0		**39.8**	*	40-140	4.99		L-04, V-05
Hexachloroethane	24.2	10	µg/L	50.0		48.5		40-113	7.80		
Indeno(1,2,3-cd)pyrene	44.3	5.0	µg/L	50.0		88.6		1-171	0.589		
Isophorone	41.6	10	µg/L	50.0		83.2		21-196	7.28		
Naphthalene	36.4	5.0	µg/L	50.0		72.8		21-133	6.55		
Nitrobenzene	35.1	10	µg/L	50.0		70.3		35-180	7.35		
2-Nitrophenol	42.7	10	µg/L	50.0		85.4		29-182	5.58		
4-Nitrophenol	22.4	10	µg/L	50.0		44.9		1-132	2.39		V-05
N-Nitrosodiphenylamine	53.5	10	µg/L	50.0		107		40-140	4.92		
N-Nitrosodi-n-propylamine	41.7	10	µg/L	50.0		83.5		1-230	6.28		
Pentachlorophenol	41.3	10	µg/L	50.0		82.6		14-176	3.40		
Phenanthrene	44.9	5.0	µg/L	50.0		89.9		54-120	5.72		
Phenol	22.6	10	µg/L	50.0		45.2		5-112	7.68		
Pyrene	34.5	5.0	µg/L	50.0		69.0		52-115	3.27		
1,2,4-Trichlorobenzene	32.4	5.0	µg/L	50.0		64.8		44-142	7.50		
2,4,6-Trichlorophenol	44.5	10	µg/L	50.0		89.1		37-144	6.56		
Surrogate: 2-Fluorophenol	*111*		µg/L	200		55.6		15-110			
Surrogate: Phenol-d6	*86.0*		µg/L	200		43.0		15-110			
Surrogate: Nitrobenzene-d5	*73.0*		µg/L	100		73.0		30-130			
Surrogate: 2-Fluorobiphenyl	*80.6*		µg/L	100		80.6		30-130			
Surrogate: 2,4,6-Tribromophenol	*194*		µg/L	200		96.9		15-110			
Surrogate: p-Terphenyl-d14	*72.3*		µg/L	100		72.3		30-130			

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Tentatively Identified Compounds - Semivolatile Compounds (ESTIMATED VALUES REPORTED) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076711 - SW-846 3510C										
Blank (B076711-BLK1)				Prepared: 07/13/13 Analyzed: 07/16/13						
No TICs Found	0.0		µg/L							

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076776 - SW-846 3510C										
Blank (B076776-BLK1)				Prepared: 07/15/13 Analyzed: 07/16/13						
C9-C18 Aliphatics	ND	100	µg/L							
C19-C36 Aliphatics	ND	100	µg/L							
Unadjusted C11-C22 Aromatics	ND	100	µg/L							
C11-C22 Aromatics	ND	100	µg/L							
Acenaphthene	ND	2.0	µg/L							
Acenaphthylene	ND	2.0	µg/L							
Anthracene	ND	2.0	µg/L							
Benzo(a)anthracene	ND	2.0	µg/L							
Benzo(a)pyrene	ND	2.0	µg/L							
Benzo(b)fluoranthene	ND	2.0	µg/L							
Benzo(g,h,i)perylene	ND	2.0	µg/L							
Benzo(k)fluoranthene	ND	2.0	µg/L							
Chrysene	ND	2.0	µg/L							
Dibenz(a,h)anthracene	ND	2.0	µg/L							
Fluoranthene	ND	2.0	µg/L							
Fluorene	ND	2.0	µg/L							
Indeno(1,2,3-cd)pyrene	ND	2.0	µg/L							
2-Methylnaphthalene	ND	2.0	µg/L							
Naphthalene	ND	2.0	µg/L							
Phenanthrene	ND	2.0	µg/L							
Pyrene	ND	2.0	µg/L							
n-Decane	ND	2.0	µg/L							
n-Docosane	ND	2.0	µg/L							
n-Dodecane	ND	2.0	µg/L							
n-Eicosane	ND	2.0	µg/L							
n-Hexacosane	ND	2.0	µg/L							
n-Hexadecane	ND	2.0	µg/L							
n-Hexatriacontane	ND	2.0	µg/L							
n-Nonadecane	ND	2.0	µg/L							
n-Nonane	ND	2.0	µg/L							
n-Octacosane	ND	2.0	µg/L							
n-Octadecane	ND	2.0	µg/L							
n-Tetracosane	ND	2.0	µg/L							
n-Tetradecane	ND	2.0	µg/L							
n-Triacontane	ND	2.0	µg/L							
Naphthalene-aliphatic fraction	ND	2.0	µg/L							
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L							
Surrogate: Chlorooctadecane (COD)	*81.0*		µg/L	99.8		81.1	40-140			
Surrogate: o-Terphenyl (OTP)	*79.9*		µg/L	100		79.9	40-140			
Surrogate: 2-Bromonaphthalene	*84.1*		µg/L	100		84.1	40-140			
Surrogate: 2-Fluorobiphenyl	*92.7*		µg/L	100		92.7	40-140			
LCS (B076776-BS1)				Prepared: 07/15/13 Analyzed: 08/01/13						
C9-C18 Aliphatics	ND	100	µg/L	600			0-200			
C19-C36 Aliphatics	ND	100	µg/L	800			0-200			
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1700			0-200			
Acenaphthene	109	2.0	µg/L	100		109	40-140			
Acenaphthylene	104	2.0	µg/L	100		104	40-140			
Anthracene	120	2.0	µg/L	100		120	40-140			
Benzo(a)anthracene	123	2.0	µg/L	100		123	40-140			
Benzo(a)pyrene	117	2.0	µg/L	100		117	40-140			
Benzo(b)fluoranthene	122	2.0	µg/L	100		122	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076776 - SW-846 3510C										
LCS (B076776-BS1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Benzo(g,h,i)perylene	123	2.0	µg/L	100		123	40-140			
Benzo(k)fluoranthene	120	2.0	µg/L	100		120	40-140			
Chrysene	115	2.0	µg/L	100		115	40-140			
Dibenz(a,h)anthracene	123	2.0	µg/L	100		123	40-140			
Fluoranthene	121	2.0	µg/L	100		121	40-140			
Fluorene	113	2.0	µg/L	100		113	40-140			
Indeno(1,2,3-cd)pyrene	126	2.0	µg/L	100		126	40-140			
2-Methylnaphthalene	98.0	2.0	µg/L	100		98.0	40-140			
Naphthalene	85.5	2.0	µg/L	100		85.5	40-140			
Phenanthrene	118	2.0	µg/L	100		118	40-140			
Pyrene	117	2.0	µg/L	100		117	40-140			
n-Decane	57.8	2.0	µg/L	100		57.8	40-140			
n-Docosane	104	2.0	µg/L	100		104	40-140			
n-Dodecane	75.2	2.0	µg/L	100		75.2	40-140			
n-Eicosane	103	2.0	µg/L	100		103	40-140			
n-Hexacosane	99.8	2.0	µg/L	100		99.8	40-140			
n-Hexadecane	100	2.0	µg/L	100		100	40-140			
n-Hexatriacontane	129	2.0	µg/L	100		129	40-140			
n-Nonadecane	103	2.0	µg/L	100		103	40-140			
n-Nonane	44.2	2.0	µg/L	100		44.2	30-140			
n-Octacosane	98.2	2.0	µg/L	100		98.2	40-140			
n-Octadecane	103	2.0	µg/L	100		103	40-140			
n-Tetracosane	101	2.0	µg/L	100		101	40-140			
n-Tetradecane	91.1	2.0	µg/L	100		91.1	40-140			
n-Triacontane	100	2.0	µg/L	100		100	40-140			
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*98.5*		µg/L	99.8		98.7	40-140			
Surrogate: o-Terphenyl (OTP)	*114*		µg/L	100		114	40-140			
Surrogate: 2-Bromonaphthalene	*101*		µg/L	100		101	40-140			
Surrogate: 2-Fluorobiphenyl	*116*		µg/L	100		116	40-140			
LCS Dup (B076776-BSD1)				Prepared: 07/15/13 Analyzed: 08/01/13						
C9-C18 Aliphatics	ND	100	µg/L	600			0-200	NC		
C19-C36 Aliphatics	ND	100	µg/L	800			0-200	NC		
Unadjusted C11-C22 Aromatics	ND	100	µg/L	1700			0-200	NC		
Acenaphthene	110	2.0	µg/L	100		110	40-140	1.58	25	
Acenaphthylene	106	2.0	µg/L	100		106	40-140	1.63	25	
Anthracene	120	2.0	µg/L	100		120	40-140	0.371	25	
Benzo(a)anthracene	121	2.0	µg/L	100		121	40-140	1.30	25	
Benzo(a)pyrene	115	2.0	µg/L	100		115	40-140	1.41	25	
Benzo(b)fluoranthene	120	2.0	µg/L	100		120	40-140	1.17	25	
Benzo(g,h,i)perylene	121	2.0	µg/L	100		121	40-140	1.76	25	
Benzo(k)fluoranthene	118	2.0	µg/L	100		118	40-140	1.44	25	
Chrysene	113	2.0	µg/L	100		113	40-140	1.38	25	
Dibenz(a,h)anthracene	122	2.0	µg/L	100		122	40-140	1.33	25	
Fluoranthene	120	2.0	µg/L	100		120	40-140	0.880	25	
Fluorene	114	2.0	µg/L	100		114	40-140	1.20	25	
Indeno(1,2,3-cd)pyrene	124	2.0	µg/L	100		124	40-140	1.28	25	
2-Methylnaphthalene	101	2.0	µg/L	100		101	40-140	2.59	25	
Naphthalene	88.7	2.0	µg/L	100		88.7	40-140	3.75	25	
Phenanthrene	119	2.0	µg/L	100		119	40-140	0.461	25	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - EPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076776 - SW-846 3510C										
LCS Dup (B076776-BSD1)				Prepared: 07/15/13 Analyzed: 07/16/13						
Pyrene	117	2.0	µg/L	100		117	40-140	0.584	25	
n-Decane	55.5	2.0	µg/L	100		55.5	40-140	4.14	25	
n-Docosane	95.5	2.0	µg/L	100		95.5	40-140	8.02	25	
n-Dodecane	71.5	2.0	µg/L	100		71.5	40-140	5.07	25	
n-Eicosane	95.5	2.0	µg/L	100		95.5	40-140	7.69	25	
n-Hexacosane	92.1	2.0	µg/L	100		92.1	40-140	8.04	25	
n-Hexadecane	94.3	2.0	µg/L	100		94.3	40-140	6.25	25	
n-Hexatriacontane	119	2.0	µg/L	100		119	40-140	7.83	25	
n-Nonadecane	95.8	2.0	µg/L	100		95.8	40-140	7.67	25	
n-Nonane	43.0	2.0	µg/L	100		43.0	30-140	2.57	25	
n-Octacosane	90.4	2.0	µg/L	100		90.4	40-140	8.28	25	
n-Octadecane	95.7	2.0	µg/L	100		95.7	40-140	7.33	25	
n-Tetracosane	93.5	2.0	µg/L	100		93.5	40-140	8.16	25	
n-Tetradecane	86.1	2.0	µg/L	100		86.1	40-140	5.64	25	
n-Triacontane	92.5	2.0	µg/L	100		92.5	40-140	8.13	25	
Naphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
2-Methylnaphthalene-aliphatic fraction	ND	2.0	µg/L	100			0-5			
Surrogate: Chlorooctadecane (COD)	*89.8*		µg/L	99.8		90.0	40-140			
Surrogate: o-Terphenyl (OTP)	*116*		µg/L	100		116	40-140			
Surrogate: 2-Bromonaphthalene	*108*		µg/L	100		108	40-140			
Surrogate: 2-Fluorobiphenyl	*120*		µg/L	100		120	40-140			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - VPH - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076725 - MA VPH										
Blank (B076725-BLK1)				Prepared & Analyzed: 07/15/13						
Unadjusted C5-C8 Aliphatics	ND	100	µg/L							
C5-C8 Aliphatics	ND	100	µg/L							
Unadjusted C9-C12 Aliphatics	ND	100	µg/L							
C9-C12 Aliphatics	ND	100	µg/L							
C9-C10 Aromatics	ND	100	µg/L							
Benzene	ND	1.0	µg/L							
Ethylbenzene	ND	1.0	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	1.0	µg/L							
Naphthalene	ND	5.0	µg/L							
Toluene	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							
o-Xylene	ND	1.0	µg/L							
Surrogate: 2,5-Dibromotoluene (FID)	*35.4*		µg/L	40.0		88.6	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*40.0*		µg/L	40.0		99.9	70-130			
LCS (B076725-BS1)				Prepared & Analyzed: 07/15/13						
Benzene	114	1.0	µg/L	100		114	70-130			
Butylcyclohexane	87.6	1.0	µg/L	100		87.6	70-130			
Decane	95.3	1.0	µg/L	100		95.3	70-130			
Ethylbenzene	118	1.0	µg/L	100		118	70-130			
Methyl tert-Butyl Ether (MTBE)	119	1.0	µg/L	100		119	70-130			
2-Methylpentane	83.9	1.0	µg/L	100		83.9	70-130			
Naphthalene	128	5.0	µg/L	100		128	70-130			
Nonane	92.6	1.0	µg/L	100		92.6	30-130			
Pentane	77.9	1.0	µg/L	100		77.9	70-130			
Toluene	118	1.0	µg/L	100		118	70-130			
1,2,4-Trimethylbenzene	121	1.0	µg/L	100		121	70-130			
2,2,4-Trimethylpentane	88.9	1.0	µg/L	100		88.9	70-130			
m+p Xylene	241	2.0	µg/L	200		120	70-130			
o-Xylene	122	1.0	µg/L	100		122	70-130			
Surrogate: 2,5-Dibromotoluene (FID)	*38.0*		µg/L	40.0		94.9	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*43.0*		µg/L	40.0		108	70-130			
LCS Dup (B076725-BSD1)				Prepared & Analyzed: 07/15/13						
Benzene	115	1.0	µg/L	100		115	70-130	0.489	25	
Butylcyclohexane	90.0	1.0	µg/L	100		90.0	70-130	2.75	25	
Decane	98.8	1.0	µg/L	100		98.8	70-130	3.66	25	
Ethylbenzene	117	1.0	µg/L	100		117	70-130	1.10	25	
Methyl tert-Butyl Ether (MTBE)	120	1.0	µg/L	100		120	70-130	1.09	25	
2-Methylpentane	81.1	1.0	µg/L	100		81.1	70-130	3.41	25	
Naphthalene	127	5.0	µg/L	100		127	70-130	0.404	25	
Nonane	94.5	1.0	µg/L	100		94.5	30-130	2.05	25	
Pentane	75.6	1.0	µg/L	100		75.6	70-130	2.99	25	
Toluene	117	1.0	µg/L	100		117	70-130	0.565	25	
1,2,4-Trimethylbenzene	119	1.0	µg/L	100		119	70-130	1.39	25	
2,2,4-Trimethylpentane	84.8	1.0	µg/L	100		84.8	70-130	4.73	25	
m+p Xylene	238	2.0	µg/L	200		119	70-130	0.896	25	
o-Xylene	121	1.0	µg/L	100		121	70-130	0.874	25	
Surrogate: 2,5-Dibromotoluene (FID)	*35.9*		µg/L	40.0		89.7	70-130			
Surrogate: 2,5-Dibromotoluene (PID)	*42.5*		µg/L	40.0		106	70-130			

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B076804 - SW-846 3005A										
Blank (B076804-BLK1)				Prepared: 07/16/13 Analyzed: 07/17/13						
Chromium	ND	10	µg/L							
Lead	6.4	10	µg/L							J, B
LCS (B076804-BS1)				Prepared: 07/16/13 Analyzed: 07/17/13						
Chromium	501	10	µg/L	500		100	80-120		20	
Lead	512	10	µg/L	500		102	80-120		20	
LCS Dup (B076804-BSD1)				Prepared: 07/16/13 Analyzed: 07/17/13						
Chromium	513	10	µg/L	500		103	80-120	2.35	20	
Lead	514	10	µg/L	500		103	80-120	0.569	20	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
B	Analyte is found in the associated blank as well as in the sample.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
V-04	Initial calibration did not meet method specifications. Compound was calibrated using a response factor where %RSD is outside of method specified criteria.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

ANALYST

SCS	Scott C. Sadowski
SAJ	Shamika A. Johnson
NJV	Nevin J. Vigneault
MJM	Michael J. Mignogna
LAW	Lisa A. Worthington
KSH	Karen S. Hawks
EEH	Eric E. Hess
DJD	Daren J. Damboragian
CMR	Catherine M. Rouleau
CEC	Christian E. Collins
BGL	Brian G. Lagueux

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 602 in Water	
Benzene	CT,MA,NH,NY,RI,NC,ME,VA
Chlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,2-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,3-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
1,4-Dichlorobenzene	CT,MA,NH,NY,RI,NC,ME,VA
Ethylbenzene	CT,MA,NH,NY,RI,NC,ME,VA
Methyl tert-Butyl Ether (MTBE)	NC
Toluene	CT,MA,NH,NY,RI,NC,ME,VA
m+p Xylene	CT,MA,NH,NY,RI,NC,VA
o-Xylene	CT,MA,NH,NY,RI,NC,VA
1-Chloro-3-fluorobenzene	NC
EPA 625 in Water	
Acenaphthene	CT,MA,NH,NY,NC,RI,ME,VA
Acenaphthylene	CT,MA,NH,NY,NC,RI,ME,VA
Anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(a)anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(a)pyrene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(b)fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(g,h,i)perylene	CT,MA,NH,NY,NC,RI,ME,VA
Benzo(k)fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
4-Bromophenylphenylether	CT,MA,NH,NY,NC,RI,ME,VA
Butylbenzylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
4-Chloro-3-methylphenol	CT,MA,NH,NY,NC,RI,VA
Benzoic Acid	NC
Bis(2-chloroethoxy)methane	CT,MA,NH,NY,NC,RI,ME,VA
Bis(2-chloroethyl)ether	CT,MA,NH,NY,NC,RI,ME,VA
Bis(2-chloroisopropyl)ether	CT,MA,NH,NY,NC,RI,ME,VA
2-Chloronaphthalene	CT,MA,NH,NY,NC,RI,ME,VA
2-Chlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
4-Chlorophenylphenylether	CT,MA,NH,NY,NC,RI,ME,VA
Chrysene	CT,MA,NH,NY,NC,RI,ME,VA
4-Chloroaniline	NC
Dibenz(a,h)anthracene	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-butylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
1,3-Dichlorobenzene	MA,NC
1,4-Dichlorobenzene	MA,NC
1,2-Dichlorobenzene	MA,NC
3,3-Dichlorobenzidine	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dichlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
Dibenzofuran	NC
Diethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dimethylphenol	CT,MA,NH,NY,NC,RI,ME,VA
Dimethylphthalate	CT,MA,NH,NY,NC,RI,ME,VA
4,6-Dinitro-2-methylphenol	CT,MA,NH,NY,NC,RI,ME,VA
2,4-Dinitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
Di-n-octylphthalate	CT,MA,NH,NY,NC,RI,ME,VA

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
EPA 625 in Water	
1,2-Diphenylhydrazine (as Azobenzene)	NC
Bis(2-Ethylhexyl)phthalate	CT,MA,NH,NY,NC,RI,ME,VA
Fluoranthene	CT,MA,NH,NY,NC,RI,ME,VA
Fluorene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorobenzene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorobutadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachlorocyclopentadiene	CT,MA,NH,NY,NC,RI,ME,VA
Hexachloroethane	CT,MA,NH,NY,NC,RI,ME,VA
Indeno(1,2,3-cd)pyrene	CT,MA,NH,NY,NC,RI,ME,VA
Isophorone	CT,MA,NH,NY,NC,RI,ME,VA
Naphthalene	CT,MA,NH,NY,NC,RI,ME,VA
Nitrobenzene	CT,MA,NH,NY,NC,RI,ME,VA
2-Nitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
4-Nitrophenol	CT,MA,NH,NY,NC,RI,ME,VA
N-Nitrosodiphenylamine	CT,MA,NH,NY,NC,RI,ME,VA
N-Nitrosodi-n-propylamine	CT,MA,NH,NY,NC,RI,ME,VA
1-Methylnaphthalene	NC
Pentachlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
2-Methylnaphthalene	NC
Phenanthrene	CT,MA,NH,NY,NC,RI,ME,VA
2-Methylphenol	NY,NC
Phenol	CT,MA,NH,NY,NC,RI,ME,VA
3/4-Methylphenol	NY,NC
Pyrene	CT,MA,NH,NY,NC,RI,ME,VA
1,2,4-Trichlorobenzene	CT,MA,NH,NY,NC,RI,ME,VA
2,4,6-Trichlorophenol	CT,MA,NH,NY,NC,RI,ME,VA
2-Fluorophenol	NC
MADEP-EPH-04-1.1 in Water	
C9-C18 Aliphatics	CT,NC,WA,ME,NH-P
C19-C36 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C11-C22 Aromatics	CT,NC,WA,ME,NH-P
C11-C22 Aromatics	CT,NC,WA,ME,NH-P
Acenaphthene	CT,NC,WA,ME,NH-P
Acenaphthylene	CT,NC,WA,ME,NH-P
Anthracene	CT,NC,WA,ME,NH-P
Benzo(a)anthracene	CT,NC,WA,ME,NH-P
Benzo(a)pyrene	CT,NC,WA,ME,NH-P
Benzo(b)fluoranthene	CT,NC,WA,ME,NH-P
Benzo(g,h,i)perylene	CT,NC,WA,ME,NH-P
Benzo(k)fluoranthene	CT,NC,WA,ME,NH-P
Chrysene	CT,NC,WA,ME,NH-P
Dibenz(a,h)anthracene	CT,NC,WA,ME,NH-P
Fluoranthene	CT,NC,WA,ME,NH-P
Fluorene	CT,NC,WA,ME
Indeno(1,2,3-cd)pyrene	CT,NC,WA,ME,NH-P
2-Methylnaphthalene	CT,NC,WA,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
MADEP-EPH-04-1.1 in Water	
Naphthalene	CT,NC,WA,ME,NH-P
Phenanthrene	CT,NC,WA,ME,NH-P
Pyrene	CT,NC,WA,ME,NH-P
MADEP-VPH-04-1.1 in Water	
Unadjusted C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
C5-C8 Aliphatics	CT,NC,WA,ME,NH-P
Unadjusted C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C12 Aliphatics	CT,NC,WA,ME,NH-P
C9-C10 Aromatics	CT,NC,WA,ME,NH-P
Benzene	CT,NC,WA,ME,NH-P
Ethylbenzene	CT,NC,WA,ME,NH-P
Methyl tert-Butyl Ether (MTBE)	CT,NC,WA,ME,NH-P
Naphthalene	CT,NC,WA,ME,NH-P
Toluene	CT,NC,WA,ME,NH-P
m+p Xylene	CT,NC,WA,ME,NH-P
o-Xylene	CT,NC,WA,ME,NH-P
SW-846 6010C in Water	
Chromium	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,NC,ME,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NC,ME,NH,VA
Acenaphthylene	CT,NY,NC,ME,NH,VA
Anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)anthracene	CT,NY,NC,ME,NH,VA
Benzo(a)pyrene	CT,NY,NC,ME,NH,VA
Benzo(b)fluoranthene	CT,NY,NC,ME,NH,VA
Benzo(g,h,i)perylene	CT,NY,NC,ME,NH,VA
Benzo(k)fluoranthene	CT,NY,NC,ME,NH,VA
Benzoic Acid	NY,NC,ME,NH,VA
Bis(2-chloroethoxy)methane	CT,NY,NC,ME,NH,VA
Bis(2-chloroethyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-chloroisopropyl)ether	CT,NY,NC,ME,NH,VA
Bis(2-Ethylhexyl)phthalate	CT,NY,NC,ME,NH,VA
4-Bromophenylphenylether	CT,NY,NC,ME,NH,VA
Butylbenzylphthalate	CT,NY,NC,ME,NH,VA
4-Chloroaniline	CT,NY,NC,ME,NH,VA
4-Chloro-3-methylphenol	CT,NY,NC,ME,NH,VA
2-Chloronaphthalene	CT,NY,NC,ME,NH,VA
2-Chlorophenol	CT,NY,NC,ME,NH,VA
4-Chlorophenylphenylether	CT,NY,NC,ME,NH,VA
Chrysene	CT,NY,NC,ME,NH,VA
Dibenz(a,h)anthracene	CT,NY,NC,ME,NH,VA
Dibenzofuran	CT,NY,NC,ME,NH,VA
Di-n-butylphthalate	CT,NY,NC,ME,NH,VA
1,2-Dichlorobenzene	CT,NY,NC,ME,NH,VA
1,3-Dichlorobenzene	CT,NY,NC,ME,NH,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
1,4-Dichlorobenzene	CT,NY,NC,ME,NH,VA
3,3-Dichlorobenzidine	CT,NY,NC,ME,NH,VA
2,4-Dichlorophenol	CT,NY,NC,ME,NH,VA
Diethylphthalate	CT,NY,NC,ME,NH,VA
2,4-Dimethylphenol	CT,NY,NC,ME,NH,VA
Dimethylphthalate	CT,NY,NC,ME,NH,VA
4,6-Dinitro-2-methylphenol	CT,NY,NC,ME,NH,VA
2,4-Dinitrophenol	CT,NY,NC,ME,NH,VA
Di-n-octylphthalate	CT,NY,NC,ME,NH,VA
1,2-Diphenylhydrazine (as Azobenzene)	NC
Fluoranthene	CT,NY,NC,ME,NH,VA
Fluorene	NY,NC,ME,NH,VA
Hexachlorobenzene	CT,NY,NC,ME,NH,VA
Hexachlorobutadiene	CT,NY,NC,ME,NH,VA
Hexachlorocyclopentadiene	CT,NY,NC,ME,NH,VA
Hexachloroethane	CT,NY,NC,ME,NH,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NC,ME,NH,VA
Isophorone	CT,NY,NC,ME,NH,VA
1-Methylnaphthalene	NC
2-Methylnaphthalene	CT,NY,NC,ME,NH,VA
2-Methylphenol	CT,NY,NC,NH,VA
3/4-Methylphenol	CT,NY,NC,NH,VA
Naphthalene	CT,NY,NC,ME,NH,VA
Nitrobenzene	CT,NY,NC,ME,NH,VA
2-Nitrophenol	CT,NY,NC,ME,NH,VA
4-Nitrophenol	CT,NY,NC,ME,NH,VA
N-Nitrosodiphenylamine	CT,NY,NC,ME,NH,VA
N-Nitrosodi-n-propylamine	CT,NY,NC,ME,NH,VA
Pentachlorophenol	CT,NY,NC,ME,NH,VA
Phenanthrene	CT,NY,NC,ME,NH,VA
Phenol	CT,NY,NC,ME,NH,VA
Pyrene	CT,NY,NC,ME,NH,VA
1,2,4-Trichlorobenzene	CT,NY,NC,ME,NH,VA
2,4,6-Trichlorophenol	CT,NY,NC,ME,NH,VA
2-Fluorophenol	NC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

13G0493

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City / State / Zip
Send Report to: Martha Meyers-Lee
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Naphtha, Varsol, Methanol USTs
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (EPA 602)	UST Section Guidance, Appendix B SVOC & 10 largest non-target peaks (TICs) (EPA	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)	Chromium and Lead (SW-846 6010C)				Comments
-01 Trip Blank	-	-	Lab	W	3	3					x								
-02 MW-5	7/11/13	1700	BC	W	11	6		1		4	x	x	x	x	x				
				W	11	6		1		4	x	x	x	x	x				
				W	0														
				W	0														
				W	0														
				W	0														
				W	0														
				W	0														

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	7/11/13 · 1800	1 Fed-X 8025240399267	2		2
3	7/12/13 0953	3 [signature]	4		4
5		5	Seal #	Preserved where applicable ☐	On Ice: ☐

07-12-13 14:59 IN

FedEx

801398534225

Ship (P/U) date :
Thur 7/11/2013 5:17 pm
CHICAGO, IL US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Fri 7/12/2013 9:53 am
MA US

3 Piece shipment

Let us tell you when your shipment arrives. Sign up for delivery notifications

Travel History

Date/Time	Activity	Location
- 7/12/2013 - Friday		
9:53 am	Delivered	MA
8:03 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
7:02 am	At local FedEx facility	WINDSOR LOCKS, CT
6:09 am	At destination sort facility	EAST GRANBY, CT
4:30 am	Departed FedEx location	INDIANAPOLIS, IN
12:44 am	Arrived at FedEx location	INDIANAPOLIS, IN
- 7/11/2013 - Thursday		
7:08 pm	Left FedEx origin facility	DECATUR, IL
5:17 pm	Picked up	DECATUR, IL

Local Scan Time

Shipment Facts

Tracking number	801398534225	**Service**	FedEx Priority Overnight
Master tracking number	801398534225	**Dimensions**	19x10x14 in.
		Total pieces	3
Delivered To	Shipping/Receiving	**Shipper reference**	1672 003 70
Total shipment weight	70 lbs / 31.8 kgs	**Special handling section**	Deliver Weekday, Additional Handling Surcharge
Packaging	Your Packaging		

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: URS RECEIVED BY: PB DATE: 7-12-13

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included
2) Does the chain agree with the samples? (Yes) No
   If not, explain:
3) Are all the samples in good condition? (Yes) No
   If not, explain:
4) How were the samples received:
   On Ice [X] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [X]
   Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A
   Temperature °C by Temp blank _____ Temperature °C by Temp gun _____
5) Are there Dissolved samples for the lab to filter? Yes (No)
   Who was notified 2 Date _____ Time _____
6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)
   Who was notified _____ Date _____ Time _____
7) Location where samples are stored: Log in

   Permission to subcontract samples? Yes No
   (Walk-in clients only) if not already approved
   Client Signature: _____
8) Do all samples have the proper Acid pH: (Yes) No N/A _____
9) Do all samples have the proper Base pH: Yes No (N/A) _____
10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	4	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic	1	Plastic Bag / Ziploc	
40 mL Vial - type listed below	~~6~~ 6	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: ~~6~~ Trip blank Put onto another jar 13C04486

40 mL vials: # HCl ~~6~~ 6 # Methanol ~~10~~
Bisulfate _____ # DI Water ~~20~~
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-12-13 14:59 IN

Doc# 277
Rev. 3 May 2012

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 1, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC Wash Water AST
Client Job Number:
Project Number: 31829188.00001
Laboratory Work Order Number: 13G0997

Enclosed are results of analyses for samples received by the laboratory on July 25, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/1/2013

PURCHASE ORDER NUMBER: 285510.US

PROJECT NUMBER: 31829188.00001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13G0997

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC Wash Water AST

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WWA-2	13G0997-01	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8315	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8315

Qualifications:

Analysis was requested after the recommended holding time had passed.

Analyte & Samples(s) Qualified:

Formaldehyde

13G0997-01RE1[WWA-2], B077684-MS1, B077684-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST
Sample Description:
Work Order: 13G0997

Date Received: 7/25/2013

Field Sample #: WWA-2
Sampled: 7/10/2013 14:30

Sample ID: 13G0997-01

Sample Matrix: Soil

Miscellaneous Organic Analyses

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Formaldehyde	ND	1.0	0.59	mg/Kg dry	1	H-10	SW-846 8315	7/29/13	7/30/13 17:09	JMP

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0997

Date Received: 7/25/2013

Field Sample #: WWA-2 | Sampled: 7/10/2013 14:30

Sample ID: 13G0997-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.7	2.2	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Arsenic	ND	2.7	0.96	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Beryllium	ND	0.27	0.043	mg/Kg dry	1		SW-846 6010C	7/25/13	7/29/13 12:31	OP
Cadmium	0.41	0.27	0.16	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Chromium	5.9	0.53	0.13	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Copper	11	0.53	0.41	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Lead	5.7	0.80	0.37	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Manganese	460	0.53	0.17	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Mercury	0.0058	0.028	0.0018	mg/Kg dry	1	J	SW-846 7471B	7/25/13	7/26/13 13:51	AMP
Nickel	3.4	0.53	0.13	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Selenium	ND	5.3	0.82	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Silver	ND	0.53	0.47	mg/Kg dry	1		SW-846 6010C	7/25/13	7/29/13 12:31	OP
Thallium	ND	2.7	0.89	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP
Zinc	33	1.1	0.28	mg/Kg dry	1		SW-846 6010C	7/25/13	7/27/13 14:53	OP

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC Wash Water AST | Sample Description: | Work Order: 13G0997

Date Received: 7/25/2013

Field Sample #: WWA-2 | Sampled: 7/10/2013 14:30

Sample ID: 13G0997-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.1		% Wt	1		SM 2540G	7/26/13	7/27/13 8:54	SMC

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13G0997-01 [WWA-2]	B077553	07/26/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0997-01 [WWA-2]	B077458	1.05	50.0	07/25/13

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0997-01 [WWA-2]	B077474	0.606	50.0	07/25/13

Prep Method: SW-846 8315-SW-846 8315

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13G0997-01RE1 [WWA-2]	B077684	5.47	25.0	07/29/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Miscellaneous Organic Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077684 - SW-846 8315										
Blank (B077684-BLK1)				Prepared: 07/29/13	Analyzed: 07/30/13					
Formaldehyde	ND	0.99	mg/Kg wet							
LCS (B077684-BS1)				Prepared: 07/29/13	Analyzed: 07/30/13					
Formaldehyde	5.56	0.97	mg/Kg wet	4.86		114	39-153		40	
Matrix Spike (B077684-MS1)		**Source: 13G0997-01RE1**		Prepared: 07/29/13	Analyzed: 07/30/13					
Formaldehyde	5.92	1.1	mg/Kg dry	5.25	ND	113	39-153		40	H-10
Matrix Spike Dup (B077684-MSD1)		**Source: 13G0997-01RE1**		Prepared: 07/29/13	Analyzed: 07/30/13					
Formaldehyde	5.59	1.1	mg/Kg dry	5.38	ND	104	39-153	5.77	40	H-10

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077458 - SW-846 3050B										
Blank (B077458-BLK1)				Prepared: 07/25/13 Analyzed: 07/26/13						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B077458-BS1)				Prepared: 07/25/13 Analyzed: 07/26/13						
Antimony	80.5	5.0	mg/Kg wet	106		76.0	8.2-218.9		30	
Arsenic	197	5.0	mg/Kg wet	182		108	83-117.6		30	
Beryllium	109	0.50	mg/Kg wet	98.3		111	83.9-116		30	
Cadmium	68.6	0.50	mg/Kg wet	60.4		114	83.1-116.9		30	
Chromium	142	0.99	mg/Kg wet	125		113	81.6-117.6		30	
Copper	88.9	0.99	mg/Kg wet	80.1		111	83.8-116.1		30	
Lead	137	1.5	mg/Kg wet	136		101	82.4-117.8		30	
Manganese	301	0.99	mg/Kg wet	279		108	82.8-117.5		30	
Nickel	140	0.99	mg/Kg wet	128		109	84.4-115.6		30	
Selenium	80.5	9.9	mg/Kg wet	85.9		93.7	80-120		30	
Silver	60.9	0.99	mg/Kg wet	61.3		99.3	66.2-133.8		30	
Thallium	144	5.0	mg/Kg wet	144		99.7	81.2-118.8		30	
Zinc	213	2.0	mg/Kg wet	204		104	81.9-117.6		30	
LCS Dup (B077458-BSD1)				Prepared: 07/25/13 Analyzed: 07/26/13						
Antimony	83.5	5.0	mg/Kg wet	106		78.8	8.2-218.9	3.63	30	
Arsenic	199	5.0	mg/Kg wet	182		109	83-117.6	0.886	30	
Beryllium	109	0.50	mg/Kg wet	98.3		111	83.9-116	0.0261	30	
Cadmium	69.5	0.50	mg/Kg wet	60.4		115	83.1-116.9	1.26	30	
Chromium	143	0.99	mg/Kg wet	125		114	81.6-117.6	0.665	30	
Copper	90.3	0.99	mg/Kg wet	80.1		113	83.8-116.1	1.57	30	
Lead	139	1.5	mg/Kg wet	136		102	82.4-117.8	0.863	30	
Manganese	305	0.99	mg/Kg wet	279		109	82.8-117.5	1.26	30	
Nickel	142	0.99	mg/Kg wet	128		111	84.4-115.6	1.51	30	
Selenium	83.3	9.9	mg/Kg wet	85.9		97.0	80-120	3.37	30	
Silver	60.9	0.99	mg/Kg wet	61.3		99.4	66.2-133.8	0.0539	30	
Thallium	146	5.0	mg/Kg wet	144		101	81.2-118.8	1.60	30	
Zinc	215	2.0	mg/Kg wet	204		106	81.9-117.6	1.17	30	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B077458 - SW-846 3050B										
MRL Check (B077458-MRL1)				Prepared: 07/25/13 Analyzed: 07/26/13						
Lead	0.823	0.71	mg/Kg wet	0.715		115	80-120			
Batch B077474 - SW-846 7471										
Blank (B077474-BLK1)				Prepared: 07/25/13 Analyzed: 07/26/13						
Mercury	ND	0.025	mg/Kg wet							
LCS (B077474-BS1)				Prepared: 07/25/13 Analyzed: 07/26/13						
Mercury	4.58	0.33	mg/Kg wet	4.05		113	71.6-128.1		30	
LCS Dup (B077474-BSD1)				Prepared: 07/25/13 Analyzed: 07/26/13						
Mercury	4.18	0.33	mg/Kg wet	4.05		103	71.6-128.1	9.00	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
H-10	Analysis was requested after the recommended holding time had passed.
J	Detected but below the Reporting Limit (lowest calibration standard); therefore, result is an estimated concentration (CLP J-Flag).

ANALYST

SMC	Steven M. Case
OP	Ornela Piluri
MJH	Matthew J. Hammond
MEK	Meghan E. Kelley
LAW	Lisa A. Worthington
JMP	Jessica M. Pace
AMP	Andrea M. Palpini

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Antimony	CT,NH,NY,NC,ME,VA
Arsenic	CT,NH,NY,ME,NC,VA
Beryllium	CT,NH,NY,ME,NC,VA
Cadmium	CT,NH,NY,ME,NC,VA
Chromium	CT,NH,NY,ME,NC,VA
Copper	CT,NH,NY,ME,NC,VA
Lead	CT,NH,NY,AIHA,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA
Nickel	CT,NH,NY,ME,NC,VA
Selenium	CT,NH,NY,ME,NC,VA
Silver	CT,NH,NY,ME,NC,VA
Thallium	CT,NH,NY,ME,NC,VA
Zinc	CT,NH,NY,ME,NC,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8315 in Soil	
Formaldehyde	NY

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

1360397

con-test® ANALYTICAL LABORATORY

CHAIN OF CUSTODY 1360997

39 Spruce Street
East longmeadow, MA 01028
Phone: 413-525-2332; Fax: 413-525-6405

COC #:
Lab Job #:
Lab Control #:

Client Information

URS Corporation
Name: 1600 Perimeter Park Drive, Suite 400
Address: Morrisville NC 27560
City: Martha Meyers-Lee State Zip
Send Report to:
Phone #: 919.461.1519

Facility Information

SOW No. 30 LNR Parcel 25 Investigation
Location: Lenoir, NC
AOC: Wash Water AST
Project No.: 31829188.00001
Regulatory: NC DENR UST Section

Analytical Information

Field ID / Point of Collection	Collection Date	Collection Time	Sampled By	Matrix	# of bottles	Preservation H2O	MeOH	HNO3	H2SO4	None	UST Section Guidance, Appendix B VOC (SW-846 8260B)	UST Section Guidance, Appendix B SVOC (SW-846 8270D)	Volatile Aliphatic and Aromatic Hydrocarbons (MADEP VPH)	Extractable Aliphatic and Aromatic Hydrocarbons (MADEP EPH)	Formaldehyde	Metals *	Chlorides 1/24*	Methane	Comments
Trip Blank	-	-	Lab	S	3	2	1				x								
01 WWA-2	7/10/13	1430	BM	S	6	2	3			1	x	x	x	x	X	X			
02 WWA-3		1440		S	6	2	3			1	x	x	x	x					
03 WWA-4		1500		S	6	2	3			1	x	x	x	x					
04 WWA-5		1510		S	6	2	3			1	x	x	x	x					
				S	6	2	3			1	x	x	x	x					
				S	6	2	3			1	x	x	x	x					
				S	0														
				S	0														

Metals – Sb, As, Ba, Cd, Cr, Cu, Pb, Mn, Ni, Se, Ag, Tl, Zn, Hg 00:10/74 71

Turnaround Information

- [X] 14 Day Standard — Approved By:
- [ ] 7 days
- [ ] 24 hour
- [ ] Other _____ (Days)

RUSH TAT is for FAX data
Data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [X] Other (Specify): Refer to Work Order
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

Note: Refer to Work Order (attached).

VOC samples collected in vials containing DI water must be frozen within 48 hours of collection.

Federal Express Air Bill No.:

Sample Custody must be documented below each time samples change possesion, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 BS	7/10/13 1800	1 Fed-X	2	7-11-13 9:23	2 Paula
3		3	4		4
5		5	Seal # / Preserved where applicable ☐		On Ice: ☐

07-11-13 10:43 IN

C:\Users\brandy_french\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.Outlook\1DIC3FPE\COC Record - Zeus (2013-06).xls

FedEx

796197877070

Ship (P/U) date :
Wed 7/10/2013 4:28 pm
New York, NY US

Delivered
Signed for by: P.BLAKE

Actual delivery :
Thur 7/11/2013 9:23 am
EAST LONGMEADOW, MA US

Travel History

Date/Time	Activity	Location
- 7/11/2013 - Thursday		
9:23 am	Delivered	EAST LONGMEADOW, MA
7:54 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
6:53 am	At local FedEx facility	WINDSOR LOCKS, CT
3:34 am	Departed FedEx location	NEWARK, NJ
- 7/10/2013 - Wednesday		
10:45 pm	Arrived at FedEx location	NEWARK, NJ
9:55 pm	Left FedEx origin facility	MOONACHIE, NJ
4:28 pm	Picked up Tendered at FedEx Office	CLIFTON, NJ
3:02 pm	Shipment information sent to FedEx	

Local Scan Time

Shipment Facts

Tracking number	796197877070	**Service**	FedEx Priority Overnight
Weight	7 lbs	**Dimensions**	13x10x9 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	7 lbs / 3.2 kgs	**Shipper reference**	200021.0000.0000
Packaging	Your Packaging	**Special handling section**	Deliver Weekday

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: URS RECEIVED BY: PB DATE: 7-11-13

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included
2) Does the chain agree with the samples? Yes No
   If not, explain:
3) Are all the samples in good condition? Yes No
   If not, explain:
4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank 4 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes No
   Who was notified _____ Date _____ Time _____
6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
   Who was notified _____ Date _____ Time _____
7) Location where samples are stored: Log in

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A
9) Do all samples have the proper Base pH: Yes No N/A
10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	4
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	19	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 9
Bisulfate _____ # DI Water 10
Thiosulfate _____ Unpreserved _____

Time and Date Frozen: 07-11-13 10:43 IN

Doc# 277
Rev. 3 May 2012

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 28, 2013

Martha Meyers-Lee
URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560

Project Location: Lenoir, NC
Client Job Number:
Project Number: 31829188
Laboratory Work Order Number: 13H0959

Enclosed are results of analyses for samples received by the laboratory on August 24, 2013. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lisa A. Worthington
Project Manager

QA Officer
Katherine Allen

Laboratory Manager
Daren Damboragian

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

URS - NC
1600 Perimeter Park Drive
Morrisville, NC 27560
ATTN: Martha Meyers-Lee

REPORT DATE: 8/28/2013

PURCHASE ORDER NUMBER: 294039.US

PROJECT NUMBER: 31829188

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 13H0959

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: Lenoir, NC

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
BG-1	13H0959-01	Soil		SM 2540G	
				SW-846 6010C	
BG-2	13H0959-02	Soil		SM 2540G	
				SW-846 6010C	
BG-3	13H0959-03	Soil		SM 2540G	
				SW-846 6010C	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC
Sample Description:
Work Order: 13H0959

Date Received: 8/24/2013

Field Sample #: BG-1
Sampled: 8/23/2013 10:50

Sample ID: 13H0959-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	14	0.56	0.14	mg/Kg dry	1		SW-846 6010C	8/27/13	8/27/13 17:54	KSH
Manganese	270	0.56	0.18	mg/Kg dry	1		SW-846 6010C	8/27/13	8/27/13 20:11	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC
Sample Description:
Work Order: 13H0959

Date Received: 8/24/2013

Field Sample #: BG-1
Sampled: 8/23/2013 10:50

Sample ID: 13H0959-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.3		% Wt	1		SM 2540G	8/27/13	8/28/13 9:53	WAL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC
Sample Description:
Work Order: 13H0959

Date Received: 8/24/2013

Field Sample #: BG-2
Sampled: 8/23/2013 11:40

Sample ID: 13H0959-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	12	0.64	0.16	mg/Kg dry	1		SW-846 6010C	8/27/13	8/27/13 17:58	KSH
Manganese	990	0.64	0.20	mg/Kg dry	1		SW-846 6010C	8/27/13	8/27/13 20:15	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC
Sample Description:
Work Order: 13H0959

Date Received: 8/24/2013

Field Sample #: BG-2
Sampled: 8/23/2013 11:40

Sample ID: 13H0959-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.4		% Wt	1		SM 2540G	8/27/13	8/28/13 9:53	WAL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC
Sample Description:
Work Order: 13H0959

Date Received: 8/24/2013

Field Sample #: BG-3
Sampled: 8/23/2013 12:35

Sample ID: 13H0959-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	DL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	27	0.66	0.16	mg/Kg dry	1		SW-846 6010C	8/27/13	8/27/13 18:02	KSH
Manganese	730	0.66	0.21	mg/Kg dry	1		SW-846 6010C	8/27/13	8/27/13 20:21	KSH

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Lenoir, NC
Sample Description:
Work Order: 13H0959

Date Received: 8/24/2013

Field Sample #: BG-3
Sampled: 8/23/2013 12:35

Sample ID: 13H0959-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.5		% Wt	1		SM 2540G	8/27/13	8/28/13 9:53	WAL

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
13H0959-01 [BG-1]	B079695	08/27/13
13H0959-02 [BG-2]	B079695	08/27/13
13H0959-03 [BG-3]	B079695	08/27/13

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
13H0959-01 [BG-1]	B079567	1.02	50.0	08/27/13
13H0959-02 [BG-2]	B079567	1.05	50.0	08/27/13
13H0959-03 [BG-3]	B079567	1.07	50.0	08/27/13

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B079567 - SW-846 3050B										
Blank (B079567-BLK1)				Prepared & Analyzed: 08/27/13						
Chromium	ND	0.50	mg/Kg wet							
Manganese	ND	0.50	mg/Kg wet							
LCS (B079567-BS1)				Prepared & Analyzed: 08/27/13						
Chromium	122	1.0	mg/Kg wet	125		97.7	81.6-117.6			
Manganese	260	1.0	mg/Kg wet	279		93.1	82.8-117.5			
LCS Dup (B079567-BSD1)				Prepared & Analyzed: 08/27/13						
Chromium	117	0.99	mg/Kg wet	125		93.6	81.6-117.6	4.33	30	
Manganese	257	0.99	mg/Kg wet	279		92.0	82.8-117.5	1.23	30	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
RL	Reporting Limit
MDL	Method Detection Limit
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
LCS Dup	Duplicate Laboratory Control Sample
MS	Matrix Spike Sample
MS Dup	Duplicate Matrix Spike Sample
REC	Recovery
QC	Quality Control
ppbv	Parts per billion volume
EPA	United States Environmental Protection Agency
% REC	Percent Recovery
ND	Not Detected
N/A	Not Applicable
DL	Detection Limit
NC	Not Calculated
LFB/LCS	Lab Fortified Blank/Lab Control Sample
ORP	Oxidation-Reduction Potential
wet	Not dry weight corrected
% wt	Percent weight
Kg	Kilogram
g	Gram
mg	Milligram
µg	Microgram
ng	Nanogram
L	Liter
mL	Milliliter
µL	Microliter
m3	Cubic Meter
EPH	Extractable Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons
APH	Air Petroleum Hydrocarbons
FID	Flame Ionization Detector
PID	Photo Ionization Detector
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

ANALYST

WAL	William A. Luchini
SMC	Steven M. Case
SAJ	Shamika A. Johnson
OP	Ornela Piluri
LAW	Lisa A. Worthington
KSH	Karen S. Hawks
JMH	Jaclynne Helie
CEC	Christian E. Collins

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Chromium	CT,NH,NY,ME,NC,VA
Manganese	CT,NH,NY,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2014
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2014
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2014
RI	Rhode Island Department of Health	LAO00112	12/30/2013
NC	North Carolina Div. of Water Quality	652	12/31/2013
NJ	New Jersey DEP	MA007 NELAP	06/30/2014
FL	Florida Department of Health	E871027 NELAP	06/30/2014
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2014
WA	State of Washington Department of Ecology	C2065	02/23/2014
ME	State of Maine	2011028	06/9/2015
VA	Commonwealth of Virginia	460217	12/14/2013
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

13H0959

39 Spruce Street
East Longmeadow, MA 01028

Company Name: UPS Corp
Address: 6000 Fairview Rd
Charlotte, NC 28210
Attention: Peter Thibideau
Project Location: Lenoir, NC
Sampled By: Brandy Costner / Matt Stone

Telephone: 704-202-2408
Project # 31829188
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ● EMAIL ○ WEBSITE
Fax #
Email: peter.thibodeau@ups.com
Format: ● PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	SW-846 6010C Chromium Manganese	% solid															
								2	2	2														
								I	I	I														
								G	G	G														
-01	BG-1	—	8/23/13 1050	—	G	S		X	X															
-02	BG-2	—	8/23/13 1140	—				X	X															
-03	BG-3	—	8/23/13 1235	—				X	X															

Analysis Requested

Dissolved Metals
○ Field Filtered
○ Lab to Filter

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
3-day TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Brandy Costner / UPS	8/23/13 - 1400
Received by: (signature) 3.9c	Date/Time: 8/24/13 922
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
3day TAT
○ 5-Day
○ 5-7-Day
○ 10-Day
RUSH †
○ †24-Hr †48-Hr
○ †72-Hr †4-Day
*Requires Lab Approval

Detection Limit Requirements
North Carolina
● 2L
○ GWPC
○ SWSL
○ OTHER

Program Information
○ DSCA ○ IHSB Orphaned Landfill
○ SWS Landfill ○ UST ○ REC
○ Other: _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN.
IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

FedEx

802663914842

Ship (P/U) date :
Fri 8/23/2013 2:06 pm
CHA US

Delivered
Signed for by: C.COLLINS

Actual delivery :
Sat 8/24/2013 9:22 am
MA US

Travel History

Date/Time	Activity	Location
- 8/24/2013 - Saturday		
9:22 am	Delivered	MA
8:45 am	On FedEx vehicle for delivery	WINDSOR LOCKS, CT
8:28 am	At local FedEx facility	WINDSOR LOCKS, CT
7:01 am	At destination sort facility	EAST GRANBY, CT
3:35 am	Departed FedEx location	MEMPHIS, TN
- 8/23/2013 - Friday		
10:37 pm	Arrived at FedEx location	MEMPHIS, TN
7:54 pm	Left FedEx origin facility	GASTONIA, NC
2:06 pm	Picked up	GASTONIA, NC

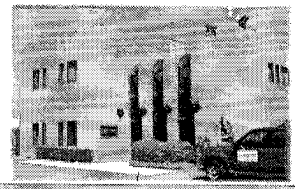
Local Scan Time

Shipment Facts

Tracking number	802663914842	**Service**	FedEx Priority Overnight
Weight	21 lbs	**Dimensions**	12x9x12 in.
Delivered To	Shipping/Receiving	**Total pieces**	1
Total shipment weight	21 lbs / 9.5 kgs	**Packaging**	Your Packaging
Special handling section	For Saturday Delivery		

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: URS Corp **RECEIVED BY:** JMM **DATE:** 8/24/13

1) **Was the chain(s) of custody relinquished and signed?** (Yes) No **No CoC Included**
2) **Does the chain agree with the samples?** (Yes) No
   If not, explain:
3) **Are all the samples in good condition?** (Yes) No
   If not, explain:
4) **How were the samples received:**

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.9C

5) **Are there Dissolved samples for the lab to filter?** Yes (No)
   Who was notified _____ Date _____ Time _____
6) **Are there any RUSH or SHORT HOLDING TIME samples?** (Yes) No
   Who was notified _____ Date _____ Time _____
7) **Location where samples are stored:** 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) **Do all samples have the proper Acid pH:** Yes No (N/A) _____
9) **Do all samples have the proper Base pH:** Yes No (N/A) _____
10) **Was the PC notified of any discrepancies with the CoC vs the samples:** Yes No (N/A)

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz amber/clear jar	3
500 mL Amber			4 oz amber/clear jar	3
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below			PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments: Custody seal

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

APPENDIX D

NORTH CAROLINA WELL CONSTRUCTION FORMS

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

DANNY SUMMERS

Well Contractor Name

A - 2579

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 07/04/13 **Well ID#** MW-1

5a. Well Location:

FMR SINGER PLANT

Facility/Owner Name

Facility ID# (if applicable)

914 VIRGINIA STREET SW LENOIR 28645

Physical Address, City, and Zip

CALDWELL

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 53' 35.12" N 81° 33' 12.64" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 12.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 7.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	4.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4.0 ft.	12.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3.5 ft.	12.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	5.0 ft.	RED/BROWN SILTY CLAY
5.0 ft.	12.0 ft.	GRAY/WHITE PARTIAL WEATHER ROCK
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 3.5 FEET

22. Certification:

Signature of Certified Well Contractor

07/16/13

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

NICHOLAS HAYES

Well Contractor Name

A - 4121

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 07/09/13 **Well ID#** MW-2

5a. Well Location:

FMR SINGER PLANT

Facility/Owner Name

Facility ID# (if applicable)

914 VIRGINIA STREET SW LENOIR 28645

Physical Address, City, and Zip

CALDWELL

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 53' 37.44" N 81° 33' 20.34" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 25.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 17.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 8.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	15.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15.0 ft.	25.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	11.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13.0 ft.	25.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	8.0 ft.	RED/BROWN CLAYEY SILT
8.0 ft.	16.0 ft.	BROWN SANDY SILT
16.0 ft.	21.0 ft.	TAN SANDY SILT
21.0 ft.	25.0 ft.	GRAY SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 11.0 TO 13.0 FEET

22. Certification:

Signature of Certified Well Contractor

07/16/13

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

NICHOLAS HAYES

Well Contractor Name

A - 4121

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 07/09/13 **Well ID#** MW-3

5a. Well Location:

FMR SINGER PLANT

Facility/Owner Name

Facility ID# (if applicable)

914 VIRGINIA STREET SW LENOIR 28645

Physical Address, City, and Zip

CALDWELL

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 53' 37.80" N 81° 33' 19.42" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 24.0 (ft.)

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 17.0 (ft.)

If water level is above casing, use "+"

11. Borehole diameter: 8.0 (in.)

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	14.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
14.0 ft.	24.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	10.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
12.0 ft.	24.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	8.0 ft.	RED/BROWN CLAYEY SILT
8.0 ft.	16.0 ft.	BROWN SANDY SILT
16.0 ft.	21.0 ft.	TAN SANDY SILT
21.0 ft.	24.0 ft.	GRAY SAND
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 10.0 TO 12.0 FEET

22. Certification:

Signature of Certified Well Contractor

07/16/13

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

NICHOLAS HAYES

Well Contractor Name

A - 4121

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☑Monitoring
- ☐Recovery

Injection Well:

- ☐Aquifer Recharge
- ☐Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 07/09/13 **Well ID#** MW-4

5a. Well Location:

FMR SINGER PLANT

Facility/Owner Name

Facility ID# (if applicable)

914 VIRGINIA STREET SW LENOIR 28645

Physical Address, City, and Zip

CALDWELL

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 53' 31.61" N 81° 33' 11.90" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 14.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 6.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 8.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	4.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
4.0 ft.	14.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	3.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
3.5 ft.	14.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	8.0 ft.	BROWN SILT
8.0 ft.	18.0 ft.	BROWN SANDY SILT
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 3.0 TO 3.5 FEET

22. Certification:

Signature of Certified Well Contractor

07/16/13

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

1. Well Contractor Information:

DANNY SUMMERS

Well Contractor Name

A - 2579

NC Well Contractor Certification Number

GEOLOGIC EXPLORATION, INC

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

- ☐Agricultural
- ☐Municipal/Public
- ☐Geothermal (Heating/Cooling Supply)
- ☐Residential Water Supply (single)
- ☐Industrial/Commercial
- ☐Residential Water Supply (shared)
- ☐Irrigation

Non-Water Supply Well:

- ☑Monitoring
- ☐Recovery

Injection Well:

- ☐Aquifer Recharge
- ☐Groundwater Remediation
- ☐Aquifer Storage and Recovery
- ☐Salinity Barrier
- ☐Aquifer Test
- ☐Stormwater Drainage
- ☐Experimental Technology
- ☐Subsidence Control
- ☐Geothermal (Closed Loop)
- ☐Tracer
- ☐Geothermal (Heating/Cooling Return)
- ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 07/12/13 **Well ID#** MW-5

5a. Well Location:

FMR SINGER PLANT

Facility/Owner Name

Facility ID# (if applicable)

914 VIRGINIA STREET SW LENOIR 28645

Physical Address, City, and Zip

CALDWELL

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

35° 53' 32.51" N 81° 33' 18.60" W

6. Is (are) the well(s): ☑**Permanent** or ☐**Temporary**

7. Is this a repair to an existing well: ☐**Yes** or ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

For multiple injection or non-water supply wells ONLY with the same construction, you can submit one form.

9. Total well depth below land surface: 23.0 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 17.0 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 7.0 **(in.)**

12. Well construction method: AUGER

(i.e. auger, rotary, cable, direct push, etc.)

FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

For Internal Use ONLY:

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0.0 ft.	13.0 ft.	2.0 in.	SCH 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
13.0 ft.	23.0 ft.	2.0 in.	.010	SCH 40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
0.0 ft.	9.0 ft.	PORTLAND BENTONITE	SLURRY
ft.	ft.		
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
11.0 ft.	23.0 ft.	20-40	FINE SILICA SAND
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0.0 ft.	10.0 ft.	RED/BROWN SILT
10.0 ft.	20.0 ft.	TAN/GRAY SAND
20.0 ft.	23.0 ft.	GRAY PARTIALLY WEATHERED ROCK
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

BENTONITE SEAL FROM 9.0 TO 11.0 FEET

22. Certification:

Signature of Certified Well Contractor

07/16/13

Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

SUBMITTAL INSTUCTIONS

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

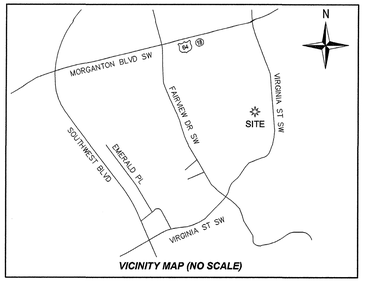
24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Injection Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

APPENDIX E

SITE SURVEY



VICINITY MAP (NO SCALE)

SURVEY CONTROL / GRID TIE NOTES

THE CONTROL LINE SHOWN HEREON WAS ESTABLISHED BY GPS SURVEY METHODOLOGIES USING THE NORTH CAROLINA GEODETIC SURVEY'S (NCGS) VIRTUAL REFERENCE SYSTEM (VRS), WHICH IS BASED UPON THE CONTINUALLY OPERATING REFERENCE STATIONS (CORS). SURVEY METADATA IS AS FOLLOWS:

HORIZONTAL DATUM/EPOCH: NAD83 (2011) NC STATE PLANE COORDINATE SYSTEM
VERTICAL DATUM: NAVD88 (GEOID 12A)
POINT OF LOCALIZATION: CONTROL POINT # 2
COMBINED FACTOR: 0.99968815
DATE OF GPS SURVEY: 07/12/2013
GPS ANTENNA: TRIMBLE R8
TYPE OF GPS FIELD PROCEDURE: REAL TIME KINEMATIC NETWORKS (VRS)
FIXED STATION HELD FOR THE SURVEY:
NAME: YALE PID: AH5530
LATITUDE: 35°53'48.22099"
LONGITUDE: 81°33'37.99035"
ELLIPSOID HEIGHT: 294.684m
GEOID HEIGHT: -32.42m
ELEVATION: 1073.17 (FEET)
ADJUSTMENT: SURVEY DATA WAS POST PROCESSED WITH TRIMBLE GEOMATICS OFFICE (TGO) USING A NETWORK LEAST SQUARES ADJUSTMENT AT THE 95% CONFIDENCE LEVEL.
CLASS OF SURVEY: CLASS A

GENERAL NOTES

1) THE PURPOSE OF THIS PLAT IS TO DOCUMENT THE MONITORING WELLS AND SOIL BORING LOCATIONS SET OUT BY URS CORPORATION IN RELATION TO PROPERTY LINES AND BUILDING FOUNDATIONS SITUATED ON THE SUBJECT PROPERTY .

2) THIS MAP DOES NOT REPRESENT A BOUNDARY SURVEY.

3) PROPERTIES SHOWN HEREON ARE SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD THAT WOULD BE REVEALED BY A THOROUGH TITLE SEARCH. THIS PLAT SHOULD NOT BE RELIED UPON AS A COMPLETE RECORD OF ALL EASEMENTS THAT MAY EFFECT THESE PROPERTIES.

4) UNIT OF MEASUREMENT IS U.S. SURVEY FEET (FT) UNLESS SPECIFICALLY NOTED AS METERS (m).

5) ALL DISTANCES AND COORDINATES SHOWN HEREON ARE LOCALIZED, GROUND INFORMATION, UNLESS SPECIFICALLY NOTED AS "GRID"..

ABBREVIATIONS

IPF IRON PIPE FOUND
MNF MAG NAIL FOUND
DB DEED BOOK
N/F NOW OR FORMERLY
PB PLAT BOOK
PG PAGE
R/W RIGHT-OF-WAY

PROPERTY DATA

CURRENT OWNER: TAPAHA DYNAMICS LLC
SITE ADDRESS: 914 VIRGINIA STREET (SR 1145)
PARCEL ID: 06162 1 1A

SURVEY REFERENCES

DEED BOOK 19 PAGE 145
DEED BOOK 901 PAGE 1
DEED BOOK 175 PAGE 192
PLAT BOOK 26 PAGE 95

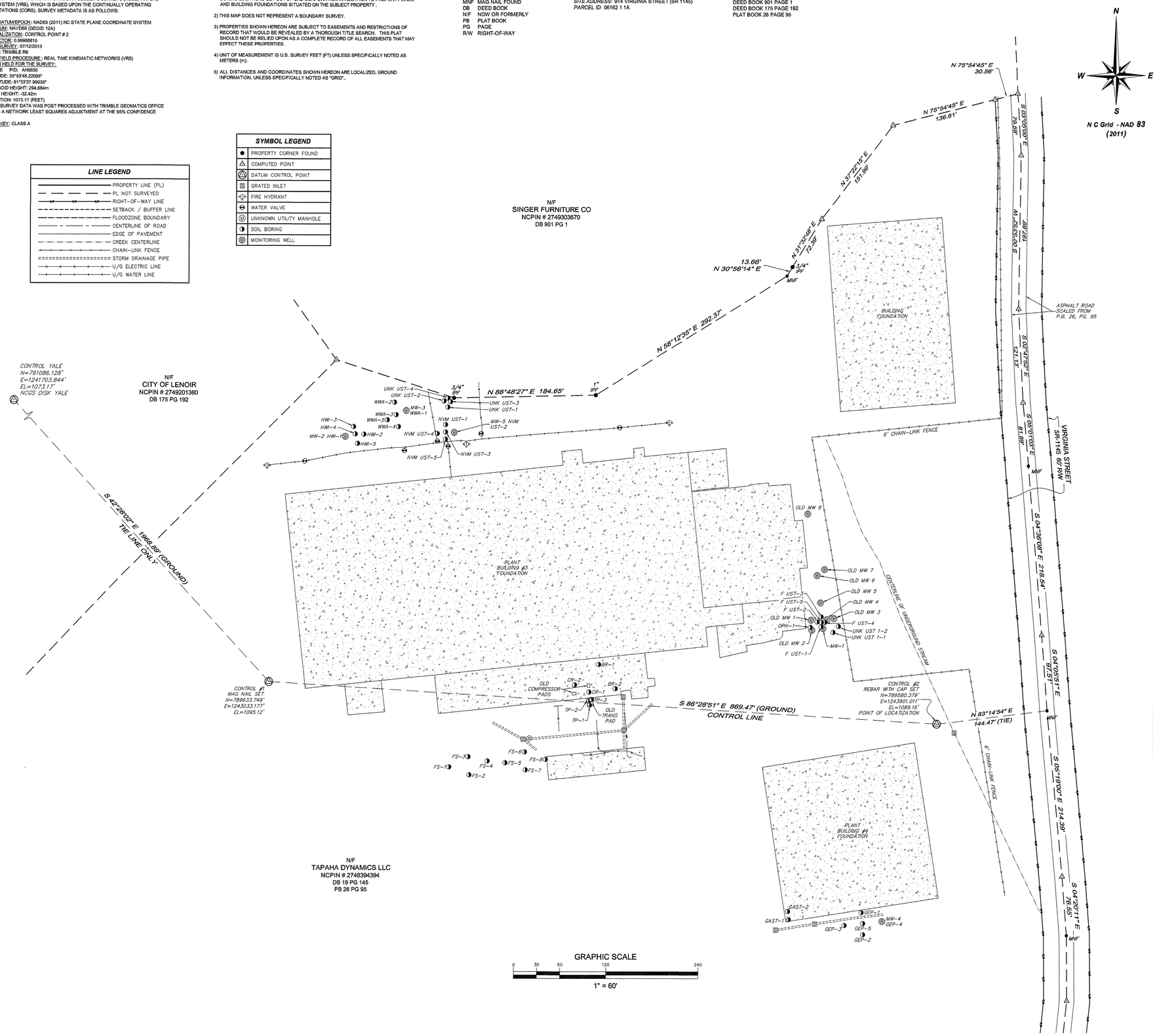
LOCATION ID	NORTHING	EASTING	TOP OF CASING ELEVATION	GROUND ELEVATION
MW-1	789703.348	1243753.542	1094.93	1092.3
UNK UST-1	789987.934	1243265.267	N/A	1091.2
UNK UST-2	789995.895	1243260.298	N/A	1091.4
UNK UST-3	789994.957	1243268.906	N/A	1091.3
UNK UST-4	789999.509	1243265.393	N/A	1091.4
NVM UST-1	789965.529	1243262.296	N/A	1091.2
MW-5 NVM UST-2	789955.483	1243273.591	1093.49	1091.0
NVM UST-3	789955.994	1243262.281	N/A	1091.0
NVM UST-4	789953.961	1243251.592	N/A	1091.1
NVM UST-5	789946.719	1243262.203	N/A	1090.9
MW-3 WWA-1	789983.309	1243211.204	1094.19	1091.3
WWA-2	789994.050	1243195.818	N/A	1091.2
WWA-3	789977.955	1243198.011	N/A	1091.2
WWA-4	789962.638	1243201.053	N/A	1091.1
WWA-5	789971.433	1243186.423	N/A	1091.3
MW-2 HWI-1	789949.878	1243131.776	1093.86	1091.1
HWI-2	789952.860	1243156.021	N/A	1091.1
HWI-3	789962.574	1243142.597	N/A	1091.0
HWI-4	789953.135	1243144.847	N/A	1091.1
HWI-5	789941.048	1243147.779	N/A	1091.2
F UST-1	789705.496	1243751.147	N/A	1092.2
F UST-2	789711.764	1243745.861	N/A	1092.1
F UST-3	789718.367	1243751.052	N/A	1092.2
F UST-4	789711.299	1243755.797	N/A	1091.9
F UST-5	789711.162	1243751.377	N/A	1092.0
UNK UST 1-1	789698.157	1243766.525	N/A	1092.1
UNK UST 1-2	789705.933	1243773.533	N/A	1092.1
OLD MW 1	789714.059	1243737.851	N/A	1092.4
OLD MW 2	789701.047	1243739.055	N/A	1092.4
OLD MW 3	789714.756	1243758.399	N/A	1092.3
OLD MW 4	789716.160	1243767.487	N/A	1092.1
OLD MW 5	789736.477	1243750.203	N/A	1092.2
OLD MW 6	789771.827	1243745.738	N/A	1092.3
OLD MW 7	789779.512	1243755.335	N/A	1092.3
OLD MW 8	789850.915	1243733.531	N/A	1092.1
OPH-1	789704.746	1243737.124	N/A	1092.5
FS-1	789525.035	1243267.436	N/A	1096.1
FS-2	789514.953	1243293.585	N/A	1095.5
FS-3	789538.248	1243292.430	N/A	1095.9
FS-4	789532.753	1243317.299	N/A	1095.9
FS-5	789530.384	1243340.418	N/A	1095.8
FS-6	789544.465	1243365.827	N/A	1095.7
FS-7	789521.474	1243366.730	N/A	1095.4
FS-8	789534.808	1243392.917	N/A	1095.6
TP-1	789604.386	1243450.316	N/A	1096.2
TP-2	789609.603	1243448.946	N/A	1096.3
TP-3	789611.701	1243453.008	N/A	1096.5
CR-1	789621.326	1243449.512	N/A	1096.6
CR-2	789630.473	1243430.793	N/A	1096.5
BR-1	789656.620	1243462.158	N/A	1096.5
BR-2	789625.536	1243483.756	N/A	1096.5
GEP-1	789337.312	1243803.441	N/A	1093.6
GEP-2	789308.833	1243805.384	N/A	1093.5
GEP-3	789320.840	1243781.402	N/A	1093.3
MW-4 GEP-4	789325.853	1243830.411	1096.21	1093.5
GEP-5	789323.331	1243805.550	N/A	1093.3
GAST-1	789328.637	1243709.204	N/A	1094.2
GAST-2	789339.054	1243708.280	N/A	1094.2

LINE LEGEND

- PROPERTY LINE (PL)
- PL NOT SURVEYED
- RIGHT-OF-WAY LINE
- SETBACK / BUFFER LINE
- FLOODZONE BOUNDARY
- CENTERLINE OF ROAD
- EDGE OF PAVEMENT
- CREEK CENTERLINE
- CHAIN-LINK FENCE
- STORM DRAINAGE PIPE
- U/G ELECTRIC LINE
- U/G WATER LINE

SYMBOL LEGEND

- PROPERTY CORNER FOUND
- COMPUTED POINT
- DATUM CONTROL POINT
- GRATED INLET
- FIRE HYDRANT
- WATER VALVE
- UNKNOWN UTILITY MANHOLE
- SOIL BORING
- MONITORING WELL



I, TIMOTHY S. GUISEWHITE, CERTIFY THAT THIS PLAT WAS DRAWN UNDER MY SUPERVISION, FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION; THAT THE LOCATION OF SIGNIFICANT ITEMS SUCH AS HORIZONTAL CONTROL LINES AND MONITORING WELLS SHALL BE SHOWN WITHIN SCALING ACCURACY OF AND IN RELATIONSHIP TO THE HORIZONTAL CONTROL LINE OR CONTROL POINTS TO EACH OTHER; THAT THIS PLAT WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA, AS AMENDED. WITNESS MY ORIGINAL SIGNATURE, REGISTRATION NUMBER AND SEAL THIS 22nd DAY OF JULY, 2013.

NORTH CAROLINA PROFESSIONAL SEAL L-4912 LAND SURVEYOR TIMOTHY S. GUISEWHITE

7-22-2013

TIMOTHY S. GUISEWHITE, PLS N.C. REG. NO. L-4912

SURVEY PREPARED FOR:

URS

SURVEY PERFORMED BY:

TAYLOR WISEMAN & TAYLOR
ENGINEERS I SURVEYORS I SCIENTISTS
SUBSURFACE UTILITY ENGINEERS
700 FOREST POINT CIRCLE, SUITE 116
CHARLOTTE, NC 28273
PHONE (704) 527-2535 FAX (704) 527-2537
NORTH CAROLINA LICENSE NUMBER: F-0362

PLAT SHOWING MONITORING WELL AND BORING LOCATIONS

914 VIRGINIA STREET
CALDWELL COUNTY - LENOIR, NC 28645

REVISIONS:

DATE OF SURVEY:	07/12/2013
SCALE:	1" = 60'
DRAWN BY:	ZRR
CHECKED BY:	T. GUISEWHITE, PLS
PROJECT:	03221.6005.00
SHEET:	1 / 1

g:\CAD\03221\03221.6005.00\dwg\03221.6005.00_BASE.dwg