Phase II Environmental Site Assessment

23 - 25 Lakeview Avenue
Reading, Massachusetts

EBI Project No. 511500077

December 4, 2015

Prepared for:

Lakeview Realty Trust
Reading, Massachusetts

Prepared by:

EBI Consulting
environmental | engineering | due diligence

EBI Consulting
environmental | engineering | due diligence

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Burlington, MA 01803
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December 4, 2015

Mr. William Zanni
Lakeview Realty Trust
Reading, Massachusetts 01867

Subject: Phase II Environmental Site Assessment
23 - 25 Lakeview Avenue, Reading, Massachusetts
EBI Project No.: 5115000077

Dear Mr. Zanni:

In accordance with the Proposal and Standard Conditions for Engagement approved by yourself on November 12, 2015, EBI Consulting (dba EBI Consulting, hereinafter "EBI") is pleased to submit this Phase II Environmental Site Assessment (ESA) Report (Report) for the above-referenced property (herein referred to as the Subject Property).

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

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

The conclusions of this Report are based on soil analytical data prepared by ConTest Analytical Laboratory, soil screening results obtained utilizing a field screening instrument, and field observations recorded by EBI personnel.

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

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

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

Respectfully submitted,
EBI CONSULTING

Lauren Bell
Author/Project Scientist

Ed Giordano
Reviewer/Senior Project Manager
(781) 418-2316

TABLE OF CONTENTS

1.0 INTRODUCTION

In accordance with our Proposal and Standard Conditions for Engagement, EBI Consulting (EBI) is pleased to submit our *Phase II Environmental Site Assessment (ESA) Report (Report)* on the property located at 23 - 25 Lakeview Avenue, Reading, Massachusetts (the Subject Property). Lauren Bell of EBI Consulting conducted the Phase II ESA at the Subject Property on November 16, 2015.

Background

EBI was requested to conduct a Phase II ESA to identify, in a general manner, possible historical impacts to the Subject Property. It should be noted that no impacts or releases are known.

2.0 PURPOSE AND SCOPE OF WORK

This Phase II ESA was conducted utilizing a standard of good commercial and customary practice that was consistent with the ASTM Practice E 1903-97. Any significant scope-of-work additions, deletions or deviations to ASTM Practice E 1903-97 are noted below or in the corresponding sections of this report.

The primary purpose of this investigation was to identify, in a general manner, possible historical impacts. It should be noted that no impacts or release are known. The investigation focused on four (4) test pit locations throughout the Subject Property.

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

- Completed four (4) test pits to depths of 0 to 6 feet below ground surface (bgs).

- Collected one soil sample per test pit, field screened the vapor headspace of the soil samples for total ionizable volatile organic compounds (VOCs) using a photoionization detector (PID), and described the physical characteristics of the soil samples on test pit logs. See Section 4.3 for additional details.

- Selected 1 soil sample per test pit, prepared, and submitted the samples under chain-of-custody documentation to a MA-certified independent laboratory for analysis of total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs) via EPA Method 8270 and polychlorinated Byphenols (PCBs) via EPA Method 8082. See Section 4.4 for additional details.

- Prepared this summary of pertinent information obtained during this investigation including accompanying illustrations and appendices, along with EBI's findings and preliminary conclusions regarding the presence or absence of contamination in soils beneath the Subject Property in the areas investigated.

A detailed description of investigation methods is provided in Section 4.0 of this report.

3.0 SUBJECT PROPERTY DESCRIPTION/PHYSICAL SETTING

3.1 SUBJECT PROPERTY DESCRIPTION

The Subject Property is known as the 23 - 25 Lakeview Avenue in Reading, Massachusetts. The Subject Property is located at the intersection/interchange of Eaton Street and Lakeview Avenue. The buildings on the Subject Property consist of 3 multi-story structures, totaling approximately 27,000+ square feet,. The existing buildings were constructed between 1920 and 1950.

According to the Town of Reading Assessor's Office, the Subject Property is owned by Lakeview Realty Trust.

3.2 PHYSICAL SETTING

Regional Geology/Bedrock

Refusal, possibly bedrock or a large obstruction was encountered at 1.5' feet bgs in the borings TP-01. However, no obstructions or bedrock were encountered in locations TP-02, TP-03 or TP-04.

Surficial

The Subject Property is located in an area comprised of "urban land". This soil type is characterized as a non-homogeneous distribution of soil and fill types. Excavation and backfilling for building foundations, utility conduits, subway systems and other construction results in a varied subsurface profile.

Surface drainage on the Subject Property occurs over primarily to the southeast. No prior soil studies or borings were presented to EBI for review. No indication of cross-lot runoff, swales, drainage flows, or active rills or gullies were observed on the Subject Property.

Soil stratigraphy encountered during the completion of test pits consisted of asphalt and fill material overlain a silty sand.

Hydrogeology

Shallow groundwater was not encountered in any of the 4 test pits at the Subject Property.

Local groundwater gradient is expected to follow surface topography; therefore, groundwater flow near the Subject Property is expected to flow to the southeast. Groundwater depths and flow gradients are best evaluated by a subsurface investigation involving the installation of at least three groundwater-monitoring wells, survey of well elevations, and precise measurements of hydraulic head. Calculation of groundwater flow directions based on relative differences of hydraulic head on the Subject Property was not included in this scope of work. No monitoring wells were installed.

4.0 FIELD ACTIVITIES

4.1 RATIONALE FOR TEST PIT PLACEMENT

On November 16, 2015 EBI conducted a Phase II ESA to identify, in a general manner, possible historical impacts. The areas investigated and the associated test pit numbers are described below:

- Test Pit TP-01 is located approximately 50' south of Building #2;
- Test Pit TP-02 is located approximately 20' southwest of TP-01;
- Test Pit TP-03 is located approximately 80' northwest of TP-02;
- Test Pit TP-04 is located approximately 90' north of TP-03.

The boring location map is provided in Appendix A.

4.2 PRE-DRILLING ACTIVITIES

Mr. William Zanni requested DigSafe to mark-out the location of Subject Property utilities. No additional pre-drilling activities were performed as part of this investigation.

4.3 COMPLETION OF TEST PITS

A total of four test pits were advanced at the Subject Property. All of the test pits were advanced using a excavator operated by William Zanni of Reading, MA. A discrete composite sample was collected from each of the test pits. EBI recorded soil sampling information and the physical characteristics of each soil sample onto test pits logs presented in Appendix B.

TABLE 4.3
SUMMARY OF TEST PIT DETAILS

Test Pit #	Sample ID	Analytical Analysis	Depth of Boring	Depth To GW
TP-01	TP-01	TPH, SVOCs, and PCBs	Refusal at 1.5' bgs (bedrock?)	NA
TP-02	TP-02	TPH, SVOCs, and PCBs	6' bgs	NA
TP-03	TP-03	TPH, SVOCs, and PCBs	6' bgs	NA
TP-04	TP-04	TPH, SVOCs, and PCBs	6' bgs	NA
Notes: TPH - Total petroleum hydrocarbons (TPH) SVOCs –Semi-volatile organic compounds (VOCs) via EPA Method 8260 PCBs - Polychlorinated byphenols via EPA Method 8082. S – Soil Sample (#) – Depth below grade sample collected.				

4.4 FIELD SCREENING

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

A slight petroleum odor was noted at TP-04. PID readings ranged from 0.0 to 0.8 parts per million (ppm). Mr. Zanni indicated that several trucks had, at one time, been parked in that area for many years. The PID results are noted in the Boring Logs provided in Appendix B.

4.5 SOIL SAMPLING AND ANALYSIS

Selected soil samples were collected in laboratory-provided sample containers. Each sample was labeled/logged onto a chain-of-custody form, and placed in a cooler with ice for preservation in accordance with current Federal EPA SW-846 (3rd ed.). The samples were submitted to an independent qualified laboratory (ConTest Analytical Laboratory) for analyses. The samples were analyzed for total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs) via EPA Method 8270 and polychlorinated byphenols (PCBs) via EPA Method 8082.

In order to ensure that no cross-contamination between samples occurred, all non-dedicated sampling equipment was decontaminated after the collection of each sample. Dedicated sampling equipment such as latex gloves were properly disposed of after the handling of each sample was complete. Samples were then collected using clean disposable gloves and laboratory-provided glassware appropriate for the specified analysis.

4.6 ABANDONMENT OF TEST PITS

Upon completion of the soil sampling activities, each test pit was filled with the soil cuttings generated during the sampling activities.

5.0 RESULTS

Test Pit locations and sampling locations are illustrated on Figure 1, Test Pit Locations.

5.1 SOIL ANALYSIS RESULTS

The soil samples were analyzed for total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs) via EPA Method 8270 and polychlorinated byphenols (PCBs) via EPA Method 8082. The following table presents only the contaminants identified above the laboratory method detection limits:

Table 5.1 – Soil Analytical Results

SAMPLE IDENTIFICATION (Results in mg/kg)					
Parameter	**Sample # TP-01**	**Sample # TP-02**	**Sample # TP-03**	**Sample # TP-04**	**MCP Method 1 Cleanup Standards**
Sample Depth (ft.)	**1.5' bgs**	**6' bgs**	**6' bgs**	**6' bgs**	
TOTAL PETROLEUM HYDROCARBONS (TPH)					
TPH	230	150	57	180	1000
SEMI-VOLATILE ORGANIC COMPOUNDS (SVOCS)					
PYRENE	0.19	0.22	0.19	0.19	1000
POLYCHLORINATED BYPHENOLS (PCBS)					
PCB 1260	ND	ND	ND	0.17	1

Notes: All results are shown in milligrams per kilogram (mg/kg)
ND = Non-detected above laboratory detection limits

The analytical results revealed low level concentrations of TPH, Pyrene, and PCB 1260 were detected above laboratory detection limits in the soil samples collected. However, it should be noted, that they all well below the MCP Method 1 Cleanup Standards.

6.0 FINDINGS & CONCLUSIONS

The results of EBI's Phase II ESA revealed:

- Four test pits were advanced at the Subject Property to characterize subsurface conditions and advanced using an excavator. A soil sample was collected from each test pit and analyzed for total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs) via EPA Method 8270 and polychlorinated byphenols (PCBs) via EPA Method 8082.

- Due to shallow refusal on apparent bedrock encountered at location TP-01, a shallow soil sample was collected from 1.5' bgs.

- No significant concentrations of TPH, SVOCs or PCBs were detected in the soil samples collected.

7.0 RECOMMENDATIONS

Based on the findings and conclusions of this Phase II ESA, EBI has no recommendations for further investigations.

8.0 LIMITATIONS

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

ATTACHMENT A
LIMITATIONS

1. The observations described in this *Report* were made under the conditions stated herein. The conclusions presented are based solely upon the services described, and not on scientific tasks or procedures beyond the scope of described services or the time and budgetary constraints imposed by Client. The work described in this *Report* was carried out in accordance with terms and conditions in our *Authorization Letter* and *Agreement for Environmental Services* regarding the Site, which are incorporated herein by references.

2. In preparing this *Report*, EBI has relied on certain information provided by state and other referenced parties, and on information contained in the files of federal, state and/or local agencies available to EBI at the time of the assessment. Although there may have been some degree of overlap in the information provided by these various sources, EBI did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of these *Environmental Services*.

3. Observations were made of the Site and of structures on the Site as indicated within the *Report*. Where access to portions of the Site or to structures on the Site was unavailable or limited, EBI renders no opinion as to the presence of oil or hazardous materials (OHM) in that portion of the Site or structure. In addition, EBI renders no opinion as to the presence of OHM or the presence of indirect evidence relating to OHM where direct observation of the interior walls, floor, or ceiling of a structure on a Site was obstructed by objects or coverings on or over these surfaces. No representations concerning insulating material is expressed or implied.

4. EBI did not perform testing or analyses to determine the presence or concentration of asbestos, radon, or lead at the Site unless specifically stated otherwise in the *Report*. Similarly, no investigation of dust or air quality was conducted unless specifically stated otherwise in the *Report*.

5. The purpose of this *Report* is to assess the physical characteristics of the Site with respect to the presence of OHM in the environment. No specific attempt was made to determine the compliance of present or past owners or operators of the Site with federal, state, or local laws or regulations (environmental or otherwise).

6. Except as noted in the *Report*, no quantitative laboratory testing was performed as part of the assessment. Where such analyses have been conducted by an outside laboratory, EBI has relied upon the data provided, and has not conducted an independent evaluation of the reliability of this data.

7. Any qualitative or quantitative information regarding the Site, which was not available to EBI at the time of this assessment may result in a modification of the representations made herein.

8. It is acknowledged that EBI judgments shall not be based on scientific or technical test or procedures beyond the scope of the Services or beyond the time and budgetary constraints imposed by Client. It is acknowledged further that EBI conclusions shall not rest on pure science but on such considerations as economic feasibility and available alternatives. Client also acknowledges that, because geologic and soil formations are inherently random, variable, and indeterminate in nature, the Services and opinions provided under this Agreement with respect to such Services, are not guaranteed to be a representation of actual conditions on the Site, which are also subject to change with time as a result of natural or man-made processes, including water permeation. In performing the Services, EBI shall use that degree of care and skill ordinarily exercised by environmental consultants or engineers performing similar services in the same or similar locality. The standard of care shall be determined solely at the time the Services are rendered and not according to standards utilized at a later date. The Services shall be rendered without any other warranty, expressed or implied, including, without limitation, the warranty of merchant ability and the warranty of fitness for a particular purpose.

9. Client and EBI agree that to the fullest extent permitted by law, EBI shall not be liable to Client for any special, indirect or consequential damages whatsoever, whether caused by EBI's negligence, errors, omissions, strict liability, breach of contract, breach of warranty or other cause of causes whatsoever.

APPENDIX A
FIGURE

LEGEND:

● = EBI Soil Test Pits for Pre-Characterization

Drawing Not to scale.

N

EBI Consulting
environmental | engineering | due diligence

Figure 1: Test Pit Locations

APPENDIX B
TEST PIT LOGS

Test Pit Report

EBI CONSULTING
21 B Street, Burlington, MA 01803

Project Number: 5115000077
Project Location: Lakeview Avenue Reading, MA
Date: 11/16/2015
EBI Scientist: Lauren Bell
Drilling Co: NA
Drilling Foreman: William
Drilling Method: Excavator
Test Pit Diameter Approx. 2'x4'x1.5'

Depth (Feet)	Primary Material Composition	2nd ary Material Composition	Sample ID	Sample Depth	PID ppm	GW Notes	Comments
Surface							
0-1'	Asphalt, organic material (0-0.5' bgs) Medium sand, some gravel, trace silt, brown, moist	N/A	TP-01		0	N/A	
1-1.5'	Medium sand, some gravel, trace silt, brown, moist	N/A			0	N/A	Refusal at 1.5' bgs due to bedrock/ledge

NOTES:

Color	Grain Size	Material	Quantity	Moisture Content	Density
L = Light	F= Fine	Sa = SAND	and = 35-50%	wet = dripping	VL = Very Loose = 5 blows/ft & <
M = Medium	M = Medium	G = GRAVEL	some = 20-35%	moist = can squeeze a drop	L = Loose = 6-10 blows/ft
D = Dark	C = Coarse	Si = SILT	little = 10-20%	damp = some discernable water	MD = M. Dense = 11-30 blows/ft
Mt = Mottled		C = CLAY	Trace = <10%	dry = no discernable water at all	D = Dense = 31-50 blows/ft
B = Brown		O = ORGANIC			VD = V. Dense = 51 blows/ft & >
Bl = Black		L = LOAM			
G = Gray		T = TILL			
O = Orange		F = FILL			
R = Red		P = Peat			

EBI CONSULTING

21 B Street, Burlington, MA 01803

Test Pit Report

Project Number: 5115000077
Project Location: Lakeview Avenue Reading, MA
Date: 11/16/2015
EBI Scientist: Lauren Bell
Drilling Co: NA
Drilling Foreman: William
Drilling Method: Excavator
Test Pit Diameter Approx. 2'x4'x6'

Depth (Feet)	Primary Material Composition	2nd ary Material Composition	Sample ID	Sample Depth	PID ppm	GW Notes	Comments
Surface							
0-1'	Asphalt, organic material (0-0.5' bgs) Medium sand, some gravel, trace silt, brown, moist	N/A	TP-02		0	N/A	
1-2'	Fine to medium sand, trace silt, trace gravel, light brown, moist	N/A			0	N/A	
2-3'	Medium sand, some gravel, trace silt, brown, moist	N/A			0	N/A	
3-4'	Medium sand, some silt, trace gravel, brown, moist	N/A			0	N/A	
4-5'	Medium to fine sand, some silt, trace gravel, dark brown, moist	N/A			0	N/A	
5-6'	Medium sand, some silt, trace gravel, light brown, moist	N/A			0	N/A	

NOTES:

Color	Grain Size	Material	Quantity	Moisture Content	Density
L = Light	F= Fine	Sa = SAND	and = 35-50%	wet = dripping	VL = Very Loose = 5 blows/ft & <
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EBI CONSULTING

21 B Street, Burlington, MA 01803

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Date: 11/16/2015
EBI Scientist: Lauren Bell
Drilling Co: NA
Drilling Foreman: William
Drilling Method: Excavator
Test Pit Diameter Approx. 2'x4'x6'

Depth (Feet)	Primary Material Composition	2nd ary Material Composition	Sample ID	Sample Depth	PID ppm	GW Notes	Comments
Surface							
0-1'	Asphalt, organic material (0-0.5' bgs) Medium sand, trace silt, trace gravel, brown, moist	N/A	TP-03		0	N/A	
1-2'	Medium sand and gravel, trace silt, light brown, moist	N/A			0	N/A	
2-3'	Medium sand, trace silt, trace gravel, light brown, moist	N/A			0	N/A	
3-4'	Medium sand, some silt, trace gravel, light brown, moist	N/A			0	N/A	
4-5'	Medium to fine sand, some silt, trace gravel, light brown, moist	N/A			0	N/A	
5-6'	Medium sand, some silt, trace gravel, light brown, moist	N/A			0	N/A	

NOTES:

Color	Grain Size	Material	Quantity	Moisture Content	Density
L = Light	F= Fine	Sa = SAND	and = 35-50%	wet = dripping	VL = Very Loose = 5 blows/ft & <
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EBI CONSULTING

21 B Street, Burlington, MA 01803

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Test Pit Diameter Approx. 2'x4'x6'

Depth (Feet)	Primary Material Composition	2nd ary Material Composition	Sample ID	Sample Depth	PID ppm	GW Notes	Comments
Surface							
0-1'	Asphalt, organic material (0-0.5' bgs) Medium sand, trace silt, trace gravel, dark brown, moist	N/A	TP-04		0.4	N/A	
1-2'	Medium to fine sand, some gravel, trace silt, light brown, moist	N/A			0.5	N/A	
2-3'	Medium sand, some gravel, trace silt, light brown, moist	N/A			0.8	N/A	
3-4'	Medium sand, some silt, trace gravel, dark brown to black, moist	N/A			0.6	N/A	
4-5'	Medium to fine sand and silt, trace gravel, dark brown, moist	N/A			0.4	N/A	
5-6'	Medium sand and silt, trace gravel, dark brown, moist	N/A			0.2	N/A	

NOTES:

Color	Grain Size	Material	Quantity	Moisture Content	Density
L = Light	F= Fine	Sa = SAND	and = 35-50%	wet = dripping	VL = Very Loose = 5 blows/ft & <
M = Medium	M = Medium	G = GRAVEL	some = 20-35%	moist = can squeeze a drop	L = Loose = 6-10 blows/ft
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B = Brown		O = ORGANIC			VD = V. Dense = 51 blows/ft & >
Bl = Black		L = LOAM			
G = Gray		T = TILL			
O = Orange		F = FILL			
R = Red		P = Peat			

APPENDIX C
LABORATORY ANALYTICAL RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION

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

November 23, 2015

Lauren Bell
EBI Consultants
21 B Street
Burlington, MA 01803

Project Location: 22 Lakeview Ave., Reading, MA
Client Job Number:
Project Number: [none]
Laboratory Work Order Number: 15K0672

Enclosed are results of analyses for samples received by the laboratory on November 16, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

Table of Contents

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

EBI Consultants
21 B Street
Burlington, MA 01803
ATTN: Lauren Bell

REPORT DATE: 11/23/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15K0672

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

PROJECT LOCATION: 22 Lakeview Ave., Reading, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
TP-01	15K0672-01	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8270D	
TP-02	15K0672-02	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8270D	
TP-03	15K0672-03	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8270D	
TP-04	15K0672-04	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8100 Modified	
				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.

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

SW-846 8082A

Qualifications:

O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

15K0672-01[TP-01], 15K0672-02[TP-02], 15K0672-03[TP-03]

SW-846 8100 Modified

Qualifications:

MS-22

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

Analyte & Samples(s) Qualified:

TPH (C9-C36)

B135792-MS1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

15K0672-01[TP-01], B135792-MS1, B135792-MSD1

SW-846 8270D

Qualifications:

MS-09

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol

15K0672-02[TP-02], B135799-MS1, B135799-MSD1

S-07

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

Analyte & Samples(s) Qualified:

p-Terphenyl-d14

15K0672-04[TP-04]

V-04

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:

2,4-Dinitrophenol

15K0672-01[TP-01], 15K0672-02[TP-02], 15K0672-03[TP-03], 15K0672-04[TP-04], B135799-MS1, B135799-MSD1

V-05

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

Analyte & Samples(s) Qualified:

2-Methylphenol

B135799-BLK1, B135799-BS1, B135799-BSD1

Aniline

B135799-BLK1, B135799-BS1, B135799-BSD1

Bis(2-chloroisopropyl)ether

B135799-BLK1, B135799-BS1, B135799-BSD1

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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.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
B135799-MS1, B135799-MSD1

Butylbenzylphthalate
B135799-MS1, B135799-MSD1

Di-n-octylphthalate
B135799-MS1, B135799-MSD1

Pentachlorophenol
B135799-MS1, B135799-MSD1

V-20

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol
15K0672-01[TP-01], 15K0672-02[TP-02], 15K0672-03[TP-03], 15K0672-04[TP-04]

Butylbenzylphthalate
15K0672-01[TP-01], 15K0672-02[TP-02], 15K0672-03[TP-03], 15K0672-04[TP-04]

Di-n-octylphthalate
15K0672-01[TP-01], 15K0672-02[TP-02], 15K0672-03[TP-03], 15K0672-04[TP-04]

Pentachlorophenol
15K0672-01[TP-01], 15K0672-02[TP-02], 15K0672-03[TP-03], 15K0672-04[TP-04]

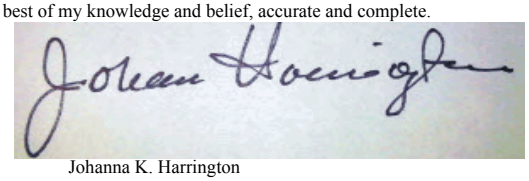
SW-846 8100 Modified

TPH (C9-C36) is quantitated against a calibration made with a diesel standard.

SW-846 8270D

Laboratory control sample recoveries for required MCP Data Enhancement 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for “difficult analytes” listed below and/or otherwise listed in this narrative. Difficult analytes limits are 15 and 140%: 2,4-dinitrophenol, 4-chloroaniline, 4-nitrophenol, and phenol.

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.



Johanna K. Harrington
Manager, Laboratory Reporting

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

Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-01 Sampled: 11/16/2015 08:10

Sample ID: 15K0672-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 15:13	BGL
4-Chloroaniline	ND	0.69	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2,4-Dinitrophenol	ND	0.69	mg/Kg dry	1	V-04, V-20	SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 15:13	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-01 Sampled: 11/16/2015 08:10

Sample ID: 15K0672-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
4-Nitrophenol	ND	0.69	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
Pyrene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:13	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	80.3	30-130		11/19/15 15:13
Phenol-d6	82.1	30-130		11/19/15 15:13
Nitrobenzene-d5	83.7	30-130		11/19/15 15:13
2-Fluorobiphenyl	90.2	30-130		11/19/15 15:13
2,4,6-Tribromophenol	84.6	30-130		11/19/15 15:13
p-Terphenyl-d14	119	30-130		11/19/15 15:13

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-01 Sampled: 11/16/2015 08:10

Sample ID: 15K0672-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/19/15 23:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.5	30-150		11/19/15 23:46
Decachlorobiphenyl [2]	58.3	30-150		11/19/15 23:46
Tetrachloro-m-xylene [1]	60.3	30-150		11/19/15 23:46
Tetrachloro-m-xylene [2]	64.5	30-150		11/19/15 23:46

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-01 Sampled: 11/16/2015 08:10

Sample ID: 15K0672-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	230	170	mg/Kg dry	20		SW-846 8100 Modified	11/18/15	11/21/15 3:19	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	*	40-140	S-01			11/21/15 3:19	

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-01 Sampled: 11/16/2015 08:10

Sample ID: 15K0672-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	11/17/15	11/18/15 10:12	MRL

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-02 Sampled: 11/16/2015 08:20

Sample ID: 15K0672-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Butylbenzylphthalate	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 15:39	BGL
4-Chloroaniline	ND	0.75	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Dimethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1	MS-09, V-04, V-20	SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Di-n-octylphthalate	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 15:39	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL

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

Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-02 Sampled: 11/16/2015 08:20

Sample ID: 15K0672-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
4-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
Pyrene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 15:39	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	76.1	30-130		11/19/15 15:39
Phenol-d6	81.8	30-130		11/19/15 15:39
Nitrobenzene-d5	84.0	30-130		11/19/15 15:39
2-Fluorobiphenyl	94.4	30-130		11/19/15 15:39
2,4,6-Tribromophenol	92.0	30-130		11/19/15 15:39
p-Terphenyl-d14	119	30-130		11/19/15 15:39

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

Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-02 Sampled: 11/16/2015 08:20

Sample ID: 15K0672-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 10:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.7	30-150		11/20/15 10:54
Decachlorobiphenyl [2]	73.4	30-150		11/20/15 10:54
Tetrachloro-m-xylene [1]	67.4	30-150		11/20/15 10:54
Tetrachloro-m-xylene [2]	71.6	30-150		11/20/15 10:54

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-02 Sampled: 11/16/2015 08:20

Sample ID: 15K0672-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	150	47	mg/Kg dry	5		SW-846 8100 Modified	11/18/15	11/21/15 4:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	77.7	40-140				11/21/15 4:12	

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-02 Sampled: 11/16/2015 08:20

Sample ID: 15K0672-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.5		% Wt	1		SM 2540G	11/17/15	11/18/15 10:12	MRL

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-03 Sampled: 11/16/2015 08:30

Sample ID: 15K0672-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Butylbenzylphthalate	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 16:04	BGL
4-Chloroaniline	ND	0.70	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Dimethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2,4-Dinitrophenol	ND	0.70	mg/Kg dry	1	V-04, V-20	SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Di-n-octylphthalate	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 16:04	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-03 Sampled: 11/16/2015 08:30

Sample ID: 15K0672-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
4-Nitrophenol	ND	0.70	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
Pyrene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:04	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	77.3	30-130		11/19/15 16:04
Phenol-d6	86.1	30-130		11/19/15 16:04
Nitrobenzene-d5	86.5	30-130		11/19/15 16:04
2-Fluorobiphenyl	95.9	30-130		11/19/15 16:04
2,4,6-Tribromophenol	97.7	30-130		11/19/15 16:04
p-Terphenyl-d14	125	30-130		11/19/15 16:04

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-03 Sampled: 11/16/2015 08:30

Sample ID: 15K0672-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.1	30-150		11/20/15 11:07
Decachlorobiphenyl [2]	94.8	30-150		11/20/15 11:07
Tetrachloro-m-xylene [1]	81.6	30-150		11/20/15 11:07
Tetrachloro-m-xylene [2]	87.7	30-150		11/20/15 11:07

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-03 Sampled: 11/16/2015 08:30

Sample ID: 15K0672-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	57	8.9	mg/Kg dry	1		SW-846 8100 Modified	11/18/15	11/21/15 14:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	67.3	40-140				11/21/15 14:57	

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-03 Sampled: 11/16/2015 08:30

Sample ID: 15K0672-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	11/17/15	11/18/15 10:12	MRL

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-04 Sampled: 11/16/2015 08:40

Sample ID: 15K0672-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Butylbenzylphthalate	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 16:30	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Dimethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	V-04, V-20	SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Di-n-octylphthalate	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 16:30	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL

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

Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-04 Sampled: 11/16/2015 08:40

Sample ID: 15K0672-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
Pyrene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	11/18/15	11/19/15 16:30	BGL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
2-Fluorophenol	79.9		30-130		11/19/15 16:30
Phenol-d6	88.0		30-130		11/19/15 16:30
Nitrobenzene-d5	86.0		30-130		11/19/15 16:30
2-Fluorobiphenyl	102		30-130		11/19/15 16:30
2,4,6-Tribromophenol	102		30-130		11/19/15 16:30
p-Terphenyl-d14	**132**	*	30-130	S-07	11/19/15 16:30

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

Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-04 Sampled: 11/16/2015 08:40

Sample ID: 15K0672-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB
Aroclor-1260 [2]	0.17	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	11/18/15	11/20/15 11:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.1	30-150		11/20/15 11:19
Decachlorobiphenyl [2]	97.1	30-150		11/20/15 11:19
Tetrachloro-m-xylene [1]	89.5	30-150		11/20/15 11:19
Tetrachloro-m-xylene [2]	96.2	30-150		11/20/15 11:19

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-04 Sampled: 11/16/2015 08:40

Sample ID: 15K0672-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH (C9-C36)	180	45	mg/Kg dry	5		SW-846 8100 Modified	11/18/15	11/21/15 4:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual				
o-Terphenyl	71.5	40-140				11/21/15 4:29	

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Project Location: 22 Lakeview Ave., Reading, MA Sample Description: Work Order: 15K0672

Date Received: 11/16/2015

Field Sample #: TP-04 Sampled: 11/16/2015 08:40

Sample ID: 15K0672-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	11/17/15	11/18/15 10:12	MRL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
15K0672-01 [TP-01]	B135684	11/17/15
15K0672-02 [TP-02]	B135684	11/17/15
15K0672-03 [TP-03]	B135684	11/17/15
15K0672-04 [TP-04]	B135684	11/17/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15K0672-01 [TP-01]	B135707	10.0	10.0	11/18/15
15K0672-02 [TP-02]	B135707	10.0	10.0	11/18/15
15K0672-03 [TP-03]	B135707	10.0	10.0	11/18/15
15K0672-04 [TP-04]	B135707	10.0	10.0	11/18/15

Prep Method: SW-846 3546-SW-846 8100 Modified

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15K0672-01 [TP-01]	B135792	30.1	1.00	11/18/15
15K0672-02 [TP-02]	B135792	30.4	1.00	11/18/15
15K0672-03 [TP-03]	B135792	30.1	1.00	11/18/15
15K0672-04 [TP-04]	B135792	30.2	1.00	11/18/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15K0672-01 [TP-01]	B135799	30.2	1.00	11/18/15
15K0672-02 [TP-02]	B135799	30.3	1.00	11/18/15
15K0672-03 [TP-03]	B135799	30.2	1.00	11/18/15
15K0672-04 [TP-04]	B135799	30.3	1.00	11/18/15

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B135799 - SW-846 3546										
Blank (B135799-BLK1)				Prepared: 11/18/15 Analyzed: 11/19/15						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Acetophenone	ND	0.34	mg/Kg wet							
Aniline	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							
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							
4-Chloroaniline	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	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							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
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							
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							V-05
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							
Pentachlorophenol	ND	0.34	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B135799 - SW-846 3546											
Blank (B135799-BLK1)				Prepared: 11/18/15 Analyzed: 11/19/15							
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet								
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet								
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet								
Surrogate: 2-Fluorophenol	*5.84*		mg/Kg wet	6.67		87.6	30-130				
Surrogate: Phenol-d6	*5.70*		mg/Kg wet	6.67		85.5	30-130				
Surrogate: Nitrobenzene-d5	*2.60*		mg/Kg wet	3.33		78.1	30-130				
Surrogate: 2-Fluorobiphenyl	*3.19*		mg/Kg wet	3.33		95.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.79*		mg/Kg wet	6.67		102	30-130				
Surrogate: p-Terphenyl-d14	*3.29*		mg/Kg wet	3.33		98.7	30-130				
LCS (B135799-BS1)				Prepared: 11/18/15 Analyzed: 11/19/15							
Acenaphthene	1.44	0.17	mg/Kg wet	1.67		86.2	40-140				
Acenaphthylene	1.59	0.17	mg/Kg wet	1.67		95.2	40-140				
Acetophenone	1.38	0.34	mg/Kg wet	1.67		83.1	40-140				
Aniline	1.03	0.34	mg/Kg wet	1.67		61.9	40-140			V-05	
Anthracene	1.68	0.17	mg/Kg wet	1.67		101	40-140				
Benzo(a)anthracene	1.67	0.17	mg/Kg wet	1.67		100	40-140				
Benzo(a)pyrene	1.68	0.17	mg/Kg wet	1.67		101	40-140				
Benzo(b)fluoranthene	1.62	0.17	mg/Kg wet	1.67		97.4	40-140				
Benzo(g,h,i)perylene	1.84	0.17	mg/Kg wet	1.67		110	40-140				
Benzo(k)fluoranthene	1.65	0.17	mg/Kg wet	1.67		98.8	40-140				
Bis(2-chloroethoxy)methane	1.58	0.34	mg/Kg wet	1.67		94.5	40-140				
Bis(2-chloroethyl)ether	1.57	0.34	mg/Kg wet	1.67		94.5	40-140				
Bis(2-chloroisopropyl)ether	1.20	0.34	mg/Kg wet	1.67		72.1	40-140			V-05	
Bis(2-Ethylhexyl)phthalate	1.56	0.34	mg/Kg wet	1.67		93.6	40-140				
4-Bromophenylphenylether	1.98	0.34	mg/Kg wet	1.67		119	40-140				
Butylbenzylphthalate	1.60	0.34	mg/Kg wet	1.67		96.3	40-140				
4-Chloroaniline	0.797	0.66	mg/Kg wet	1.67		47.8	15-140				†
2-Chloronaphthalene	1.48	0.34	mg/Kg wet	1.67		88.7	40-140				
2-Chlorophenol	1.59	0.34	mg/Kg wet	1.67		95.2	30-130				
Chrysene	1.62	0.17	mg/Kg wet	1.67		96.9	40-140				
Dibenz(a,h)anthracene	1.74	0.17	mg/Kg wet	1.67		105	40-140				
Dibenzofuran	1.70	0.34	mg/Kg wet	1.67		102	40-140				
Di-n-butylphthalate	1.65	0.34	mg/Kg wet	1.67		99.0	40-140				
1,2-Dichlorobenzene	1.49	0.34	mg/Kg wet	1.67		89.4	40-140				
1,3-Dichlorobenzene	1.45	0.34	mg/Kg wet	1.67		87.2	40-140				
1,4-Dichlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.2	40-140				
3,3-Dichlorobenzidine	1.12	0.17	mg/Kg wet	1.67		67.4	40-140				
2,4-Dichlorophenol	1.72	0.34	mg/Kg wet	1.67		103	30-130				
Diethylphthalate	1.70	0.34	mg/Kg wet	1.67		102	40-140				
2,4-Dimethylphenol	1.64	0.34	mg/Kg wet	1.67		98.2	30-130				
Dimethylphthalate	1.71	0.34	mg/Kg wet	1.67		103	40-140				
2,4-Dinitrophenol	0.306	0.66	mg/Kg wet	1.67		18.4	15-140				†
2,4-Dinitrotoluene	1.62	0.34	mg/Kg wet	1.67		97.1	40-140				
2,6-Dinitrotoluene	1.68	0.34	mg/Kg wet	1.67		101	40-140				
Di-n-octylphthalate	1.46	0.34	mg/Kg wet	1.67		87.4	40-140				
1,2-Diphenylhydrazine (as Azobenzene)	1.48	0.34	mg/Kg wet	1.67		88.8	40-140				
Fluoranthene	1.68	0.17	mg/Kg wet	1.67		101	40-140				
Fluorene	1.67	0.17	mg/Kg wet	1.67		99.9	40-140				
Hexachlorobenzene	1.88	0.34	mg/Kg wet	1.67		113	40-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B135799 - SW-846 3546										
LCS (B135799-BS1)				Prepared: 11/18/15 Analyzed: 11/19/15						
Hexachlorobutadiene	1.68	0.34	mg/Kg wet	1.67		101	40-140			
Hexachloroethane	1.47	0.34	mg/Kg wet	1.67		87.9	40-140			
Indeno(1,2,3-cd)pyrene	1.78	0.17	mg/Kg wet	1.67		107	40-140			
Isophorone	1.56	0.34	mg/Kg wet	1.67		93.6	40-140			
2-Methylnaphthalene	1.66	0.17	mg/Kg wet	1.67		99.7	40-140			
2-Methylphenol	1.36	0.34	mg/Kg wet	1.67		81.3	30-130			V-05
3/4-Methylphenol	1.52	0.34	mg/Kg wet	1.67		91.5	30-130			
Naphthalene	1.54	0.17	mg/Kg wet	1.67		92.5	40-140			
Nitrobenzene	1.43	0.34	mg/Kg wet	1.67		86.0	40-140			
2-Nitrophenol	1.61	0.34	mg/Kg wet	1.67		96.8	30-130			
4-Nitrophenol	1.60	0.66	mg/Kg wet	1.67		96.3	15-140			†
Pentachlorophenol	1.16	0.34	mg/Kg wet	1.67		69.7	30-130			
Phenanthrene	1.69	0.17	mg/Kg wet	1.67		101	40-140			
Phenol	1.52	0.34	mg/Kg wet	1.67		91.0	15-140			†
Pyrene	1.70	0.17	mg/Kg wet	1.67		102	40-140			
1,2,4-Trichlorobenzene	1.68	0.34	mg/Kg wet	1.67		101	40-140			
2,4,5-Trichlorophenol	1.67	0.34	mg/Kg wet	1.67		100	30-130			
2,4,6-Trichlorophenol	1.76	0.34	mg/Kg wet	1.67		105	30-130			
Surrogate: 2-Fluorophenol	*6.60*		mg/Kg wet	6.67		99.0	30-130			
Surrogate: Phenol-d6	*6.51*		mg/Kg wet	6.67		97.6	30-130			
Surrogate: Nitrobenzene-d5	*3.04*		mg/Kg wet	3.33		91.1	30-130			
Surrogate: 2-Fluorobiphenyl	*3.61*		mg/Kg wet	3.33		108	30-130			
Surrogate: 2,4,6-Tribromophenol	*8.27*		mg/Kg wet	6.67		124	30-130			
Surrogate: p-Terphenyl-d14	*3.88*		mg/Kg wet	3.33		117	30-130			
LCS Dup (B135799-BSD1)				Prepared: 11/18/15 Analyzed: 11/19/15						
Acenaphthene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	7.41	30	
Acenaphthylene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140	8.57	30	
Acetophenone	1.16	0.34	mg/Kg wet	1.67		69.7	40-140	17.5	30	
Aniline	0.866	0.34	mg/Kg wet	1.67		51.9	40-140	17.5	30	V-05
Anthracene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140	12.8	30	
Benzo(a)anthracene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140	8.68	30	
Benzo(a)pyrene	1.48	0.17	mg/Kg wet	1.67		88.7	40-140	12.9	30	
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140	11.8	30	
Benzo(g,h,i)perylene	1.62	0.17	mg/Kg wet	1.67		97.3	40-140	12.6	30	
Benzo(k)fluoranthene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	13.0	30	
Bis(2-chloroethoxy)methane	1.40	0.34	mg/Kg wet	1.67		84.0	40-140	11.7	30	
Bis(2-chloroethyl)ether	1.31	0.34	mg/Kg wet	1.67		78.9	40-140	18.0	30	
Bis(2-chloroisopropyl)ether	1.03	0.34	mg/Kg wet	1.67		61.9	40-140	15.2	30	V-05
Bis(2-Ethylhexyl)phthalate	1.43	0.34	mg/Kg wet	1.67		85.9	40-140	8.56	30	
4-Bromophenylphenylether	1.66	0.34	mg/Kg wet	1.67		99.4	40-140	17.9	30	
Butylbenzylphthalate	1.43	0.34	mg/Kg wet	1.67		85.7	40-140	11.6	30	
4-Chloroaniline	0.723	0.66	mg/Kg wet	1.67		43.4	15-140	9.78	30	†
2-Chloronaphthalene	1.33	0.34	mg/Kg wet	1.67		79.7	40-140	10.7	30	
2-Chlorophenol	1.30	0.34	mg/Kg wet	1.67		78.0	30-130	19.8	30	
Chrysene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140	9.22	30	
Dibenz(a,h)anthracene	1.57	0.17	mg/Kg wet	1.67		94.3	40-140	10.3	30	
Dibenzofuran	1.52	0.34	mg/Kg wet	1.67		91.0	40-140	11.2	30	
Di-n-butylphthalate	1.44	0.34	mg/Kg wet	1.67		86.4	40-140	13.5	30	
1,2-Dichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.3	40-140	21.1	30	
1,3-Dichlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.8	40-140	22.1	30	
1,4-Dichlorobenzene	1.14	0.34	mg/Kg wet	1.67		68.6	40-140	22.7	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B135799 - SW-846 3546											
LCS Dup (B135799-BSD1)				Prepared: 11/18/15 Analyzed: 11/19/15							
3,3-Dichlorobenzidine	1.01	0.17	mg/Kg wet	1.67		60.3	40-140	11.1	30		
2,4-Dichlorophenol	1.46	0.34	mg/Kg wet	1.67		87.6	30-130	16.3	30		
Diethylphthalate	1.52	0.34	mg/Kg wet	1.67		91.0	40-140	11.5	30		
2,4-Dimethylphenol	1.45	0.34	mg/Kg wet	1.67		86.8	30-130	12.3	30		
Dimethylphthalate	1.53	0.34	mg/Kg wet	1.67		91.9	40-140	11.3	30		
2,4-Dinitrophenol	0.293	0.66	mg/Kg wet	1.67		17.6	15-140	4.34	30		†
2,4-Dinitrotoluene	1.50	0.34	mg/Kg wet	1.67		89.8	40-140	7.75	30		
2,6-Dinitrotoluene	1.57	0.34	mg/Kg wet	1.67		94.0	40-140	7.30	30		
Di-n-octylphthalate	1.32	0.34	mg/Kg wet	1.67		78.9	40-140	10.2	30		
1,2-Diphenylhydrazine (as Azobenzene)	1.35	0.34	mg/Kg wet	1.67		81.2	40-140	8.96	30		
Fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.6	40-140	12.0	30		
Fluorene	1.48	0.17	mg/Kg wet	1.67		89.0	40-140	11.5	30		
Hexachlorobenzene	1.64	0.34	mg/Kg wet	1.67		98.3	40-140	13.9	30		
Hexachlorobutadiene	1.40	0.34	mg/Kg wet	1.67		84.1	40-140	17.8	30		
Hexachloroethane	1.17	0.34	mg/Kg wet	1.67		70.1	40-140	22.6	30		
Indeno(1,2,3-cd)pyrene	1.60	0.17	mg/Kg wet	1.67		95.8	40-140	10.7	30		
Isophorone	1.36	0.34	mg/Kg wet	1.67		81.5	40-140	13.8	30		
2-Methylnaphthalene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	17.3	30		
2-Methylphenol	1.13	0.34	mg/Kg wet	1.67		68.0	30-130	17.8	30	V-05	
3/4-Methylphenol	1.31	0.34	mg/Kg wet	1.67		78.3	30-130	15.5	30		
Naphthalene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140	18.1	30		
Nitrobenzene	1.24	0.34	mg/Kg wet	1.67		74.6	40-140	14.2	30		
2-Nitrophenol	1.37	0.34	mg/Kg wet	1.67		81.9	30-130	16.6	30		
4-Nitrophenol	1.50	0.66	mg/Kg wet	1.67		90.3	15-140	6.45	30		†
Pentachlorophenol	0.984	0.34	mg/Kg wet	1.67		59.0	30-130	16.5	30		
Phenanthrene	1.50	0.17	mg/Kg wet	1.67		90.2	40-140	11.7	30		
Phenol	1.28	0.34	mg/Kg wet	1.67		76.8	15-140	17.0	30		†
Pyrene	1.52	0.17	mg/Kg wet	1.67		91.2	40-140	11.4	30		
1,2,4-Trichlorobenzene	1.36	0.34	mg/Kg wet	1.67		81.8	40-140	20.8	30		
2,4,5-Trichlorophenol	1.51	0.34	mg/Kg wet	1.67		90.7	30-130	10.2	30		
2,4,6-Trichlorophenol	1.58	0.34	mg/Kg wet	1.67		94.6	30-130	10.9	30		
Surrogate: 2-Fluorophenol	*5.36*		mg/Kg wet	6.67		80.4	30-130				
Surrogate: Phenol-d6	*5.50*		mg/Kg wet	6.67		82.5	30-130				
Surrogate: Nitrobenzene-d5	*2.63*		mg/Kg wet	3.33		78.9	30-130				
Surrogate: 2-Fluorobiphenyl	*3.25*		mg/Kg wet	3.33		97.6	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.30*		mg/Kg wet	6.67		110	30-130				
Surrogate: p-Terphenyl-d14	*3.42*		mg/Kg wet	3.33		102	30-130				
Matrix Spike (B135799-MS1)		**Source: 15K0672-02**		Prepared: 11/18/15 Analyzed: 11/19/15							
Acenaphthene	1.50	0.19	mg/Kg dry	1.89	ND	79.0	40-140				
Acenaphthylene	1.51	0.19	mg/Kg dry	1.89	ND	79.8	40-140				
Acetophenone	1.30	0.39	mg/Kg dry	1.89	ND	68.7	40-140				
Aniline	0.784	0.39	mg/Kg dry	1.89	ND	41.5	40-140				
Anthracene	1.59	0.19	mg/Kg dry	1.89	ND	83.8	40-140				
Benzo(a)anthracene	1.68	0.19	mg/Kg dry	1.89	0.0947	83.5	40-140				
Benzo(a)pyrene	1.66	0.19	mg/Kg dry	1.89	0.103	82.1	40-140				
Benzo(b)fluoranthene	1.67	0.19	mg/Kg dry	1.89	0.125	81.5	40-140				
Benzo(g,h,i)perylene	1.45	0.19	mg/Kg dry	1.89	ND	76.4	40-140				
Benzo(k)fluoranthene	1.63	0.19	mg/Kg dry	1.89	ND	86.4	40-140				
Bis(2-chloroethoxy)methane	1.56	0.39	mg/Kg dry	1.89	ND	82.3	40-140				
Bis(2-chloroethyl)ether	1.39	0.39	mg/Kg dry	1.89	ND	73.5	40-140				
Bis(2-chloroisopropyl)ether	1.43	0.39	mg/Kg dry	1.89	ND	75.4	40-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B135799 - SW-846 3546											
Matrix Spike (B135799-MS1)	**Source: 15K0672-02**			Prepared: 11/18/15 Analyzed: 11/19/15							
Bis(2-Ethylhexyl)phthalate	2.19	0.39	mg/Kg dry	1.89	0.218	104		40-140			
4-Bromophenylphenylether	1.69	0.39	mg/Kg dry	1.89	ND	89.2		40-140			
Butylbenzylphthalate	2.19	0.39	mg/Kg dry	1.89	ND	116		40-140			V-06
4-Chloroaniline	1.01	0.75	mg/Kg dry	1.89	ND	53.2		40-140			
2-Chloronaphthalene	1.43	0.39	mg/Kg dry	1.89	ND	75.7		40-140			
2-Chlorophenol	1.35	0.39	mg/Kg dry	1.89	ND	71.5		30-130			
Chrysene	1.63	0.19	mg/Kg dry	1.89	0.113	80.2		40-140			
Dibenz(a,h)anthracene	1.39	0.19	mg/Kg dry	1.89	ND	73.4		40-140			
Dibenzofuran	1.55	0.39	mg/Kg dry	1.89	ND	81.9		40-140			
Di-n-butylphthalate	1.66	0.39	mg/Kg dry	1.89	ND	87.5		40-140			
1,2-Dichlorobenzene	1.22	0.39	mg/Kg dry	1.89	ND	64.5		40-140			
1,3-Dichlorobenzene	1.14	0.39	mg/Kg dry	1.89	ND	60.3		40-140			
1,4-Dichlorobenzene	1.16	0.39	mg/Kg dry	1.89	ND	61.5		40-140			
3,3-Dichlorobenzidine	1.17	0.19	mg/Kg dry	1.89	ND	61.9		40-140			
2,4-Dichlorophenol	1.60	0.39	mg/Kg dry	1.89	ND	84.4		30-130			
Diethylphthalate	1.68	0.39	mg/Kg dry	1.89	ND	88.7		40-140			
2,4-Dimethylphenol	1.54	0.39	mg/Kg dry	1.89	ND	81.2		30-130			
Dimethylphthalate	1.62	0.39	mg/Kg dry	1.89	ND	85.5		40-140			
2,4-Dinitrophenol	0.195	0.75	mg/Kg dry	1.89	ND	**10.3**	*	30-130			MS-09, V-04, V-06
2,4-Dinitrotoluene	1.50	0.39	mg/Kg dry	1.89	ND	79.1		40-140			
2,6-Dinitrotoluene	1.49	0.39	mg/Kg dry	1.89	ND	78.6		40-140			
Di-n-octylphthalate	2.36	0.39	mg/Kg dry	1.89	ND	125		40-140			V-06
1,2-Diphenylhydrazine (as Azobenzene)	1.68	0.39	mg/Kg dry	1.89	ND	88.7		40-140			
Fluoranthene	1.50	0.19	mg/Kg dry	1.89	0.159	71.1		40-140			
Fluorene	1.59	0.19	mg/Kg dry	1.89	ND	83.9		40-140			
Hexachlorobenzene	1.60	0.39	mg/Kg dry	1.89	ND	84.8		40-140			
Hexachlorobutadiene	1.45	0.39	mg/Kg dry	1.89	ND	76.6		40-140			
Hexachloroethane	1.01	0.39	mg/Kg dry	1.89	ND	53.6		40-140			
Indeno(1,2,3-cd)pyrene	1.45	0.19	mg/Kg dry	1.89	ND	76.6		40-140			
Isophorone	1.67	0.39	mg/Kg dry	1.89	ND	88.3		40-140			
2-Methylnaphthalene	1.59	0.19	mg/Kg dry	1.89	ND	84.1		40-140			
2-Methylphenol	1.42	0.39	mg/Kg dry	1.89	ND	74.8		30-130			
3/4-Methylphenol	1.46	0.39	mg/Kg dry	1.89	ND	77.3		30-130			
Naphthalene	1.41	0.19	mg/Kg dry	1.89	ND	74.6		40-140			
Nitrobenzene	1.47	0.39	mg/Kg dry	1.89	ND	77.5		40-140			
2-Nitrophenol	1.18	0.39	mg/Kg dry	1.89	ND	62.3		30-130			
4-Nitrophenol	1.87	0.75	mg/Kg dry	1.89	ND	99.0		30-130			
Pentachlorophenol	1.76	0.39	mg/Kg dry	1.89	ND	93.0		30-130			V-06
Phenanthrene	1.67	0.19	mg/Kg dry	1.89	0.104	82.7		40-140			
Phenol	1.43	0.39	mg/Kg dry	1.89	ND	75.5		30-130			
Pyrene	2.16	0.19	mg/Kg dry	1.89	0.215	103		40-140			
1,2,4-Trichlorobenzene	1.47	0.39	mg/Kg dry	1.89	ND	77.7		40-140			
2,4,5-Trichlorophenol	1.52	0.39	mg/Kg dry	1.89	ND	80.1		30-130			
2,4,6-Trichlorophenol	1.58	0.39	mg/Kg dry	1.89	ND	83.5		30-130			
Surrogate: 2-Fluorophenol	*5.49*		mg/Kg dry	7.57		72.6		30-130			
Surrogate: Phenol-d6	*6.02*		mg/Kg dry	7.57		79.5		30-130			
Surrogate: Nitrobenzene-d5	*3.08*		mg/Kg dry	3.78		81.3		30-130			
Surrogate: 2-Fluorobiphenyl	*3.30*		mg/Kg dry	3.78		87.3		30-130			
Surrogate: 2,4,6-Tribromophenol	*6.95*		mg/Kg dry	7.57		91.8		30-130			
Surrogate: p-Terphenyl-d14	*4.47*		mg/Kg dry	3.78		118		30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B135799 - SW-846 3546											
Matrix Spike Dup (B135799-MSD1)		**Source: 15K0672-02**		Prepared: 11/18/15 Analyzed: 11/19/15							
Acenaphthene	1.54	0.19	mg/Kg dry	1.89	ND	81.6		40-140	3.21	30	
Acenaphthylene	1.58	0.19	mg/Kg dry	1.89	ND	83.3		40-140	4.24	30	
Acetophenone	1.37	0.39	mg/Kg dry	1.89	ND	72.5		40-140	5.38	30	
Aniline	0.773	0.39	mg/Kg dry	1.89	ND	40.9		40-140	1.46	30	
Anthracene	1.61	0.19	mg/Kg dry	1.89	ND	85.3		40-140	1.80	30	
Benzo(a)anthracene	1.78	0.19	mg/Kg dry	1.89	0.0947	88.9		40-140	5.83	30	
Benzo(a)pyrene	1.76	0.19	mg/Kg dry	1.89	0.103	87.5		40-140	5.96	30	
Benzo(b)fluoranthene	1.75	0.19	mg/Kg dry	1.89	0.125	86.0		40-140	4.98	30	
Benzo(g,h,i)perylene	1.44	0.19	mg/Kg dry	1.89	ND	75.9		40-140	0.683	30	
Benzo(k)fluoranthene	1.74	0.19	mg/Kg dry	1.89	ND	92.0		40-140	6.26	30	
Bis(2-chloroethoxy)methane	1.68	0.39	mg/Kg dry	1.89	ND	88.9		40-140	7.66	30	
Bis(2-chloroethyl)ether	1.42	0.39	mg/Kg dry	1.89	ND	75.2		40-140	2.29	30	
Bis(2-chloroisopropyl)ether	1.47	0.39	mg/Kg dry	1.89	ND	77.8		40-140	3.11	30	
Bis(2-Ethylhexyl)phthalate	2.42	0.39	mg/Kg dry	1.89	0.218	116		40-140	9.96	30	
4-Bromophenylphenylether	1.73	0.39	mg/Kg dry	1.89	ND	91.3		40-140	2.37	30	
Butylbenzylphthalate	2.23	0.39	mg/Kg dry	1.89	ND	118		40-140	2.09	30	V-06
4-Chloroaniline	0.987	0.75	mg/Kg dry	1.89	ND	52.2		40-140	1.97	30	
2-Chloronaphthalene	1.34	0.39	mg/Kg dry	1.89	ND	70.9		40-140	6.49	30	
2-Chlorophenol	1.42	0.39	mg/Kg dry	1.89	ND	74.9		30-130	4.70	30	
Chrysene	1.80	0.19	mg/Kg dry	1.89	0.113	89.1		40-140	9.82	30	
Dibenz(a,h)anthracene	1.37	0.19	mg/Kg dry	1.89	ND	72.6		40-140	1.10	30	
Dibenzofuran	1.61	0.39	mg/Kg dry	1.89	ND	84.8		40-140	3.55	30	
Di-n-butylphthalate	1.65	0.39	mg/Kg dry	1.89	ND	87.2		40-140	0.366	30	
1,2-Dichlorobenzene	1.27	0.39	mg/Kg dry	1.89	ND	66.9		40-140	3.59	30	
1,3-Dichlorobenzene	1.16	0.39	mg/Kg dry	1.89	ND	61.5		40-140	1.97	30	
1,4-Dichlorobenzene	1.20	0.39	mg/Kg dry	1.89	ND	63.7		40-140	3.42	30	
3,3-Dichlorobenzidine	1.20	0.19	mg/Kg dry	1.89	ND	63.7		40-140	2.80	30	
2,4-Dichlorophenol	1.69	0.39	mg/Kg dry	1.89	ND	89.1		30-130	5.49	30	
Diethylphthalate	1.79	0.39	mg/Kg dry	1.89	ND	94.4		40-140	6.25	30	
2,4-Dimethylphenol	1.66	0.39	mg/Kg dry	1.89	ND	87.8		30-130	7.74	30	
Dimethylphthalate	1.73	0.39	mg/Kg dry	1.89	ND	91.2		40-140	6.48	30	
2,4-Dinitrophenol	0.377	0.75	mg/Kg dry	1.89	ND	**19.9**	*	30-130		30	MS-09, V-04, V-06
2,4-Dinitrotoluene	1.51	0.39	mg/Kg dry	1.89	ND	79.6		40-140	0.630	30	
2,6-Dinitrotoluene	1.61	0.39	mg/Kg dry	1.89	ND	84.9		40-140	7.70	30	
Di-n-octylphthalate	2.36	0.39	mg/Kg dry	1.89	ND	125		40-140	0.0963	30	V-06
1,2-Diphenylhydrazine (as Azobenzene)	1.80	0.39	mg/Kg dry	1.89	ND	95.0		40-140	6.93	30	
Fluoranthene	1.67	0.19	mg/Kg dry	1.89	0.159	80.1		40-140	10.8	30	
Fluorene	1.67	0.19	mg/Kg dry	1.89	ND	88.1		40-140	4.91	30	
Hexachlorobenzene	1.64	0.39	mg/Kg dry	1.89	ND	86.5		40-140	2.01	30	
Hexachlorobutadiene	1.61	0.39	mg/Kg dry	1.89	ND	85.0		40-140	10.4	30	
Hexachloroethane	1.12	0.39	mg/Kg dry	1.89	ND	59.0		40-140	9.55	30	
Indeno(1,2,3-cd)pyrene	1.47	0.19	mg/Kg dry	1.89	ND	77.5		40-140	1.17	30	
Isophorone	1.76	0.39	mg/Kg dry	1.89	ND	92.9		40-140	5.08	30	
2-Methylnaphthalene	1.64	0.19	mg/Kg dry	1.89	ND	86.9		40-140	3.27	30	
2-Methylphenol	1.42	0.39	mg/Kg dry	1.89	ND	75.2		30-130	0.560	30	
3/4-Methylphenol	1.55	0.39	mg/Kg dry	1.89	ND	81.7		30-130	5.54	30	
Naphthalene	1.50	0.19	mg/Kg dry	1.89	ND	79.4		40-140	6.23	30	
Nitrobenzene	1.58	0.39	mg/Kg dry	1.89	ND	83.3		40-140	7.19	30	
2-Nitrophenol	1.30	0.39	mg/Kg dry	1.89	ND	68.6		30-130	9.72	30	
4-Nitrophenol	2.06	0.75	mg/Kg dry	1.89	ND	109		30-130	9.51	30	
Pentachlorophenol	1.82	0.39	mg/Kg dry	1.89	ND	96.1		30-130	3.22	30	V-06
Phenanthrene	1.81	0.19	mg/Kg dry	1.89	0.104	90.0		40-140	7.99	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B135799 - SW-846 3546										
Matrix Spike Dup (B135799-MSD1)	**Source: 15K0672-02**			Prepared: 11/18/15 Analyzed: 11/19/15						
Phenol	1.44	0.39	mg/Kg dry	1.89	ND	76.1	30-130	0.818	30	
Pyrene	2.44	0.19	mg/Kg dry	1.89	0.215	118	40-140	12.2	30	
1,2,4-Trichlorobenzene	1.57	0.39	mg/Kg dry	1.89	ND	82.9	40-140	6.45	30	
2,4,5-Trichlorophenol	1.58	0.39	mg/Kg dry	1.89	ND	83.4	30-130	4.01	30	
2,4,6-Trichlorophenol	1.66	0.39	mg/Kg dry	1.89	ND	87.8	30-130	5.02	30	
Surrogate: 2-Fluorophenol	*5.46*		mg/Kg dry	7.57		72.1	30-130			
Surrogate: Phenol-d6	*5.98*		mg/Kg dry	7.57		79.0	30-130			
Surrogate: Nitrobenzene-d5	*3.31*		mg/Kg dry	3.78		87.4	30-130			
Surrogate: 2-Fluorobiphenyl	*3.49*		mg/Kg dry	3.78		92.2	30-130			
Surrogate: 2,4,6-Tribromophenol	*6.95*		mg/Kg dry	7.57		91.8	30-130			
Surrogate: p-Terphenyl-d14	*4.54*		mg/Kg dry	3.78		120	30-130			

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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 B135707 - SW-846 3546										
Blank (B135707-BLK1)				Prepared: 11/18/15 Analyzed: 11/19/15						
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	*0.156*		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.162*		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.156*		mg/Kg wet	0.200		77.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.3	30-150			
LCS (B135707-BS1)				Prepared: 11/18/15 Analyzed: 11/19/15						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.5	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.1	40-140			
Surrogate: Decachlorobiphenyl	*0.162*		mg/Kg wet	0.200		81.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.170*		mg/Kg wet	0.200		85.1	30-150			
LCS Dup (B135707-BSD1)				Prepared: 11/18/15 Analyzed: 11/19/15						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		82.6	40-140	2.71	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.0	40-140	4.27	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.1	40-140	1.18	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	0.660	30	
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg wet	0.200		84.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.151*		mg/Kg wet	0.200		75.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		80.8	30-150			

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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 B135707 - SW-846 3546										
Matrix Spike (B135707-MS1)	**Source: 15K0672-01**			Prepared: 11/18/15 Analyzed: 11/20/15						
Aroclor-1016	0.19	0.11	mg/Kg dry	0.211	ND	90.7	40-140			
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.211	ND	97.5	40-140			
Aroclor-1260	0.18	0.11	mg/Kg dry	0.211	ND	83.6	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.211	ND	88.0	40-140			
Surrogate: Decachlorobiphenyl	*0.144*		mg/Kg dry	0.211		68.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.159*		mg/Kg dry	0.211		75.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg dry	0.211		81.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.185*		mg/Kg dry	0.211		88.0	30-150			
Matrix Spike Dup (B135707-MSD1)	**Source: 15K0672-01**			Prepared: 11/18/15 Analyzed: 11/20/15						
Aroclor-1016	0.20	0.11	mg/Kg dry	0.211	ND	93.0	40-140	2.51	30	
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.211	ND	103	40-140	5.22	30	
Aroclor-1260	0.17	0.11	mg/Kg dry	0.211	ND	83.0	40-140	0.750	30	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.211	ND	90.0	40-140	2.23	30	
Surrogate: Decachlorobiphenyl	*0.147*		mg/Kg dry	0.211		69.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.164*		mg/Kg dry	0.211		77.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg dry	0.211		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg dry	0.211		92.7	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B135792 - SW-846 3546											
Blank (B135792-BLK1)				Prepared: 11/18/15 Analyzed: 11/19/15							
TPH (C9-C36)	ND	8.3	mg/Kg wet								
Surrogate: o-Terphenyl	*2.54*		mg/Kg wet	3.33		76.3		40-140			
LCS (B135792-BS1)				Prepared: 11/18/15 Analyzed: 11/19/15							
TPH (C9-C36)	25.3	8.3	mg/Kg wet	33.3		76.0		40-140			
Surrogate: o-Terphenyl	*2.68*		mg/Kg wet	3.33		80.3		40-140			
LCS Dup (B135792-BSD1)				Prepared: 11/18/15 Analyzed: 11/19/15							
TPH (C9-C36)	25.9	8.3	mg/Kg wet	33.3		77.7		40-140	2.21	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		82.0		40-140			
Matrix Spike (B135792-MS1)	**Source: 15K0672-01**			Prepared: 11/18/15 Analyzed: 11/21/15							
TPH (C9-C36)	285	170	mg/Kg dry	35.0	226	**169**	*	40-140			MS-22
Surrogate: o-Terphenyl	*0.00*		mg/Kg dry	3.50			*	40-140			S-01
Matrix Spike Dup (B135792-MSD1)	**Source: 15K0672-01**			Prepared: 11/18/15 Analyzed: 11/21/15							
TPH (C9-C36)	262	170	mg/Kg dry	35.0	226	102		40-140	8.49	30	
Surrogate: o-Terphenyl	*0.00*		mg/Kg dry	3.50			*	40-140			S-01

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B135684 - % Solids										
Duplicate (B135684-DUP1)	**Source: 15K0672-01**			Prepared: 11/17/15 Analyzed: 11/18/15						
% Solids	94.9		% Wt		94.9			0.00	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

TP-04

Lab Sample ID: 15K0672-04 Date(s) Analyzed: 11/20/2015 11/20/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	0.00	0.00	0.17	
	2	0.00	0.00	0.00	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B135707-BS1 Date(s) Analyzed: 11/19/2015 11/19/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.17	
	2	0.00	0.00	0.00	0.17	0
Aroclor-1260	1	0.00	0.00	0.00	0.17	
	2	0.00	0.00	0.00	0.17	1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B135707-BSD1 Date(s) Analyzed: 11/19/2015 11/19/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.17	
	2	0.00	0.00	0.00	0.16	3
Aroclor-1260	1	0.00	0.00	0.00	0.17	
	2	0.00	0.00	0.00	0.17	2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B135707-MS1 Date(s) Analyzed: 11/20/2015 11/20/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.19	
	2	0.00	0.00	0.00	0.21	9
Aroclor-1260	1	0.00	0.00	0.00	0.18	
	2	0.00	0.00	0.00	0.19	8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B135707-MSD1 Date(s) Analyzed: 11/20/2015 11/20/2015

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.20	
	2	0.00	0.00	0.00	0.22	12
Aroclor-1260	1	0.00	0.00	0.00	0.17	
	2	0.00	0.00	0.00	0.19	8

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-09	Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-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.
O-32	A dilution was performed as part of the standard analytical procedure.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
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-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-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.

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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	NY,NC
Aroclor-1262 [2C]	NY,NC
Aroclor-1268	NY,NC
Aroclor-1268 [2C]	NY,NC
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Acetophenone	NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
1,2-Diphenylhydrazine (as Azobenzene)	NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2015
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

CHAIN OF CUSTODY RECORD

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15K0672
Rev 04.05.12

Company Name: EBI Consulting
Address: 21 B Street
Burlington, MA 01803
Attention: Meghan Kelley
Project Location: 22 Lakeview Ave, Reading MA
Sampled By: Lauren Bell

Telephone: (781) 572-2468
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email:
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	# of Containers	** Preservation	***Container Code	TPH	SVOC	PCB
01	TP-01	11/16/15	0810	X		S					X	X	X
02	TP-02	↓	0820	X		S					X	X	X
03	TP-03		0830	X		S					X	X	X
04	TP-04		0840	X		S					X	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:

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:
Lauren Bell	11/16/15 10:00
Received by: (signature)	Date/Time:
[signature]	11/16/15 12:30
Relinquished by: (signature)	Date/Time:
[signature]	11/16/15 4:10
Received by: (signature)	Date/Time:
[signature] 4.6	11/16/15 16:10

Turnaround ††
☐ 7-Day
☐ 10-Day
☒ Other 5
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID # _____

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

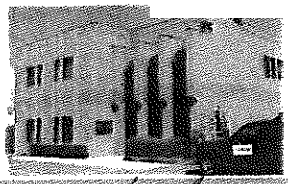
TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: EBI **RECEIVED BY:** JDI **DATE:** 11/16/15

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 4.6

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	4
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	
1 Liter Plastic			Plastic Bag / Ziploc	
500 mL Plastic			SOC Kit	
250 mL plastic			Non-ConTest Container	
40 mL Vial - type listed below			Perchlorate Kit	
Colisure / bacteria bottle			Flashpoint bottle	
Dissolved Oxygen bottle			Other glass jar	
Encore			Other	

Laboratory Comments:

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

Time and Date Frozen:

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

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

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

Doc #277 Rev. 4 August 2013 **Log-In Technician Initials:** ODL **Date/Time:** 11/16/R 1610