AECOM Environment

Submitted to:
MBTA
Ten Park Plaza
Boston, MA 01886

Prepared by:
AECOM
Chelmsford, MA
60133920.01
November 3, 2011

Phase IV Status Report #3
Readville Yard 5
Industrial Drive, Boston and Dedham, MA
RTN 3-2856

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Prepared By: Mark Newell, Environmental Scientist

Reviewed By: Elissa Brown, LSP

Reviewed By: Tim Markey, Section Manager

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1.0 Introduction

AECOM Environment (AECOM) has prepared this Phase IV Status Report #3 for the Readville Yard 5 Site (the Site) on behalf of the Massachusetts Bay Transportation Authority (MBTA). This report and attachments provide documentation of activities conducted between May 11, 2011 and September 30, 2011 for the MBTA Readville 5 Yard Site located on Industrial Drive in Boston (Readville) and Dedham, Massachusetts. A Site Locus Map and a Site Plan are respectively provided as Figure 1 and 2. A Site Excavation Plan is included as Figure 3. The original Bureau of Waste Site Cleanup (BWSC) Transmittal Form (BWSC108) is being submitted via eDEP. An unsigned copy of this transmittal form is included as Appendix A.

2.0 Background

On September 14, 2001, a Phase I - Initial Site Investigation (Phase I) Report was submitted to the Massachusetts Department of Environmental Protection (MassDEP). The Phase I investigation used the results of previous Site investigations conducted by HMM Associates, Inc. (HMM) and Rizzo Associates, Inc. (Rizzo) to support completion of a Numerical Ranking System (NRS) Scoresheet, a Tier IC Permit Application, and a Phase II Scope of Work (SOW). The Site was Tier Classified as Tier IC with MassDEP.

A Phase II investigation was performed at the Site by Weston & Sampson on behalf of the MBTA between July and October 2002 and included advancement of soil borings, excavation of test pits, monitoring well installation, collection of surficial soil samples, characterization of soil and debris piles, evaluation of groundwater flow, and collection of groundwater samples. A Method 3 risk characterization (RC) was performed to evaluate the potential risk to human health, safety, public welfare, and the environment posed by contaminants detected at the Site. The RC focused on the risk posed by soil because, based on the findings of the Phase II investigation, contaminants were not detected at or in excess of applicable regulatory thresholds in groundwater. The results of the RC indicated that further response actions to eliminate exposure to surface (0 to 6 inches) and subsurface (0 to 3 feet) soils were required to achieve a condition of “No Significant Risk” in all Areas under existing Site conditions for all potential Site uses except for the construction worker scenario. After the close of the public comment period on January 8, 2003, Weston & Sampson finalized the Draft Phase II Report and incorporated the MassDEP’s December 9, 2002 comments into the “Final Phase II Report”. The Final Phase II Report was submitted to the MassDEP and the information repositories on January 31, 2003. To accommodate the MassDEP’s additional comments on the Phase III, and to avoid confusion among the public, the MBTA responded to the MassDEP’s comments concerning the Final Phase II Report in the form of a Phase II Addendum – Response to DEP Comments on the Final Phase II Report (the “Phase II Addendum”). The Phase II Addendum was attached as Appendix F to the Final Phase III Report submitted to the MassDEP on April 30, 2003. The Phase III report was submitted to the MassDEP on April 30, 2003.

Levine Fricke Recon, Inc. (LFR) was retained by Readville Yards, LLC to prepare the Phase IV Remedy Implementation Plan (RIP) at the Site for proposed residential use in the western portion and an industrial program use consistent with current zoning, but undefined in the eastern portion. LFR performed additional soil sampling in anticipation of proposed residential use of the western portion of the Site. These results were reported in the Phase IV RIP prepared by LFR on behalf of Readville Yards, LLC, dated July 18, 2006,

On August 7, 2007, MassDEP issued a written denial of the LFR Phase IV RIP. In a November 8, 2007 letter to the MassDEP, the MBTA provided a Draft SOW that detailed the tasks to be performed to finalize a Revised Phase IV RIP at the Site.

The MassDEP provided comments to the MBTA on the above Draft SOW for the final Phase IV RIP in a letter dated December 4, 2007. In these comments, the MassDEP indicated that some of the work required for the Revised Phase IV RIP was more appropriately categorized as Phase II and/or Phase III activities. As such, the MassDEP stated that the Revised Phase IV RIP should include a supplement that updated the previously submitted Phase II and Phase III reports. The MBTA responded to the MassDEP comments to the Draft SOW for Phase IV RIP in a letter dated February 28, 2008.

A Draft Supplemental Phase II/III and Revised Phase IV report was submitted to MassDEP on September 11, 2008. MassDEP issued comments to MBTA on October 17, 2008, January 14, 2009 (from the MassDEP Office of Research and Standards, ORS), and March 23, 2009.

AECOM, on behalf of the MBTA, submitted a final Supplemental Phase II/III and Revised Phase IV Report to MassDEP on January 15, 2010. The revised supplemental Phase II/Phase III/Phase IV report described a Remedial Action Alternative for remediation of the 42-acre former railroad yard to commercial/industrial use standards. The stated objective of the remediation was to achieve a Class A-3 Remedial Action Outcome (RAO), supported by an Activity and Use Limitation (AUL). The selected Comprehensive Response Action includes soil excavation to meet commercial/industrial risk-based concentrations (RBCs) and off-site disposal following stabilization to reduce soil toxicity. MassDEP issued a letter granting Conditional Approval of the final Supplemental Phase II/III and Revised Phase IV Report on May 10, 2010.

The Phase IV Status Report #1 was submitted to MassDEP on November 5, 2010 that documented the results of a bench-scale treatability study and contractor procurement activities performed by the MBTA.

The Phase IV Status Report #2 was submitted to MassDEP on May 9, 2011 that documented the selection of a general contractor, S&R Enterprises, Inc. (S&R) of Plaistow, NH and environmental subcontractor, the Millennium Group of Companies (Millennium) of Marlborough, Massachusetts. A Notice to Proceed was issued to S&R by the MBTA on March 7, 2011.

3.0 Description of Type and Frequency of Operation, Maintenance, and Monitoring (OMM) Activities Conducted up to September 30, 2011

Pre-construction submittals were prepared by S&R/Millennium including a project schedule, health and safety plan, technical execution plan, and excavated materials management plan. The remediation schedule called for field operations to commence in April 2011 and for remediation to be completed by November 2011, with site restoration scheduled for Spring 2012.

Notice of the start of Phase IV remedial activities was submitted to the Chief Municipal Officer and Board of Health in Boston and Dedham on May 10, 2011. A copy of the public notifications are included in Appendix B.

The following site preparation activities commenced in early July 2011.

- A lined and paved soil handling area and a paved loading/truck wash area were prepared. The jersey barricades at the perimeter of this area were lined with two layers of 6-mil polyethylene sheeting. The interior of the soil handling area was constructed of a 4 inch gravel base followed by 3 inches of bituminous concrete pavement.

- Adjacent to the soil handling area a 14 foot wide road was constructed for loading treated and untreated soil. An 18-inch staked straw wattle was subsequently added to the outer edge of the paved haul road.

- Three days of baseline air samples were collected beginning on July 18, 2011 by ATC Associates Inc. (ATC). Four perimeter air monitoring locations were established, designated Northeast (NE), North (N), West (W) and southwest (SW) based on the distance to off-site structures and proposed excavation areas. Daily air samples were collected at each location using PQ-100 samplers and 5.0 micron PVC filters. The filter samples were stored on site and submitted daily to Con-Test Analytical Laboratory (ConTest) of East Longmeadow, Massachusetts for analysis of lead and arsenic via NIOSH 7300 method. In addition, hand held perimeter total dust levels were measured at each station hourly using a DustTrax II.

- Soil piles and haul road areas were cleared and grubbed and vegetation disposed of off-site at Bridgewater Farm Compost, Bridgewater, MA.

Remediation activities were initiated in early August. Large pieces of debris were removed from the soil piles and then the soil was screened with a Nordberg Screen-All CV-90-D to remove debris greater than 6-inches in diameter. Debris was segregated (granite, concrete, creosote railroad ties, #1 metal, #2 metal, tires, and miscellaneous solid waste. and placed into separate piles for subsequent characterization and disposal.

Samples of the waste streams, including the screened soil, were collected for disposal characterization and submitted to ConTest. Screened soil requiring stabilization was treated on-site with calcium sulfate supplied by Soil Solutions, LLC (Soil Solutions) at approximately a 1:6 ratio by volume (8 to 10% by weight). Treated soil was sampled and analyzed for toxicity characteristic leaching procedure (TCLP) lead following mixing with the reagent to ensure stabilization. A summary of disposal characterization analytical results is included in Table 1. The laboratory data is included as Appendix C.

Quantities of material, by waste stream, are summarized below. Waste disposal documentation for the debris is included in Appendix D. Bills of Lading for the soil are included as Appendix E.

3.1 Debris

Waste Stream	Facility	Units	Weight
Concrete	P.A. Landers, Inc. , 351 Winter Street, Hanover, MA	Tons	471.62
#1 Metal	James G. Grant Co., Inc., 28 Wolcott Street Rear, Readville, MA	Pounds	17,800

Waste Stream	Facility	Units	Weight
#2 Metal	James G. Grant Co., Inc., 28 Wolcott Street Rear, Readville, MA	Pounds	67,140
Miscellaneous Solid Waste	United Waste Management, 47 Kemble Street Roxbury, MA	Tons	11.12
Creosote Railroad Ties	WM Disposal Services of ME, 357 Mercer Road, Norridgewock, ME	Tons	43.97
Tailings from Screener	Northgate Recycling, 320 Charger Street, Revere, MA	Pounds	127,720

3.2 Contaminated Soil

Waste Stream	Facility	Units	Weight
Untreated Soil – Out of State Lined Landfill	Waste Management Turnkey, Rochester, NH	Tons	248.04
Treated Soil - Out of State Lined Landfill	Waste Management Turnkey, Rochester, NH	Tons	994.09

3.3 Environmental Monitoring

Air monitoring is being conducted in accordance with the Air Monitoring Plan included with the Supplemental Phase II/III and Revised Phase IV Report to MassDEP on January 15, 2010. Air monitoring was conducted on July 18, 2011 through July 20, 2011 prior to the start of remedial activities to quantify pre-remedial conditions of inhalable dust and site-specific contaminants. Perimeter maximum dust levels ranged from 98 to 134 micrograms per cubic meter, µg/m3, below the Site action level of 150 µg/m3. No arsenic or lead was detected in the dust samples collected.

Air monitoring has been conducted daily beginning July 25, 2011 since the start of remedial activities. Lead was detected in perimeter dust on August 25, 2011 and September 14, 2011, at concentrations well below the site-specific Acceptable Air Concentration. Arsenic has not been detected in perimeter dust. Total dust measurements have been below the Site action level on all days except for September 13, 2011 and September 21, 2011. The elevated readings on these days were collected in early morning prior to the start of remedial activities and were attributed to natural high relative humidity. Neither the Total Hazard Index nor the Total Risk Index for the nearest off-Site receptor has been exceeded.

Weekly reports have been submitted to municipal officials. A copy of the weekly reports are included in Appendix F.

4.0 Significant Modifications to OMM Program

None.

5.0 Performance of Remedial Action

Currently in progress.

5.1 Schedule

A Notice to Proceed was issued to the general contractor on March 7, 2011. On-site field activities began in July 2011. It was estimated that remedial activities would require four to seven months. Due to frozen ground conditions, it was anticipated that site restoration activities would be completed in Spring 2012. A Phase IV Final Inspection Report/Response Action Outcome is expected to be submitted to the MassDEP within six months after the Site restoration activities are complete and contractor close-out documents received.

6.0 Conditions or Problems Affecting Performance & Corrective Measures

No problems have been encountered during remedial design and bidding activities.

7.0 Measures Taken to Correct Conditions Affecting Performance of Comprehensive Remedial Action

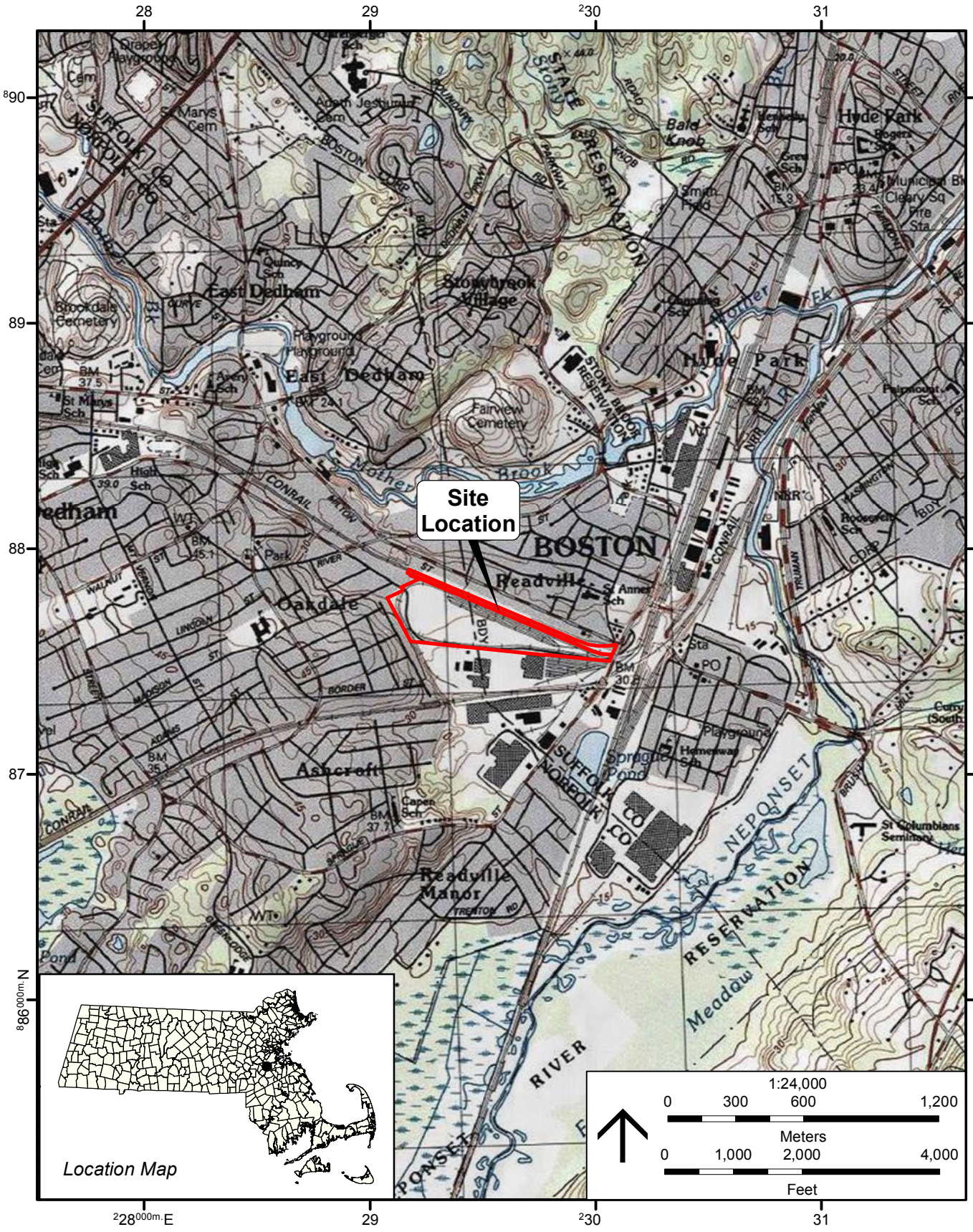
None.

8.0 LSP Opinion, Seal and Signature

The seal and signature of the Licensed Site Professional, Elissa J. Brown, LSP #5371, is provided on Form BWSC108, which is being submitted separately via eDEP with this document.

Figures

AECOM



Portion of Newton, Norwood, Boston South, and Boston North 7.5' USGS quadrangles.
Scanned quadrangles supplied by Esri.
Date of quads: 1985 and 1987.
10,000 Meter Grid Massachusetts State Plane NAD83.

Figure 1
Site Locus Map
MBTA Readville Yard 5 Site
Boston and Dedham, Massachusetts

Area 4 Exclusion Zone

Area 1 Orphan Line

Area 2 Western Fence Line

Area 3 Main Rail Yard

Aerial photo supplied by MassGIS.
Date of photo: 2008.

0 225 450
Feet

AECOM

- Soil Boring/Soil Sample
- Monitoring Well
- Test Pit
- Stockpile Composite
- XRF Locations
- Grid Sample Location
- Site Property Line
- Staging Area
- Water Line
- Sewer Line
- Gas Line
- Drain Line

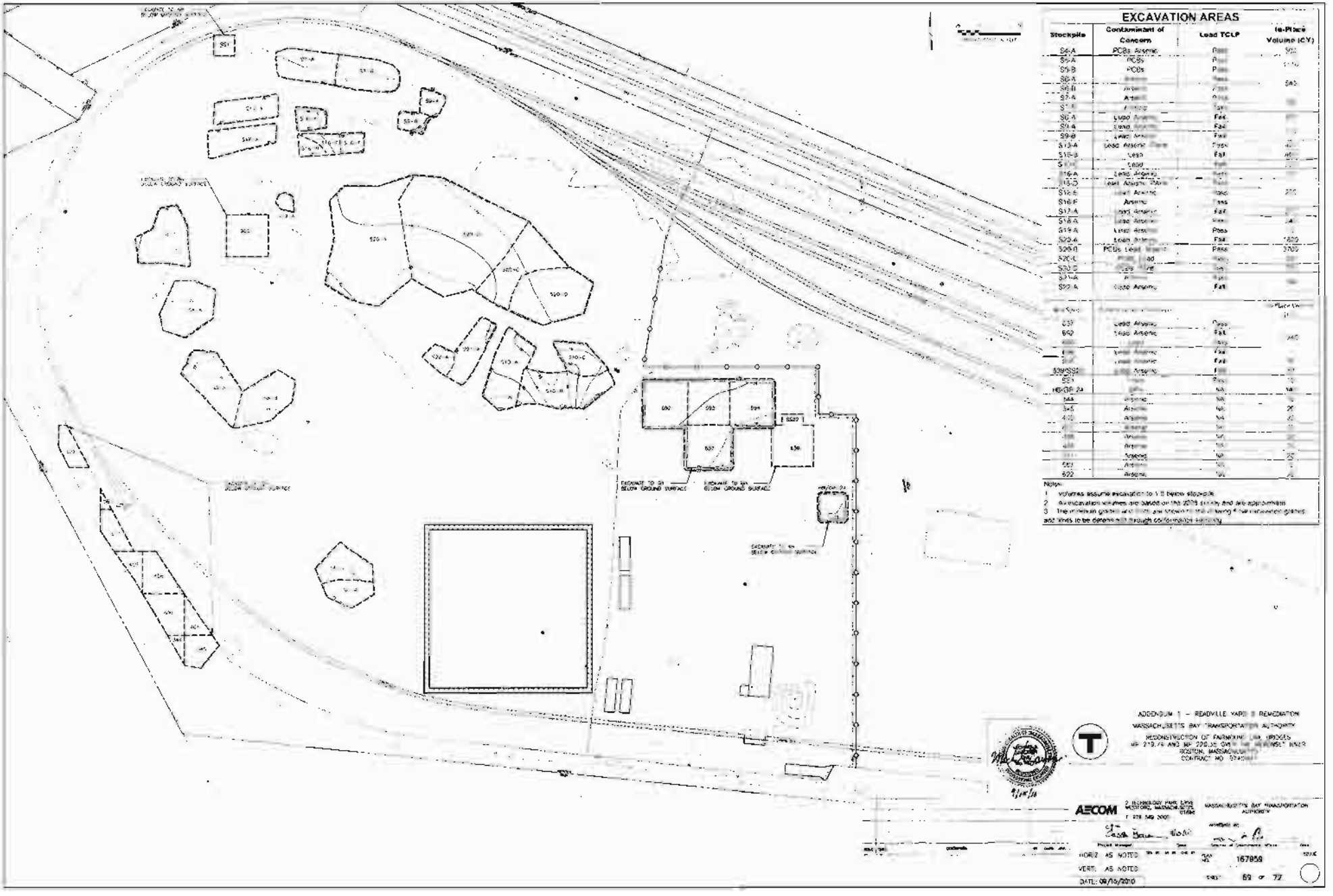


MBTA Readville Yard 5 Site
Dedham and Boston, Massachusetts

Figure 2
Site Plan

November 2011

Y:\work\105627\GIS\ReadvilleMaps\SiteMap.mxd
never never



EXCAVATION AREAS

Stockpile	Contaminant of Concern	Lead TCLP	In-Place Volume (CY)
S4-A	PCBs, Arsenic	Pass	500
S5-A	PCBs	Pass	1,100
S5-B	PCBs	Pass	
S6-A	[illegible]	Pass	540
S6-B	[illegible]	Pass	
S7-A	Arsenic	Pass	90
S7-B	[illegible]	Pass	
S8-A	Lead, Arsenic	Fail	870
S9-A	Lead, Arsenic	Fail	1,100
S9-B	Lead, Arsenic	Pass	
S13-A	Lead, Arsenic, PAHs	Fail	40
S13-B	Lead	Fail	40
S14-A	Lead	Pass	
S16-A	Lead, Arsenic	Pass	90
S15-B	Lead, Arsenic, PAHs	Pass	
S16-A	Lead, Arsenic	Pass	200
S16-B	Arsenic	Pass	
S17-A	Lead, Arsenic	Fail	90
S18-A	Lead, Arsenic	Pass	40
S19-A	Lead, Arsenic	Pass	
S20-A	Lead, Arsenic	Fail	1,600
S20-B	PCBs, Lead, Arsenic	Pass	3,700
S20-C	PCBs, Lead	Pass	200
S20-D	Lead	Pass	90
S21-A	Arsenic	Pass	90
S22-A	Lead, Arsenic	Fail	90

[illegible]	[illegible]	[illegible]	[illegible]
631	Lead, Arsenic	Pass	90
632	Lead, Arsenic	Fail	360
633	Lead, Arsenic	Pass	90
634	Lead, Arsenic	Fail	90
S39/S39A	PCBs	Pass	90
S21	[illegible]	Pass	90
HS-GP-24	[illegible]	NA	NA
S4A	Arsenic	NA	90
S4B	Arsenic	NA	90
S4C	Arsenic	NA	90
S5	Arsenic	NA	90
S6	Arsenic	NA	90
S6A	Arsenic	NA	90
S39/S39A	PCBs	NA	90
S631	Arsenic	NA	90
S632	Arsenic	NA	90

Notes:
1. Volumes assume excavation to 1.5 below stockpile.
2. All excavation volumes are based on the 2010 survey and are approximate.
3. The limits of contamination are known to exist only along the following cut transect planes and limits to be determined through confirmation sampling.

ADDENDUM 1 – READVILLE YARD II REMEDIATION
MASSACHUSETTS BAY TRANSPORTATION AUTHORITY
RECONSTRUCTION OF FAIRMOUNT LINE BRIDGES
MP 219.75 AND MP 220.05, SYD
BOSTON, MASSACHUSETTS
CONTRACT NO. S74DN11

AECOM
2 TECHNOLOGY PARK DRIVE
WESTFORD, MASSACHUSETTS
01886
T 978 589 3000

MASSACHUSETTS BAY TRANSPORTATION AUTHORITY

HORIZ AS NOTED
VERT. AS NOTED
DATE: 08/19/2010

DWG NO. 167859
SHEET 69 OF 72

Table

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION																			
	RY5 - Wood	RY5-Metals (2)	RY5-S-10-A	RY5-S-10-A	RY5-S-10-A	RY5-S20-B (4)	RY5-S20-B (4)	RY5-S20-B (5)	RY5-S20-B (5)	RY5-S20-B (6)	RY5-S20-B (6)	RY5-S20-B (7)	RY5-S20-B (7)	RY5-S20-B (8)	RY5-S20-B (8)	RY5-S20-B (9)	RY5-S20-B (9)	RY5-S20-B(1)	RY5-S20-B(2)	RY5-S20-B(3)
Sampling Date	8/9/2011 11:50:00 AM	8/11/2011 12:00:00 PM	8/3/2011 11:30:00 AM	8/3/2011 11:30:00 AM	8/3/2011 11:30:00 AM	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 1:45:00 PM	9/20/2011	9/20/2011 2:30:00 PM	9/20/2011	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM
Sample Depth	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	4- Feet	4- Feet	5- Feet	5- Feet	6- Feet	6- Feet	7- Feet	7- Feet	8- Feet	8- Feet	9- Feet	9- Feet	0- Feet	0- Feet	0- Feet
SM 2540G (% Wt)																				
% Solidsxxx	NT	NT	92.6	NT	92.6	87.3	NT	87.0	NT	83.8	NT	87.0	NT	89.2	NT	85.5	NT	89.3	86.7	86.0
SM18-20 2510B (µmhos/cm)																				
Specific Conductance	NT	NT	NT	NT	8.9	7.0	NT	9.2	NT	11	NT	13	NT	16	NT	12	NT	19	23	26
SM2580 A (mV)																				
Oxidation/Reduction Potential	NT	NT	NT	NT	110	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	110	90	95
SW-846 1010 (°F)																				
Flashpoint	NT	NT	**> 212 °F**	NT	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	**> 212 °F**	**> 212 °F**
SW-846 6010C (mg/Kg dry) Metals Digestion																				
Arsenic	NT	ND (2.8)	ND (2.7)	NT	NT	8.6	NT	9.5	NT	8.2	NT	12	NT	12	NT	10	NT	4.2	8.9	9.6
Barium	NT	NT	640	NT	NT	**1100**	NT	870	NT	990	NT	**1200**	NT	**1200**	NT	**1400**	NT	**1600**	910	**1500**
Cadmium	NT	NT	**4.4**	NT	NT	**8.7**	NT	**7.1**	NT	**8.2**	NT	**8.4**	NT	**23**	NT	**11**	NT	**14**	**8.3**	**9.5**
Chromium	NT	NT	**34**	NT	**34**	**62**	NT	**54**	NT	**62**	NT	**82**	NT	**74**	NT	**82**	NT	**160**	**60**	**75**
LEAD	NT	**390**	**1700**	NT	NT	**2800**	NT	**3400**	NT	**2700**	NT	**6400**	NT	**3600**	NT	**3700**	NT	**4100**	**2900**	**4400**
Selenium	NT	NT	ND (5.4)	NT	NT	ND (11)	NT	ND (5.7)	NT	ND (5.8)	NT	ND (5.6)	NT	ND (5.4)	NT	ND (11)	NT	ND (5.4)	ND (5.7)	ND (5.6)
Silver	NT	NT	1.5	NT	NT	2.1	NT	1.9	NT	2.6	NT	2.5	NT	2.2	NT	3.0	NT	5.1	1.2	3.3
SW-846 6010C (mg/L) 1311 TCLP EXT																				
Cadmium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0.069	NT	NT	NT	NT	NT
Chromium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
LEAD	0.093	NT	NT	3.9	NT	NT	12	NT	0.23	NT	0.13	NT	0.14	NT	6.1	NT	7.3	23	13	15
SW-846 7196A (mg/Kg dry)																				
chromium +6	NT	NT	NT	NT	ND (1.7)	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	2.0	2.0	ND (1.8)
SW-846 7471B (mg/Kg dry) Metals Digestion																				
Mercury	NT	NT	0.38	NT	NT	1.1	NT	0.94	NT	1.2	NT	0.91	NT	0.97	NT	1.0	NT	1.9	1.5	1.2
SW-846 8081B (mg/Kg dry)																				
Aldrin	NT	NT	ND (0.0053)	NT	NT	ND (0.029)	NT	ND (0.028)	NT	ND (0.030)	NT	ND (0.028)	NT	ND (0.028)	NT	ND (0.029)	NT	**ND (0.055) ***	**ND (0.057) ***	**ND (0.058) ***
ALPHA-BHC	NT	NT	ND (0.0053)	NT	NT	ND (0.029)	NT	ND (0.028)	NT	ND (0.030)	NT	ND (0.028)	NT	ND (0.028)	NT	ND (0.029)	NT	ND (0.055)	ND (0.057)	ND (0.058)
BETA-BHC	NT	NT	ND (0.0053)	NT	NT	ND (0.029)	NT	ND (0.028)	NT	ND (0.030)	NT	ND (0.028)	NT	ND (0.028)	NT	ND (0.029)	NT	ND (0.055)	ND (0.057)	ND (0.058)
DELTA-BHC	NT	NT	ND (0.0053)	NT	NT	ND (0.029)	NT	ND (0.028)	NT	ND (0.030)	NT	ND (0.028)	NT	ND (0.028)	NT	ND (0.029)	NT	ND (0.055)	ND (0.057)	ND (0.058)
GAMMA-BHC (LINDANE)	NT	NT	ND (0.0021)	NT	NT	**ND (0.011) ***	NT	**ND (0.011) ***	NT	**ND (0.012) ***	NT	**ND (0.011) ***	NT	**ND (0.011) ***	NT	**ND (0.012) ***	NT	**ND (0.022) ***	**ND (0.023) ***	**ND (0.023) ***
CHLORDANE	NT	NT	ND (0.021)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	ND (0.23)	ND (0.23)
4,4'-DDD	NT	NT	ND (0.0043)	NT	NT	ND (0.023)	NT	ND (0.022)	NT	ND (0.024)	NT	ND (0.022)	NT	ND (0.022)	NT	ND (0.023)	NT	ND (0.044)	ND (0.045)	ND (0.047)
4,4'-DDE	NT	NT	ND (0.0043)	NT	NT	ND (0.023)	NT	ND (0.022)	NT	ND (0.024)	NT	ND (0.022)	NT	ND (0.022)	NT	ND (0.023)	NT	ND (0.044)	ND (0.045)	ND (0.047)
4,4'-DDT	NT	NT	0.027	NT	NT	0.15	NT	0.11	NT	0.14	NT	0.064	NT	0.12	NT	ND (0.023)	NT	0.098	0.43	ND (0.047)
Dieldrin	NT	NT	ND (0.0043)	NT	NT	ND (0.023)	NT	ND (0.022)	NT	ND (0.024)	NT	ND (0.022)	NT	ND (0.022)	NT	ND (0.023)	NT	ND (0.044)	ND (0.045)	ND (0.047)
Endosulfan I	NT	NT	ND (0.0053)	NT	NT	ND (0.029)	NT	ND (0.028)	NT	ND (0.030)	NT	ND (0.028)	NT	ND (0.028)	NT	ND (0.029)	NT	ND (0.055)	ND (0.057)	ND (0.058)
Endosulfan II	NT	NT	ND (0.0086)	NT	NT	ND (0.046)	NT	ND (0.045)	NT	ND (0.048)	NT	ND (0.045)	NT	ND (0.045)	NT	ND (0.046)	NT	ND (0.089)	ND (0.090)	ND (0.093)
Endosulfan Sulfate	NT	NT	ND (0.0086)	NT	NT	ND (0.046)	NT	ND (0.045)	NT	ND (0.048)	NT	ND (0.045)	NT	ND (0.045)	NT	ND (0.046)	NT	ND (0.089)	ND (0.090)	ND (0.093)
Endrin	NT	NT	ND (0.0086)	NT	NT	ND (0.046)	NT	ND (0.045)	NT	ND (0.048)	NT	ND (0.045)	NT	ND (0.045)	NT	ND (0.046)	NT	ND (0.089)	ND (0.090)	ND (0.093)
ENDRIN KETONE	NT	NT	ND (0.0086)	NT	NT	ND (0.046)	NT	ND (0.045)	NT	ND (0.048)	NT	ND (0.045)	NT	ND (0.045)	NT	ND (0.046)	NT	ND (0.089)	ND (0.090)	ND (0.093)
Heptachlor	NT	NT	ND (0.0053)	NT	NT	ND (0.029)	NT	ND (0.028)	NT	ND (0.030)	NT	ND (0.028)	NT	ND (0.028)	NT	ND (0.029)	NT	ND (0.055)	ND (0.057)	ND (0.058)
Heptachlor Epoxide	NT	NT	ND (0.0053)	NT	NT	ND (0.029)	NT	ND (0.028)	NT	ND (0.030)	NT	ND (0.028)	NT	ND (0.028)	NT	ND (0.029)	NT	ND (0.055)	ND (0.057)	ND (0.058)
HEXACHLOROBENZENE	NT	NT	ND (0.0053)	NT	NT	ND (0.029)	NT	ND (0.028)	NT	ND (0.030)	NT	ND (0.028)	NT	ND (0.028)	NT	ND (0.029)	NT	ND (0.055)	ND (0.057)	ND (0.058)
Methoxychlor	NT	NT	ND (0.053)	NT	NT	ND (0.29)	NT	ND (0.28)	NT	ND (0.30)	NT	ND (0.28)	NT	ND (0.28)	NT	ND (0.29)	NT	ND (0.55)	ND (0.57)	ND (0.58)
SW-846 8082A (mg/Kg dry)																				
PCB 1016	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1221	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1232	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1242	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1248	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1221	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1254	NT	ND (0.20)	ND (0.11)	NT	NT	1.2	NT	1.0	NT	0.88	NT	1.8	NT	1.2	NT	**4.5**	NT	0.60	0.24	**14**
PCB 1260	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	0.50	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1262	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1268	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1232	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1242	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1248	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1254	NT	ND (0.20)	ND (0.11)	NT	NT	1.2	NT	1.0	NT	0.88	NT	1.8	NT	1.2	NT	**4.5**	NT	0.60	0.24	**14**
PCB 1260	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	0.50	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1262	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)
PCB 1268	NT	ND (0.20)	ND (0.11)	NT	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.22)	NT	ND (0.11)	NT	ND (0.58)	NT	ND (0.11)	ND (0.11)	ND (1.2)

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION																			
	RY5 - Wood	RY5-Metals (2)	RY5-S-10-A	RY5-S-10-A	RY5-S-10-A	RY5-S20-B (4)	RY5-S20-B (4)	RY5-S20-B (5)	RY5-S20-B (5)	RY5-S20-B (6)	RY5-S20-B (6)	RY5-S20-B (7)	RY5-S20-B (7)	RY5-S20-B (8)	RY5-S20-B (8)	RY5-S20-B (9)	RY5-S20-B (9)	RY5-S20-B(1)	RY5-S20-B(2)	RY5-S20-B(3)
Sampling Date	8/9/2011 11:50:00 AM	8/11/2011 12:00:00 PM	8/3/2011 11:30:00 AM	8/3/2011 11:30:00 AM	8/3/2011 11:30:00 AM	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 1:45:00 PM	9/20/2011	9/20/2011 2:30:00 PM	9/20/2011	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM
Sample Depth	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	4- Feet	4- Feet	5- Feet	5- Feet	6- Feet	6- Feet	7- Feet	7- Feet	8- Feet	8- Feet	9- Feet	9- Feet	0- Feet	0- Feet	0- Feet
SW-846 8100 Modified (mg/Kg dry)																				
TPH	NT	NT	480	NT	NT	780	NT	850	NT	1200	NT	720	NT	1000	NT	980	NT	690	750	700
SW-846 8151A																				
2,4-D	NT	NT	ND (51)	NT	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)
2,4-DB	NT	NT	ND (51)	NT	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)
2,4,5-TP (SILVEX)	NT	NT	ND (51)	NT	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)
2,4,5-T	NT	NT	ND (51)	NT	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)
DALAPON	NT	NT	ND (51)	NT	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)
DICAMBA	NT	NT	ND (51)	NT	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)
DICHLOROPROP	NT	NT	ND (51)	NT	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)
DINOSEB	NT	NT	ND (51)	NT	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)
SW-846 8260C (mg/Kg dry)																				
ACETONE	NT	NT	ND (3.1)	NT	NT	ND (3.1)	NT	ND (2.8)	NT	ND (3.5)	NT	ND (3.5)	NT	ND (2.8)	NT	ND (3.7)	NT	ND (2.8)	ND (2.5)	ND (4.3)
TERT-AMYLMETHYL ETHER	NT	NT	ND (0.031)	NT	NT	ND (0.031)	NT	ND (0.028)	NT	ND (0.035)	NT	ND (0.035)	NT	ND (0.028)	NT	ND (0.037)	NT	ND (0.028)	ND (0.025)	ND (0.043)
BENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
BROMOBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
BROMOCHLOROMETHANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
BROMODICHLOROMETHANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
BROMOFORM	NT	NT	**ND (0.31) ***	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
BROMOMETHANE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
2-BUTANONE (MEK)	NT	NT	ND (1.2)	NT	NT	ND (1.2)	NT	ND (1.1)	NT	ND (1.4)	NT	ND (1.4)	NT	ND (1.1)	NT	ND (1.5)	NT	ND (1.1)	ND (1.0)	ND (1.7)
N-BUTYLBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
SEC-BUTYLBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
TERT-BUTYLBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
TERT-BUTYLETHYL ETHER	NT	NT	ND (0.031)	NT	NT	ND (0.031)	NT	ND (0.028)	NT	ND (0.035)	NT	ND (0.035)	NT	ND (0.028)	NT	ND (0.037)	NT	ND (0.028)	ND (0.025)	ND (0.043)
CARBON DISULFIDE	NT	NT	ND (0.61)	NT	NT	ND (0.62)	NT	ND (0.57)	NT	ND (0.70)	NT	ND (0.70)	NT	ND (0.56)	NT	ND (0.73)	NT	ND (0.55)	ND (0.51)	ND (0.86)
CARBON TETRACHLORIDE	NT	NT	ND (0.31)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
CHLORODIBROMOMETHANE	NT	NT	**ND (0.061) ***	NT	NT	**ND (0.031) ***	NT	**ND (0.028) ***	NT	**ND (0.035) ***	NT	**ND (0.035) ***	NT	**ND (0.028) ***	NT	**ND (0.037) ***	NT	**ND (0.028) ***	**ND (0.025) ***	**ND (0.043) ***
CHLOROETHANE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
CHLOROFORM	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
CHLOROMETHANE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
2-CHLOROTOLUENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
4-CHLOROTOLUENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,2-DIBROMO-3-CHLOROPROPANE	NT	NT	ND (0.31)	NT	NT	ND (0.25)	NT	ND (0.23)	NT	ND (0.28)	NT	ND (0.28)	NT	ND (0.22)	NT	ND (0.29)	NT	ND (0.28)	ND (0.25)	ND (0.43)
EDB	NT	NT	ND (0.031)	NT	NT	ND (0.031)	NT	ND (0.028)	NT	ND (0.035)	NT	ND (0.035)	NT	ND (0.028)	NT	ND (0.037)	NT	ND (0.028)	ND (0.025)	ND (0.043)
DIBROMOMETHANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,2-DICHLOROBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,3-DICHLOROBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,4-DICHLOROBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
DICHLORODIFLUOROMETHANE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
1,1-DICHLOROETHANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,2-DICHLOROETHANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,1-DICHLOROETHYLENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
CIS-1,2-DICHLOROETHYLENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
TRANS-1,2-DICHLOROETHYLENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,2-DICHLOROPROPANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,3-DICHLOROPROPANE	NT	NT	ND (0.031)	NT	NT	ND (0.031)	NT	ND (0.028)	NT	ND (0.035)	NT	ND (0.035)	NT	ND (0.028)	NT	ND (0.037)	NT	ND (0.028)	ND (0.025)	ND (0.043)
2,2-DICHLOROPROPANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,1-DICHLOROPROPENE	NT	NT	**ND (0.12) ***	NT	NT	**ND (0.12) ***	NT	**ND (0.11) ***	NT	**ND (0.14) ***	NT	**ND (0.14) ***	NT	**ND (0.11) ***	NT	**ND (0.15) ***	NT	**ND (0.11) ***	**ND (0.10) ***	**ND (0.17) ***
CIS-1,3-DICHLOROPROPENE	NT	NT	**ND (0.061) ***	NT	NT	**ND (0.031) ***	NT	**ND (0.028) ***	NT	**ND (0.035) ***	NT	**ND (0.035) ***	NT	**ND (0.028) ***	NT	**ND (0.037) ***	NT	**ND (0.028) ***	**ND (0.025) ***	**ND (0.043) ***
TRANS-1,3-DICHLOROPROPENE	NT	NT	**ND (0.12) ***	NT	NT	**ND (0.031) ***	NT	**ND (0.028) ***	NT	**ND (0.035) ***	NT	**ND (0.035) ***	NT	**ND (0.028) ***	NT	**ND (0.037) ***	NT	**ND (0.028) ***	**ND (0.025) ***	**ND (0.043) ***
DIETHYL ETHER	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
DIISOPROPYL ETHER	NT	NT	ND (0.031)	NT	NT	ND (0.031)	NT	ND (0.028)	NT	ND (0.035)	NT	ND (0.035)	NT	ND (0.028)	NT	ND (0.037)	NT	ND (0.028)	ND (0.025)	ND (0.043)
1,4-DIOXANE	NT	NT	**ND (3.1) ***	NT	NT	**ND (3.1) ***	NT	**ND (2.8) ***	NT	**ND (3.5) ***	NT	**ND (3.5) ***	NT	**ND (2.8) ***	NT	**ND (3.7) ***	NT	**ND (2.8) ***	**ND (2.5) ***	**ND (4.3) ***
ETHYLBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
HEXACHLOROBUTADIENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
2-HEXANONE	NT	NT	ND (0.61)	NT	NT	ND (0.62)	NT	ND (0.57)	NT	ND (0.70)	NT	ND (0.70)	NT	ND (0.56)	NT	ND (0.73)	NT	ND (0.55)	ND (0.51)	ND (0.86)
ISOPROPYLBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
P-ISOPROPYLTOLUENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
MTBE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
METHYLENE CHLORIDE	NT	NT	**ND (0.31) ***	NT	NT	**ND (0.31) ***	NT	**ND (0.28) ***	NT	**ND (0.35) ***	NT	**ND (0.35) ***	NT	**ND (0.28) ***	NT	**ND (0.37) ***	NT	**ND (0.28) ***	**ND (0.25) ***	**ND (0.43) ***

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION																			
	RY5 - Wood	RY5-Metals (2)	RY5-S-10-A	RY5-S-10-A	RY5-S-10-A	RY5-S20-B (4)	RY5-S20-B (4)	RY5-S20-B (5)	RY5-S20-B (5)	RY5-S20-B (6)	RY5-S20-B (6)	RY5-S20-B (7)	RY5-S20-B (7)	RY5-S20-B (8)	RY5-S20-B (8)	RY5-S20-B (9)	RY5-S20-B (9)	RY5-S20-B(1)	RY5-S20-B(2)	RY5-S20-B(3)
Sampling Date	8/9/2011 11:50:00 AM	8/11/2011 12:00:00 PM	8/3/2011 11:30:00 AM	8/3/2011 11:30:00 AM	8/3/2011 11:30:00 AM	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 1:45:00 PM	9/20/2011	9/20/2011 2:30:00 PM	9/20/2011	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM
Sample Depth	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	4- Feet	4- Feet	5- Feet	5- Feet	6- Feet	6- Feet	7- Feet	7- Feet	8- Feet	8- Feet	9- Feet	9- Feet	0- Feet	0- Feet	0- Feet
MIBK	NT	NT	**ND (0.61) ***	NT	NT	**ND (0.62) ***	NT	**ND (0.57) ***	NT	**ND (0.70) ***	NT	**ND (0.70) ***	NT	**ND (0.56) ***	NT	**ND (0.73) ***	NT	**ND (0.55) ***	**ND (0.51) ***	**ND (0.86) ***
NAPHTHALENE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
N-PROPYLBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
STYRENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,1,1,2-TETRACHLOROETHANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,1,2,2-TETRACHLOROETHANE	NT	NT	**ND (0.031) ***	NT	NT	**ND (0.031) ***	NT	**ND (0.028) ***	NT	**ND (0.035) ***	NT	**ND (0.035) ***	NT	**ND (0.028) ***	NT	**ND (0.037) ***	NT	**ND (0.028) ***	**ND (0.025) ***	**ND (0.043) ***
TETRACHLOROETHYLENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
TETRAHYDROFURAN	NT	NT	ND (0.61)	NT	NT	ND (0.25)	NT	ND (0.23)	NT	ND (0.28)	NT	ND (0.28)	NT	ND (0.22)	NT	ND (0.29)	NT	ND (0.55)	ND (0.51)	ND (0.86)
TOLUENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,2,3-TRICHLOROBENZENE	NT	NT	ND (0.31)	NT	NT	ND (0.25)	NT	ND (0.23)	NT	ND (0.28)	NT	ND (0.28)	NT	ND (0.22)	NT	ND (0.29)	NT	ND (0.28)	ND (0.25)	ND (0.43)
1,2,4-TRICHLOROBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,1,1-TRICHLOROETHANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,1,2-TRICHLOROETHANE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
TRICHLOROETHYLENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
TRICHLOROFLUOROMETHANE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
1,2,3-TRICHLOROPROPANE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
1,2,4-TRIMETHYLBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
1,3,5-TRIMETHYLBENZENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
VINYL CHLORIDE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
M/P-XYLENE	NT	NT	ND (0.12)	NT	NT	ND (0.12)	NT	ND (0.11)	NT	ND (0.14)	NT	ND (0.14)	NT	ND (0.11)	NT	ND (0.15)	NT	ND (0.11)	ND (0.10)	ND (0.17)
O-XYLENE	NT	NT	ND (0.061)	NT	NT	ND (0.062)	NT	ND (0.057)	NT	ND (0.070)	NT	ND (0.070)	NT	ND (0.056)	NT	ND (0.073)	NT	ND (0.055)	ND (0.051)	ND (0.086)
SW-846 8270D (mg/Kg dry)																				
ACENAPHTHENE	NT	NT	ND (0.18)	NT	NT	ND (0.39)	NT	ND (0.39)	NT	ND (0.40)	NT	ND (0.39)	NT	ND (0.75)	NT	0.48	NT	ND (0.38)	ND (1.6)	ND (0.39)
ACENAPHTHYLENE	NT	NT	0.36	NT	NT	0.91	NT	0.52	NT	0.70	NT	0.63	NT	ND (0.75)	NT	0.94	NT	1.0	**ND (1.6) ***	0.64
ACETOPHENONE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
ANILINE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
ANTHRACENE	NT	NT	0.41	NT	NT	1.3	NT	0.84	NT	1.0	NT	1.4	NT	0.92	NT	2.1	NT	1.2	1.7	0.83
BENZO(A)ANTHRACENE	NT	NT	1.7	NT	NT	**7.7**	NT	4.1	NT	5.3	NT	6.0	NT	5.3	NT	**8.3**	NT	5.0	6.6	3.7
BENZO(A)PYRENE	NT	NT	1.5	NT	NT	**6.4**	NT	**3.7**	NT	**5.0**	NT	**4.8**	NT	**4.9**	NT	**6.5**	NT	**4.4**	**5.7**	**3.4**
BENZO(B)FLUORANTHENE	NT	NT	2.7	NT	NT	**11**	NT	6.7	NT	**9.4**	NT	**9.1**	NT	6.9	NT	**8.5**	NT	**8.2**	**8.3**	5.0
BENZO(G,H,I)PERYLENE	NT	NT	0.66	NT	NT	3.2	NT	1.5	NT	2.0	NT	2.2	NT	3.4	NT	3.6	NT	0.42	4.5	2.6
BENZO(K)FLUORANTHENE	NT	NT	0.93	NT	NT	3.7	NT	2.5	NT	3.2	NT	3.0	NT	2.2	NT	3.9	NT	2.8	3.2	1.9
BIS(2-CHLOROETHOXY)METHANE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
BIS(2-CHLOROETHYL)ETHER	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
BIS(2-CHLOROISOPROPYL)ETHER	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
BIS(2-ETHYLHEXYL)PHTHALATE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
4-BROMOPHENYL PHENYL ETHER	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
BUTYLBENZYLPHTHALATE	NT	NT	ND (0.71)	NT	NT	ND (1.5)	NT	ND (1.5)	NT	ND (1.6)	NT	ND (1.5)	NT	ND (2.9)	NT	ND (1.5)	NT	ND (1.5)	ND (6.1)	ND (1.5)
4-CHLOROANILINE	NT	NT	ND (0.71)	NT	NT	**ND (1.5) ***	NT	**ND (1.5) ***	NT	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (2.9) ***	NT	**ND (1.5) ***	NT	**ND (1.5) ***	**ND (6.1) ***	**ND (1.5) ***
2-CHLORONAPHTHALENE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
2-CHLOROPHENOL	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
CHRYSENE	NT	NT	2.1	NT	NT	8.0	NT	5.3	NT	5.9	NT	6.5	NT	5.9	NT	8.8	NT	5.9	7.3	4.5
DIBENZ(A,H)ANTHRACENE	NT	NT	0.21	NT	NT	**1.1**	NT	0.52	NT	0.70	NT	**0.73**	NT	**ND (0.75) ***	NT	**1.2**	NT	0.57	**ND (1.6) ***	**0.80**
DIBENZOFURAN	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
DI-N-BUTYLPHTHALATE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
1,2-DICHLOROBENZENE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
1,3-DICHLOROBENZENE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	**ND (1.5) ***	NT	ND (0.78)	NT	ND (0.76)	**ND (3.1) ***	ND (0.78)
1,4-DICHLOROBENZENE	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
3,3'-DICHLOROBENZIDINE	NT	NT	ND (0.18)	NT	NT	ND (0.39)	NT	ND (0.39)	NT	ND (0.40)	NT	ND (0.39)	NT	ND (0.75)	NT	ND (0.39)	NT	ND (0.38)	**ND (1.6) ***	ND (0.39)
2,4-DICHLOROPHENOL	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
DIETHYLPHTHALATE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
2,4-DIMETHYLPHENOL	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
DIMETHYLPHTHALATE	NT	NT	ND (0.71)	NT	NT	ND (1.5)	NT	ND (1.5)	NT	ND (1.6)	NT	ND (1.5)	NT	ND (2.9)	NT	ND (1.5)	NT	ND (1.5)	ND (6.1)	ND (1.5)
2,4-DINITROPHENOL	NT	NT	ND (0.71)	NT	NT	ND (1.5)	NT	ND (1.5)	NT	ND (1.6)	NT	ND (1.5)	NT	ND (2.9)	NT	ND (1.5)	NT	ND (1.5)	**ND (6.1) ***	ND (1.5)
2,4-DINITROTOLUENE	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
2,6-DINITROTOLUENE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
DI-N-OCTYLPHTHALATE	NT	NT	ND (0.71)	NT	NT	ND (1.5)	NT	ND (1.5)	NT	ND (1.6)	NT	ND (1.5)	NT	ND (2.9)	NT	ND (1.5)	NT	ND (1.5)	ND (6.1)	ND (1.5)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
FLUORANTHENE	NT	NT	3.4	NT	NT	10	NT	5.9	NT	6.6	NT	7.0	NT	5.5	NT	9.4	NT	6.4	12	5.9
FLUORENE	NT	NT	ND (0.18)	NT	NT	ND (0.39)	NT	ND (0.39)	NT	ND (0.40)	NT	ND (0.39)	NT	ND (0.75)	NT	0.44	NT	ND (0.38)	ND (1.6)	ND (0.39)
HEXACHLOROBENZENE	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
HEXACHLOROBUTADIENE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION																			
	RY5 - Wood	RY5-Metals (2)	RY5-S-10-A	RY5-S-10-A	RY5-S-10-A	RY5-S20-B (4)	RY5-S20-B (4)	RY5-S20-B (5)	RY5-S20-B (5)	RY5-S20-B (6)	RY5-S20-B (6)	RY5-S20-B (7)	RY5-S20-B (7)	RY5-S20-B (8)	RY5-S20-B (8)	RY5-S20-B (9)	RY5-S20-B (9)	RY5-S20-B(1)	RY5-S20-B(2)	RY5-S20-B(3)
Sampling Date	8/9/2011 11:50:00 AM	8/11/2011 12:00:00 PM	8/3/2011 11:30:00 AM	8/3/2011 11:30:00 AM	8/3/2011 11:30:00 AM	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 1:45:00 PM	9/20/2011	9/20/2011 2:30:00 PM	9/20/2011	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM
Sample Depth	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	4- Feet	4- Feet	5- Feet	5- Feet	6- Feet	6- Feet	7- Feet	7- Feet	8- Feet	8- Feet	9- Feet	9- Feet	0- Feet	0- Feet	0- Feet
HEXACHLOROETHANE	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
INDENO(1,2,3-CD)PYRENE	NT	NT	0.80	NT	NT	4.1	NT	2.0	NT	2.6	NT	2.8	NT	4.0	NT	4.3	NT	ND (0.38)	5.9	3.1
ISOPHORONE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
2-METHYLNAPHTHALENE	NT	NT	ND (0.18)	NT	NT	ND (0.39)	NT	ND (0.39)	NT	ND (0.40)	NT	ND (0.39)	NT	**ND (0.75) ***	NT	ND (0.39)	NT	0.62	**ND (1.6) ***	**0.71**
O-CRESOL	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
M/P-CRESOL	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
NAPHTHALENE	NT	NT	ND (0.18)	NT	NT	ND (0.39)	NT	ND (0.39)	NT	ND (0.40)	NT	ND (0.39)	NT	ND (0.75)	NT	0.54	NT	0.77	ND (1.6)	0.82
NITROBENZENE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
2-NITROPHENOL	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
4-NITROPHENOL	NT	NT	ND (0.71)	NT	NT	ND (1.5)	NT	ND (1.5)	NT	ND (1.6)	NT	ND (1.5)	NT	ND (2.9)	NT	ND (1.5)	NT	ND (1.5)	ND (6.1)	ND (1.5)
PENTACHLOROPHENOL	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	**ND (3.1) ***	ND (0.78)
PHENANTHRENE	NT	NT	1.3	NT	NT	4.3	NT	3.1	NT	3.2	NT	4.6	NT	3.6	NT	7.3	NT	3.7	8.0	3.9
PHENOL	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	**ND (1.5) ***	NT	ND (0.78)	NT	ND (0.76)	**ND (3.1) ***	ND (0.78)
PYRENE	NT	NT	2.7	NT	NT	6.9	NT	5.3	NT	4.9	NT	7.2	NT	7.5	NT	10	NT	8.5	15	7.1
1,2,4-TRICHLOROBENZENE	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	**ND (3.1) ***	ND (0.78)
2,4,5-TRICHLOROPHENOL	NT	NT	ND (0.37)	NT	NT	ND (0.77)	NT	ND (0.78)	NT	ND (0.81)	NT	ND (0.78)	NT	ND (1.5)	NT	ND (0.78)	NT	ND (0.76)	ND (3.1)	ND (0.78)
2,4,6-TRICHLOROPHENOL	NT	NT	ND (0.37)	NT	NT	**ND (0.77) ***	NT	**ND (0.78) ***	NT	**ND (0.81) ***	NT	**ND (0.78) ***	NT	**ND (1.5) ***	NT	**ND (0.78) ***	NT	**ND (0.76) ***	**ND (3.1) ***	**ND (0.78) ***
SW-846 9014 (mg/Kg)																				
Reactive Cyanide	NT	NT	ND (3.9)	NT	NT	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	ND (4.0)	ND (3.9)
SW-846 9030A (mg/Kg)																				
Reactive Sulfide	NT	NT	ND (20)	NT	NT	ND (19)	NT	ND (20)	NT	ND (20)	NT	ND (19)	NT	ND (20)	NT	ND (20)	NT	ND (20)	ND (20)	ND (19)
SW-846 9045C (pH Units)																				
pH	NT	NT	6.7	NT	7.9	7.6	NT	7.7	NT	7.5	NT	7.6	NT	7.7	NT	7.7	NT	7.2	7.4	7.5
Tri Chrome Calc. (mg/Kg) Metals Digestion																				
Zinc	NT	NT	NT	NT	34	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

NOTES:
1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
2. ND = Not detected above the lab reporting
3. NT = Not tested.
4. ~ = No Method 1 Standard or UCL available
5. Shaded values exceed the MCP Reportable
6. Bolded values exceed the Method 1 Cleanup

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION																		
	RY5-S20-C (3)	RY5-S20-C (3)	RY5-S20-C (4)	RY5-S20-C (4)	RY5-S20-C (5)	RY5-S20-C (5)	RY5-S20-C(1)	RY5-S20-C(2)	RY5-S20-D	RY5-S20-D (2)	RY5-S20-D (2)	RY5-S20-D (3)	RY5-S20-D (3)	RY5-S-21-A	RY5-S-21-A	RY5-S-21-A	RY5-Tailings	RY5-Tailings	RY5-TSP-001 (700-900)
Sampling Date	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 1:45:00 PM	9/20/2011	8/3/2011 11:45:00 AM	8/3/2011 11:45:00 AM	8/3/2011 11:45:00 AM	8/11/2011 12:05:00 PM	8/11/2011 12:05:00 PM	9/27/2011 1:20:00 PM
Sample Depth	3- Feet	3- Feet	4- Feet	4- Feet	5- Feet	5- Feet	0- Feet	0- Feet	0- Feet	2- Feet	2- Feet	3- Feet	3- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	- Feet
SM 2540G (% Wt)																			
% Solidsxxx	86.0	NT	87.3	NT	81.4	NT	87.3	85.8	90.9	83.9	NT	85.1	NT	92.5	NT	92.5	NT	NT	87.4
SM18-20 2510B (µmhos/cm)																			
Specific Conductance	7.4	NT	6.0	NT	12	NT	12	20	7.7	6.7	NT	6.2	NT	NT	NT	NT	NT	NT	360
SM2580 A (mV)																			
Oxidation/Reduction Potential	NT	NT	NT	NT	NT	NT	51	61	61	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SW-846 1010 (°F)																			
Flashpoint	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	**> 212 °F**	**> 212 °F**	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	NT	NT	NT	**> 212 °F**
SW-846 6010C (mg/Kg dry) Metals Digestion																			
Arsenic	8.6	NT	4.6	NT	5.6	NT	6.8	5.4	7.2	13	NT	12	NT	8.6	NT	NT	2.9	NT	5.6
Barium	690	NT	720	NT	**1300**	NT	830	1000	900	**1300**	NT	730	NT	990	NT	NT	NT	NT	520
Cadmium	**6.1**	NT	**5.6**	NT	**12**	NT	**5.6**	**8.4**	**6.8**	**10**	NT	**4.3**	NT	**9.2**	NT	NT	NT	NT	**4.3**
Chromium	**44**	NT	**47**	NT	**80**	NT	**41**	**62**	**54**	**68**	NT	**50**	NT	**680**	NT	**680**	NT	NT	**35**
LEAD	**2000**	NT	**1700**	NT	**2600**	NT	**2100**	**2700**	**2400**	**3100**	NT	**2500**	NT	**2400**	NT	NT	**2700**	NT	**5800**
Selenium	ND (5.6)	NT	ND (5.7)	NT	ND (5.8)	NT	ND (5.5)	ND (5.5)	ND (5.3)	ND (5.9)	NT	ND (5.7)	NT	ND (5.5)	NT	NT	NT	NT	ND (5.6)
Silver	5.2	NT	1.0	NT	1.8	NT	0.90	1.8	1.2	5.4	NT	1.1	NT	13	NT	NT	NT	NT	1.4
SW-846 6010C (mg/L) 1311 TCLP EXT																			
Cadmium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.010)	NT	NT	NT	NT
LEAD	NT	0.31	NT	1.5	NT	3.1	6.3	9.5	10	NT	3.4	NT	4.6	NT	3.9	NT	NT	4.1	1.1
SW-846 7196A (mg/Kg dry)																			
chromium +6	NT	NT	NT	NT	NT	NT	2.0	ND (1.9)	4.9	NT	NT	NT	NT	NT	NT	ND (2.1)	NT	NT	NT
SW-846 7471B (mg/Kg dry) Metals Digestion																			
Mercury	0.44	NT	0.48	NT	1.1	NT	0.62	1.4	0.59	0.69	NT	0.40	NT	1.2	NT	NT	NT	NT	0.64
SW-846 8081B (mg/Kg dry)																			
Aldrin	ND (0.029)	NT	ND (0.029)	NT	ND (0.030)	NT	**ND (0.057) ***	**ND (0.058) ***	**ND (0.054) ***	ND (0.029)	NT	ND (0.029)	NT	ND (0.0054)	NT	NT	NT	NT	ND (0.028)
ALPHA-BHC	ND (0.029)	NT	ND (0.029)	NT	ND (0.030)	NT	ND (0.057)	ND (0.058)	ND (0.054)	ND (0.029)	NT	ND (0.029)	NT	ND (0.0054)	NT	NT	NT	NT	ND (0.028)
BETA-BHC	ND (0.029)	NT	ND (0.029)	NT	ND (0.030)	NT	ND (0.057)	ND (0.058)	ND (0.054)	ND (0.029)	NT	ND (0.029)	NT	ND (0.0054)	NT	NT	NT	NT	ND (0.028)
DELTA-BHC	ND (0.029)	NT	ND (0.029)	NT	ND (0.030)	NT	ND (0.057)	ND (0.058)	ND (0.054)	ND (0.029)	NT	ND (0.029)	NT	ND (0.0054)	NT	NT	NT	NT	ND (0.028)
GAMMA-BHC (LINDANE)	**ND (0.012) ***	NT	**ND (0.011) ***	NT	**ND (0.012) ***	NT	**ND (0.023) ***	**ND (0.023) ***	**ND (0.022) ***	**ND (0.012) ***	NT	**ND (0.012) ***	NT	ND (0.0021)	NT	NT	NT	NT	**ND (0.011) ***
CHLORDANE	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.23)	ND (0.23)	ND (0.22)	ND (0.12)	NT	ND (0.12)	NT	ND (0.021)	NT	NT	NT	NT	ND (0.11)
4,4'-DDD	ND (0.023)	NT	ND (0.023)	NT	ND (0.024)	NT	ND (0.046)	ND (0.046)	0.049	ND (0.023)	NT	ND (0.024)	NT	ND (0.0043)	NT	NT	NT	NT	ND (0.023)
4,4'-DDE	ND (0.023)	NT	ND (0.023)	NT	ND (0.024)	NT	ND (0.046)	ND (0.046)	ND (0.043)	ND (0.023)	NT	ND (0.024)	NT	ND (0.0043)	NT	NT	NT	NT	ND (0.023)
4,4'-DDT	0.048	NT	0.045	NT	0.16	NT	0.052	0.16	0.11	0.11	NT	0.047	NT	ND (0.0043)	NT	NT	NT	NT	ND (0.023)
Dieldrin	ND (0.023)	NT	ND (0.023)	NT	ND (0.024)	NT	ND (0.046)	ND (0.046)	ND (0.043)	ND (0.023)	NT	ND (0.024)	NT	ND (0.0043)	NT	NT	NT	NT	ND (0.023)
Endosulfan I	ND (0.029)	NT	ND (0.029)	NT	ND (0.030)	NT	ND (0.057)	ND (0.058)	ND (0.054)	ND (0.029)	NT	ND (0.029)	NT	ND (0.0054)	NT	NT	NT	NT	ND (0.028)
Endosulfan II	ND (0.046)	NT	ND (0.046)	NT	ND (0.048)	NT	ND (0.092)	ND (0.092)	ND (0.086)	ND (0.047)	NT	ND (0.047)	NT	ND (0.0086)	NT	NT	NT	NT	ND (0.045)
Endosulfan Sulfate	ND (0.046)	NT	ND (0.046)	NT	ND (0.048)	NT	ND (0.092)	ND (0.092)	ND (0.086)	ND (0.047)	NT	ND (0.047)	NT	ND (0.0086)	NT	NT	NT	NT	ND (0.045)
Endrin	ND (0.046)	NT	ND (0.046)	NT	ND (0.048)	NT	ND (0.092)	ND (0.092)	ND (0.086)	ND (0.047)	NT	ND (0.047)	NT	ND (0.0086)	NT	NT	NT	NT	ND (0.045)
ENDRIN KETONE	ND (0.046)	NT	ND (0.046)	NT	ND (0.048)	NT	ND (0.092)	ND (0.092)	ND (0.086)	ND (0.047)	NT	ND (0.047)	NT	ND (0.0086)	NT	NT	NT	NT	ND (0.045)
Heptachlor	ND (0.029)	NT	ND (0.029)	NT	ND (0.030)	NT	ND (0.057)	ND (0.058)	ND (0.054)	ND (0.029)	NT	ND (0.029)	NT	ND (0.0054)	NT	NT	NT	NT	ND (0.028)
Heptachlor Epoxide	ND (0.029)	NT	ND (0.029)	NT	ND (0.030)	NT	ND (0.057)	ND (0.058)	ND (0.054)	ND (0.029)	NT	ND (0.029)	NT	ND (0.0054)	NT	NT	NT	NT	ND (0.028)
HEXACHLOROBENZENE	ND (0.029)	NT	ND (0.029)	NT	ND (0.030)	NT	ND (0.057)	ND (0.058)	ND (0.054)	ND (0.029)	NT	ND (0.029)	NT	ND (0.0054)	NT	NT	NT	NT	ND (0.028)
Methoxychlor	ND (0.29)	NT	ND (0.29)	NT	ND (0.30)	NT	ND (0.57)	ND (0.58)	ND (0.54)	ND (0.29)	NT	ND (0.29)	NT	ND (0.054)	NT	NT	NT	NT	ND (0.28)
SW-846 8082A (mg/Kg dry)																			
PCB 1016	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1221	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1232	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1242	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1248	ND (0.12)	NT	ND (0.11)	NT	1.1	NT	ND (0.11)	ND (0.12)	1.3	**6.8**	NT	0.32	NT	ND (0.21)	NT	NT	ND (0.10)	NT	0.42
PCB 1221	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1254	0.26	NT	0.34	NT	1.1	NT	0.39	1.4	ND (0.11)	**2.3**	NT	0.31	NT	**2.2**	NT	NT	ND (0.10)	NT	0.55
PCB 1260	0.21	NT	0.16	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	0.38	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1262	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1268	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1232	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1242	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1248	ND (0.12)	NT	ND (0.11)	NT	1.1	NT	ND (0.11)	ND (0.12)	1.3	**6.8**	NT	0.32	NT	ND (0.21)	NT	NT	ND (0.10)	NT	0.42
PCB 1254	0.26	NT	0.34	NT	1.1	NT	0.39	1.4	ND (0.11)	**2.3**	NT	0.31	NT	**2.2**	NT	NT	ND (0.10)	NT	0.55
PCB 1260	0.21	NT	0.16	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	0.38	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1262	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)
PCB 1268	ND (0.12)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	ND (0.12)	ND (0.11)	ND (0.58)	NT	ND (0.12)	NT	ND (0.21)	NT	NT	ND (0.10)	NT	ND (0.11)

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION																	
	RY5-S20-C (3)	RY5-S20-C (3)	RY5-S20-C (4)	RY5-S20-C (4)	RY5-S20-C (5)	RY5-S20-C (5)	RY5-S20-C(1)	RY5-S20-C(2)	RY5-S20-D	RY5-S20-D (2)	RY5-S20-D (2)	RY5-S20-D (3)	RY5-S20-D (3)	RY5-S-21-A	RY5-S-21-A	RY5-S-21-A	RY5-Tailings	RY5-Tailings	RY5-TSP-001 (700-900)
Sampling Date	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 1:45:00 PM	9/20/2011	8/3/2011 11:45:00 AM	8/3/2011 11:45:00 AM	8/3/2011 11:45:00 AM	8/11/2011 12:05:00 PM	8/11/2011 12:05:00 PM	9/27/2011 1:20:00 PM
Sample Depth	3- Feet	3- Feet	4- Feet	4- Feet	5- Feet	5- Feet	0- Feet	0- Feet	0- Feet	2- Feet	2- Feet	3- Feet	3- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	- Feet
SW-846 8100 Modified (mg/Kg dry)																			
TPH	610	NT	550	NT	500	NT	440	560	1200	1100	NT	610	NT	420	NT	NT	NT	NT	240
SW-846 8151A																			
2,4-D	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)	ND (60)	NT	ND (60)	NT	ND (54)	NT	NT	NT	NT	ND (55)
2,4-DB	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)	ND (60)	NT	ND (60)	NT	ND (54)	NT	NT	NT	NT	ND (55)
2,4,5-TP (SILVEX)	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)	ND (60)	NT	ND (60)	NT	ND (54)	NT	NT	NT	NT	ND (55)
2,4,5-T	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)	ND (60)	NT	ND (60)	NT	ND (54)	NT	NT	NT	NT	ND (55)
DALAPON	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)	ND (60)	NT	ND (60)	NT	ND (54)	NT	NT	NT	NT	ND (55)
DICAMBA	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)	ND (60)	NT	ND (60)	NT	ND (54)	NT	NT	NT	NT	ND (55)
DICHLOROPROP	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)	ND (60)	NT	ND (60)	NT	ND (54)	NT	NT	NT	NT	ND (55)
DINOSEB	ND (60)	NT	ND (60)	NT	ND (60)	NT	ND (60)	ND (60)	ND (60)	ND (60)	NT	ND (60)	NT	ND (54)	NT	NT	NT	NT	ND (55)
SW-846 8260C (mg/Kg dry)																			
ACETONE	ND (2.7)	NT	ND (3.7)	NT	ND (3.4)	NT	ND (2.8)	ND (3.5)	ND (3.8)	ND (4.1)	NT	ND (3.5)	NT	ND (3.7)	NT	NT	NT	NT	ND (2.8)
TERT-AMYLMETHYL ETHER	ND (0.027)	NT	ND (0.037)	NT	ND (0.034)	NT	ND (0.028)	ND (0.035)	ND (0.038)	ND (0.041)	NT	ND (0.035)	NT	ND (0.037)	NT	NT	NT	NT	ND (0.028)
BENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
BROMOBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
BROMOCHLOROMETHANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
BROMODICHLOROMETHANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
BROMOFORM	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	**ND (0.37) ***	NT	NT	NT	NT	**ND (0.28) ***
BROMOMETHANE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
2-BUTANONE (MEK)	ND (1.1)	NT	ND (1.5)	NT	ND (1.4)	NT	ND (1.1)	ND (1.4)	ND (1.5)	ND (1.6)	NT	ND (1.4)	NT	ND (1.5)	NT	NT	NT	NT	ND (1.1)
N-BUTYLBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.11)
SEC-BUTYLBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
TERT-BUTYLBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
TERT-BUTYLETHYL ETHER	ND (0.027)	NT	ND (0.037)	NT	ND (0.034)	NT	ND (0.028)	ND (0.035)	ND (0.038)	ND (0.041)	NT	ND (0.035)	NT	ND (0.037)	NT	NT	NT	NT	ND (0.028)
CARBON DISULFIDE	ND (0.54)	NT	ND (0.74)	NT	ND (0.69)	NT	ND (0.57)	ND (0.71)	ND (0.77)	ND (0.81)	NT	ND (0.71)	NT	ND (0.73)	NT	NT	NT	NT	ND (0.56)
CARBON TETRACHLORIDE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
CHLORODIBROMOMETHANE	**ND (0.027) ***	NT	**ND (0.037) ***	NT	**ND (0.034) ***	NT	**ND (0.028) ***	**ND (0.035) ***	**ND (0.038) ***	**ND (0.041) ***	NT	**ND (0.035) ***	NT	**ND (0.073) ***	NT	NT	NT	NT	**ND (0.028) ***
CHLOROETHANE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
CHLOROFORM	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
CHLOROMETHANE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
2-CHLOROTOLUENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
4-CHLOROTOLUENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,2-DIBROMO-3-CHLOROPROPANE	ND (0.21)	NT	ND (0.29)	NT	ND (0.27)	NT	ND (0.28)	ND (0.35)	ND (0.38)	ND (0.32)	NT	ND (0.28)	NT	ND (0.37)	NT	NT	NT	NT	ND (0.28)
EDB	ND (0.027)	NT	ND (0.037)	NT	ND (0.034)	NT	ND (0.028)	ND (0.035)	ND (0.038)	ND (0.041)	NT	ND (0.035)	NT	ND (0.037)	NT	NT	NT	NT	ND (0.028)
DIBROMOMETHANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,2-DICHLOROBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,3-DICHLOROBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,4-DICHLOROBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
DICHLORODIFLUOROMETHANE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
1,1-DICHLOROETHANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,2-DICHLOROETHANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,1-DICHLOROETHYLENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
CIS-1,2-DICHLOROETHYLENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
TRANS-1,2-DICHLOROETHYLENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,2-DICHLOROPROPANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,3-DICHLOROPROPANE	ND (0.027)	NT	ND (0.037)	NT	ND (0.034)	NT	ND (0.028)	ND (0.035)	ND (0.038)	ND (0.041)	NT	ND (0.035)	NT	ND (0.037)	NT	NT	NT	NT	ND (0.028)
2,2-DICHLOROPROPANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,1-DICHLOROPROPENE	**ND (0.11) ***	NT	**ND (0.15) ***	NT	**ND (0.14) ***	NT	**ND (0.11) ***	**ND (0.14) ***	**ND (0.15) ***	**ND (0.16) ***	NT	**ND (0.14) ***	NT	**ND (0.15) ***	NT	NT	NT	NT	**ND (0.11) ***
CIS-1,3-DICHLOROPROPENE	**ND (0.027) ***	NT	**ND (0.037) ***	NT	**ND (0.034) ***	NT	**ND (0.028) ***	**ND (0.035) ***	**ND (0.038) ***	**ND (0.041) ***	NT	**ND (0.035) ***	NT	**ND (0.073) ***	NT	NT	NT	NT	**ND (0.028) ***
TRANS-1,3-DICHLOROPROPENE	**ND (0.027) ***	NT	**ND (0.037) ***	NT	**ND (0.034) ***	NT	**ND (0.028) ***	**ND (0.035) ***	**ND (0.038) ***	**ND (0.041) ***	NT	**ND (0.035) ***	NT	**ND (0.15) ***	NT	NT	NT	NT	**ND (0.028) ***
DIETHYL ETHER	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
DIISOPROPYL ETHER	ND (0.027)	NT	ND (0.037)	NT	ND (0.034)	NT	ND (0.028)	ND (0.035)	ND (0.038)	ND (0.041)	NT	ND (0.035)	NT	ND (0.037)	NT	NT	NT	NT	ND (0.028)
1,4-DIOXANE	**ND (2.7) ***	NT	**ND (3.7) ***	NT	**ND (3.4) ***	NT	**ND (2.8) ***	**ND (3.5) ***	**ND (3.8) ***	**ND (4.1) ***	NT	**ND (3.5) ***	NT	**ND (3.7) ***	NT	NT	NT	NT	**ND (2.8) ***
ETHYLBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
HEXACHLOROBUTADIENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
2-HEXANONE	ND (0.54)	NT	ND (0.74)	NT	ND (0.69)	NT	ND (0.57)	ND (0.71)	ND (0.77)	ND (0.81)	NT	ND (0.71)	NT	ND (0.73)	NT	NT	NT	NT	ND (0.56)
ISOPROPYLBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
P-ISOPROPYLTOLUENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
MTBE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
METHYLENE CHLORIDE	**ND (0.27) ***	NT	**ND (0.37) ***	NT	**ND (0.34) ***	NT	**ND (0.28) ***	**ND (0.35) ***	**ND (0.38) ***	**ND (0.41) ***	NT	**ND (0.35) ***	NT	**ND (0.37) ***	NT	NT	NT	NT	**ND (0.28) ***

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION																		
	RY5-S20-C (3)	RY5-S20-C (3)	RY5-S20-C (4)	RY5-S20-C (4)	RY5-S20-C (5)	RY5-S20-C (5)	RY5-S20-C(1)	RY5-S20-C(2)	RY5-S20-D	RY5-S20-D (2)	RY5-S20-D (2)	RY5-S20-D (3)	RY5-S20-D (3)	RY5-S-21-A	RY5-S-21-A	RY5-S-21-A	RY5-Tailings	RY5-Tailings	RY5-TSP-001 (700-900)
Sampling Date	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 1:45:00 PM	9/20/2011	8/3/2011 11:45:00 AM	8/3/2011 11:45:00 AM	8/3/2011 11:45:00 AM	8/11/2011 12:05:00 PM	8/11/2011 12:05:00 PM	9/27/2011 1:20:00 PM
Sample Depth	3- Feet	3- Feet	4- Feet	4- Feet	5- Feet	5- Feet	0- Feet	0- Feet	0- Feet	2- Feet	2- Feet	3- Feet	3- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	- Feet
MIBK	**ND (0.54) ***	NT	**ND (0.74) ***	NT	**ND (0.69) ***	NT	**ND (0.57) ***	**ND (0.71) ***	**ND (0.77) ***	**ND (0.81) ***	NT	**ND (0.71) ***	NT	**ND (0.73) ***	NT	NT	NT	NT	**ND (0.56) ***
NAPHTHALENE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.56)
N-PROPYLBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
STYRENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,1,1,2-TETRACHLOROETHANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,1,2,2-TETRACHLOROETHANE	**ND (0.027) ***	NT	**ND (0.037) ***	NT	**ND (0.034) ***	NT	**ND (0.028) ***	**ND (0.035) ***	**ND (0.038) ***	**ND (0.041) ***	NT	**ND (0.035) ***	NT	**ND (0.037) ***	NT	NT	NT	NT	**ND (0.028) ***
TETRACHLOROETHYLENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
TETRAHYDROFURAN	ND (0.21)	NT	ND (0.29)	NT	ND (0.27)	NT	ND (0.57)	ND (0.71)	ND (0.77)	ND (0.32)	NT	ND (0.28)	NT	ND (0.73)	NT	NT	NT	NT	ND (0.22)
TOLUENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,2,3-TRICHLOROBENZENE	ND (0.21)	NT	ND (0.29)	NT	ND (0.27)	NT	ND (0.28)	ND (0.35)	ND (0.38)	ND (0.32)	NT	ND (0.28)	NT	ND (0.37)	NT	NT	NT	NT	ND (0.28)
1,2,4-TRICHLOROBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.28)
1,1,1-TRICHLOROETHANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,1,2-TRICHLOROETHANE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
TRICHLOROETHYLENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
TRICHLOROFLUOROMETHANE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
1,2,3-TRICHLOROPROPANE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
1,2,4-TRIMETHYLBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
1,3,5-TRIMETHYLBENZENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
VINYL CHLORIDE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
M/P-XYLENE	ND (0.11)	NT	ND (0.15)	NT	ND (0.14)	NT	ND (0.11)	ND (0.14)	ND (0.15)	ND (0.16)	NT	ND (0.14)	NT	ND (0.15)	NT	NT	NT	NT	ND (0.11)
O-XYLENE	ND (0.054)	NT	ND (0.074)	NT	ND (0.069)	NT	ND (0.057)	ND (0.071)	ND (0.077)	ND (0.081)	NT	ND (0.071)	NT	ND (0.073)	NT	NT	NT	NT	ND (0.056)
SW-846 8270D (mg/Kg dry)																			
ACENAPHTHENE	ND (0.78)	NT	ND (0.77)	NT	ND (0.83)	NT	ND (0.39)	ND (0.78)	ND (1.9)	ND (0.81)	NT	ND (0.79)	NT	0.20	NT	NT	NT	NT	ND (1.6)
ACENAPHTHYLENE	ND (0.78)	NT	ND (0.77)	NT	ND (0.83)	NT	0.39	ND (0.78)	**ND (1.9) ***	**1.5**	NT	ND (0.79)	NT	0.48	NT	NT	NT	NT	**ND (1.6) ***
ACETOPHENONE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
ANILINE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
ANTHRACENE	ND (0.78)	NT	ND (0.77)	NT	ND (0.83)	NT	0.58	ND (0.78)	2.3	2.6	NT	ND (0.79)	NT	0.59	NT	NT	NT	NT	ND (1.6)
BENZO(A)ANTHRACENE	2.5	NT	3.1	NT	3.3	NT	3.0	3.2	**9.7**	**11**	NT	4.6	NT	2.9	NT	NT	NT	NT	ND (1.6)
BENZO(A)PYRENE	**2.1**	NT	**2.5**	NT	**3.2**	NT	**2.7**	**2.9**	**8.2**	**8.9**	NT	ND (0.79)	NT	**2.6**	NT	NT	NT	NT	ND (1.6)
BENZO(B)FLUORANTHENE	3.9	NT	5.0	NT	6.2	NT	4.7	4.4	**13**	**17**	NT	6.2	NT	4.2	NT	NT	NT	NT	ND (1.6)
BENZO(G,H,I)PERYLENE	1.1	NT	1.5	NT	1.7	NT	1.3	2.1	6.7	4.0	NT	ND (0.79)	NT	0.97	NT	NT	NT	NT	ND (1.6)
BENZO(K)FLUORANTHENE	1.3	NT	1.7	NT	1.9	NT	1.8	1.7	5.3	6.1	NT	1.8	NT	1.7	NT	NT	NT	NT	ND (1.6)
BIS(2-CHLOROETHOXY)METHANE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
BIS(2-CHLOROETHYL)ETHER	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
BIS(2-CHLOROISOPROPYL)ETHER	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
BIS(2-ETHYLHEXYL)PHTHALATE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
4-BROMOPHENYL PHENYL ETHER	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
BUTYLBENZYLPHTHALATE	ND (3.0)	NT	ND (3.0)	NT	ND (3.2)	NT	ND (1.5)	ND (3.0)	ND (7.2)	ND (3.1)	NT	ND (3.1)	NT	ND (0.71)	NT	NT	NT	NT	ND (6.0)
4-CHLOROANILINE	**ND (3.0) ***	NT	**ND (3.0) ***	NT	**ND (3.2) ***	NT	**ND (1.5) ***	**ND (3.0) ***	**ND (7.2) ***	**ND (3.1) ***	NT	**ND (3.1) ***	NT	ND (0.71)	NT	NT	NT	NT	**ND (6.0) ***
2-CHLORONAPHTHALENE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
2-CHLOROPHENOL	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
CHRYSENE	2.8	NT	3.4	NT	3.9	NT	3.5	3.7	12	11	NT	5.5	NT	3.4	NT	NT	NT	NT	ND (1.6)
DIBENZ(A,H)ANTHRACENE	**ND (0.78) ***	NT	**ND (0.77) ***	NT	**ND (0.83) ***	NT	0.39	**ND (0.78) ***	**2.0**	**1.3**	NT	**ND (0.79) ***	NT	0.32	NT	NT	NT	NT	**ND (1.6) ***
DIBENZOFURAN	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
DI-N-BUTYLPHTHALATE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
1,2-DICHLOROBENZENE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
1,3-DICHLOROBENZENE	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	ND (0.77)	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
1,4-DICHLOROBENZENE	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
3,3'-DICHLOROBENZIDINE	ND (0.78)	NT	ND (0.77)	NT	ND (0.83)	NT	ND (0.39)	ND (0.78)	**ND (1.9) ***	ND (0.81)	NT	ND (0.79)	NT	ND (0.18)	NT	NT	NT	NT	**ND (1.6) ***
2,4-DICHLOROPHENOL	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
DIETHYLPHTHALATE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
2,4-DIMETHYLPHENOL	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
DIMETHYLPHTHALATE	ND (3.0)	NT	ND (3.0)	NT	ND (3.2)	NT	ND (1.5)	ND (3.0)	ND (7.2)	ND (3.1)	NT	ND (3.1)	NT	ND (0.71)	NT	NT	NT	NT	ND (6.0)
2,4-DINITROPHENOL	ND (3.0)	NT	ND (3.0)	NT	**ND (3.2) ***	NT	ND (1.5)	ND (3.0)	**ND (7.2) ***	**ND (3.1) ***	NT	**ND (3.1) ***	NT	ND (0.71)	NT	NT	NT	NT	**ND (6.0) ***
2,4-DINITROTOLUENE	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
2,6-DINITROTOLUENE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
DI-N-OCTYLPHTHALATE	ND (3.0)	NT	ND (3.0)	NT	ND (3.2)	NT	ND (1.5)	ND (3.0)	ND (7.2)	ND (3.1)	NT	ND (3.1)	NT	ND (0.71)	NT	NT	NT	NT	ND (6.0)
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
FLUORANTHENE	4.4	NT	4.5	NT	4.5	NT	5.5	4.6	17	18	NT	6.1	NT	5.9	NT	NT	NT	NT	2.4
FLUORENE	ND (0.78)	NT	ND (0.77)	NT	ND (0.83)	NT	ND (0.39)	ND (0.78)	ND (1.9)	ND (0.81)	NT	ND (0.79)	NT	0.26	NT	NT	NT	NT	ND (1.6)
HEXACHLOROBENZENE	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
HEXACHLOROBUTADIENE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION																		
	RY5-S20-C (3)	RY5-S20-C (3)	RY5-S20-C (4)	RY5-S20-C (4)	RY5-S20-C (5)	RY5-S20-C (5)	RY5-S20-C(1)	RY5-S20-C(2)	RY5-S20-D	RY5-S20-D (2)	RY5-S20-D (2)	RY5-S20-D (3)	RY5-S20-D (3)	RY5-S-21-A	RY5-S-21-A	RY5-S-21-A	RY5-Tailings	RY5-Tailings	RY5-TSP-001 (700-900)
Sampling Date	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 12:50:00 PM	9/20/2011	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	8/31/2011 11:45:00 AM	9/20/2011 12:50:00 PM	9/20/2011	9/20/2011 1:45:00 PM	9/20/2011	8/3/2011 11:45:00 AM	8/3/2011 11:45:00 AM	8/3/2011 11:45:00 AM	8/11/2011 12:05:00 PM	8/11/2011 12:05:00 PM	9/27/2011 1:20:00 PM
Sample Depth	3- Feet	3- Feet	4- Feet	4- Feet	5- Feet	5- Feet	0- Feet	0- Feet	0- Feet	2- Feet	2- Feet	3- Feet	3- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	- Feet
HEXACHLOROETHANE	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
INDENO(1,2,3-CD)PYRENE	1.4	NT	1.9	NT	2.1	NT	1.7	2.9	**8.7**	5.2	NT	2.5	NT	1.2	NT	NT	NT	NT	ND (1.6)
ISOPHORONE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
2-METHYLNAPHTHALENE	**ND (0.78) ***	NT	**ND (0.77) ***	NT	**ND (0.83) ***	NT	ND (0.39)	**ND (0.78) ***	**ND (1.9) ***	**ND (0.81) ***	NT	**ND (0.79) ***	NT	ND (0.18)	NT	NT	NT	NT	**ND (1.6) ***
O-CRESOL	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
M/P-CRESOL	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
NAPHTHALENE	ND (0.78)	NT	ND (0.77)	NT	ND (0.83)	NT	ND (0.39)	ND (0.78)	ND (1.9)	ND (0.81)	NT	ND (0.79)	NT	0.22	NT	NT	NT	NT	ND (1.6)
NITROBENZENE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
2-NITROPHENOL	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
4-NITROPHENOL	ND (3.0)	NT	ND (3.0)	NT	ND (3.2)	NT	ND (1.5)	ND (3.0)	ND (7.2)	ND (3.1)	NT	ND (3.1)	NT	ND (0.71)	NT	NT	NT	NT	ND (6.0)
PENTACHLOROPHENOL	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	**ND (3.7) ***	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
PHENANTHRENE	1.3	NT	1.3	NT	1.7	NT	1.6	1.6	3.8	8.9	NT	1.6	NT	3.5	NT	NT	NT	NT	ND (1.6)
PHENOL	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	ND (0.77)	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
PYRENE	3.6	NT	3.7	NT	3.7	NT	5.0	6.4	22	13	NT	7.8	NT	7.4	NT	NT	NT	NT	3.2
1,2,4-TRICHLOROBENZENE	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	**ND (3.7) ***	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
2,4,5-TRICHLOROPHENOL	ND (1.6)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (0.77)	ND (1.6)	ND (3.7)	ND (1.6)	NT	ND (1.6)	NT	ND (0.37)	NT	NT	NT	NT	ND (3.1)
2,4,6-TRICHLOROPHENOL	**ND (1.6) ***	NT	**ND (1.5) ***	NT	**ND (1.7) ***	NT	**ND (0.77) ***	**ND (1.6) ***	**ND (3.7) ***	**ND (1.6) ***	NT	**ND (1.6) ***	NT	ND (0.37)	NT	NT	NT	NT	**ND (3.1) ***
SW-846 9014 (mg/Kg)																			
Reactive Cyanide	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	ND (3.9)	ND (3.9)	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	NT	NT	NT	NT	ND (3.9)
SW-846 9030A (mg/Kg)																			
Reactive Sulfide	ND (20)	NT	ND (20)	NT	ND (20)	NT	ND (20)	ND (20)	ND (20)	ND (20)	NT	ND (20)	NT	ND (20)	NT	NT	NT	NT	ND (20)
SW-846 9045C (pH Units)																			
pH	7.3	NT	7.4	NT	7.6	NT	7.2	7.3	7.0	7.4	NT	7.2	NT	7.5	NT	NT	NT	NT	7.9
Tri Chrome Calc. (mg/Kg) Metals Digestion																			
Zinc	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	680	NT	NT	NT

NOTES:
1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
2. ND = Not detected above the lab reporting
3. NT = Not tested.
4. ~ = No Method 1 Standard or UCL available
5. Shaded values exceed the MCP Reportable
6. Bolded values exceed the Method 1 Cleanup

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION												
	RY5-TSP1(0-200) Conf.	RY5-TSP1(0-200) Conf.	RY5-TSP1(200-400) Conf.	RY5-TSP1(200-400) Conf.	RY5-TSP1(400-600) Conf.	RY5-TSP1(400-600) Conf.	RY5-TSP1(600-700) Conf.	RY5-TSP1(600-700) Conf.	RY5-TSP-Supp.	RYS Taillings (0-250)	RYS Taillings (250-500)	RYS Taillings (500-750)	RYS Taillings (750-1000)
Sampling Date	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 12:15:00 PM	9/27/2011 1:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 1:00:00 AM
Sample Depth	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	- Feet	0- Feet	- Feet	0- Feet	0- Feet
SM 2540G (% Wt)													
% Solidsxxx	NT	90.7	NT	93.3	NT	88.4	NT	85.4	NT	NT	NT	NT	NT
SM18-20 2510B (µmhos/cm)													
Specific Conductance	NT	240	NT	260	NT	250	NT	280	NT	NT	NT	NT	NT
SM2580 A (mV)													
Oxidation/Reduction Potential	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SW-846 1010 (°F)													
Flashpoint	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	NT	NT	NT	NT
SW-846 6010C (mg/Kg dry) Metals Digestion													
Arsenic	NT	11	NT	11	NT	15	NT	13	NT	NT	NT	NT	NT
Barium	NT	650	NT	540	NT	540	NT	520	NT	NT	NT	NT	NT
Cadmium	NT	**5.0**	NT	**4.1**	NT	**4.3**	NT	**7.5**	NT	NT	NT	NT	NT
Chromium	NT	**44**	NT	**35**	NT	**41**	NT	**35**	NT	NT	NT	NT	NT
LEAD	NT	**2700**	NT	**5300**	NT	**1900**	NT	**2300**	NT	NT	NT	NT	NT
Selenium	NT	ND (5.5)	NT	ND (5.1)	NT	ND (5.7)	NT	ND (5.8)	NT	NT	NT	NT	NT
Silver	NT	ND (0.55)	NT	ND (0.51)	NT	ND (0.57)	NT	1.8	NT	NT	NT	NT	NT
SW-846 6010C (mg/L) 1311 TCLP EXT													
Cadmium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
LEAD	ND (0.010)	NT	0.015	NT	0.20	NT	ND (0.010)	NT	0.19	ND (0.010)	0.035	ND (0.010)	ND (0.010)
SW-846 7196A (mg/Kg dry)													
chromium +6	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
SW-846 7471B (mg/Kg dry) Metals Digestion													
Mercury	NT	0.95	NT	0.86	NT	1.0	NT	1.2	NT	NT	NT	NT	NT
SW-846 8081B (mg/Kg dry)													
Aldrin	NT	ND (0.0055)	NT	ND (0.0054)	NT	ND (0.0056)	NT	ND (0.0059)	NT	NT	NT	NT	NT
ALPHA-BHC	NT	ND (0.0055)	NT	ND (0.0054)	NT	ND (0.0056)	NT	ND (0.0059)	NT	NT	NT	NT	NT
BETA-BHC	NT	ND (0.0055)	NT	ND (0.0054)	NT	ND (0.0056)	NT	ND (0.0059)	NT	NT	NT	NT	NT
DELTA-BHC	NT	ND (0.0055)	NT	ND (0.0054)	NT	ND (0.0056)	NT	ND (0.0059)	NT	NT	NT	NT	NT
GAMMA-BHC (LINDANE)	NT	ND (0.0022)	NT	ND (0.0021)	NT	ND (0.0022)	NT	ND (0.0023)	NT	NT	NT	NT	NT
CHLORDANE	NT	0.046	NT	ND (0.021)	NT	ND (0.022)	NT	ND (0.023)	NT	NT	NT	NT	NT
4,4'-DDD	NT	0.0082	NT	ND (0.0043)	NT	ND (0.0045)	NT	ND (0.0047)	NT	NT	NT	NT	NT
4,4'-DDE	NT	ND (0.0044)	NT	ND (0.0043)	NT	ND (0.0045)	NT	ND (0.0047)	NT	NT	NT	NT	NT
4,4'-DDT	NT	0.013	NT	0.0093	NT	0.0078	NT	ND (0.0047)	NT	NT	NT	NT	NT
Dieldrin	NT	ND (0.0044)	NT	ND (0.0043)	NT	ND (0.0045)	NT	ND (0.0047)	NT	NT	NT	NT	NT
Endosulfan I	NT	ND (0.0055)	NT	ND (0.0054)	NT	ND (0.0056)	NT	ND (0.0059)	NT	NT	NT	NT	NT
Endosulfan II	NT	ND (0.0088)	NT	ND (0.0086)	NT	ND (0.0090)	NT	ND (0.0094)	NT	NT	NT	NT	NT
Endosulfan Sulfate	NT	ND (0.0088)	NT	ND (0.0086)	NT	ND (0.0090)	NT	ND (0.0094)	NT	NT	NT	NT	NT
Endrin	NT	ND (0.0088)	NT	ND (0.0086)	NT	ND (0.0090)	NT	ND (0.0094)	NT	NT	NT	NT	NT
ENDRIN KETONE	NT	ND (0.0088)	NT	ND (0.0086)	NT	ND (0.0090)	NT	ND (0.0094)	NT	NT	NT	NT	NT
Heptachlor	NT	ND (0.0055)	NT	ND (0.0054)	NT	ND (0.0056)	NT	ND (0.0059)	NT	NT	NT	NT	NT
Heptachlor Epoxide	NT	ND (0.0055)	NT	ND (0.0054)	NT	ND (0.0056)	NT	ND (0.0059)	NT	NT	NT	NT	NT
HEXACHLOROBENZENE	NT	ND (0.0055)	NT	ND (0.0054)	NT	ND (0.0056)	NT	ND (0.0059)	NT	NT	NT	NT	NT
Methoxychlor	NT	ND (0.055)	NT	ND (0.054)	NT	ND (0.056)	NT	ND (0.059)	NT	NT	NT	NT	NT
SW-846 8082A (mg/Kg dry)													
PCB 1016	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1221	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1232	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1242	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1248	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1221	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1254	NT	ND (0.11)	NT	ND (0.11)	NT	0.11	NT	1.2	NT	NT	NT	NT	NT
PCB 1260	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1262	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1268	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1232	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1242	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1248	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1254	NT	ND (0.11)	NT	ND (0.11)	NT	0.11	NT	1.2	NT	NT	NT	NT	NT
PCB 1260	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1262	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT
PCB 1268	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	NT	NT	NT	NT

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION												
	RY5-TSP1(0-200) Conf.	RY5-TSP1(0-200) Conf.	RY5-TSP1(200-400) Conf.	RY5-TSP1(200-400) Conf.	RY5-TSP1(400-600) Conf.	RY5-TSP1(400-600) Conf.	RY5-TSP1(600-700) Conf.	RY5-TSP1(600-700) Conf.	RY5-TSP-Supp.	RYS Taillings (0-250)	RYS Taillings (250-500)	RYS Taillings (500-750)	RYS Taillings (750-1000)
Sampling Date	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 12:15:00 PM	9/27/2011 1:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 1:00:00 AM
Sample Depth	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	- Feet	0- Feet	- Feet	0- Feet	0- Feet
SW-846 8100 Modified (mg/Kg dry)													
TPH	NT	420	NT	440	NT	330	NT	270	NT	NT	NT	NT	NT
SW-846 8151A													
2,4-D	NT	ND (270)	NT	ND (270)	NT	ND (290)	NT	ND (290)	NT	NT	NT	NT	NT
2,4-DB	NT	ND (270)	NT	ND (270)	NT	ND (290)	NT	ND (290)	NT	NT	NT	NT	NT
2,4,5-TP (SILVEX)	NT	ND (270)	NT	ND (270)	NT	ND (290)	NT	ND (290)	NT	NT	NT	NT	NT
2,4,5-T	NT	ND (270)	NT	ND (270)	NT	ND (290)	NT	ND (290)	NT	NT	NT	NT	NT
DALAPON	NT	ND (270)	NT	ND (270)	NT	ND (290)	NT	ND (290)	NT	NT	NT	NT	NT
DICAMBA	NT	ND (270)	NT	ND (270)	NT	ND (290)	NT	ND (290)	NT	NT	NT	NT	NT
DICHLOROPROP	NT	ND (270)	NT	ND (270)	NT	ND (290)	NT	ND (290)	NT	NT	NT	NT	NT
DINOSEB	NT	ND (270)	NT	ND (270)	NT	ND (290)	NT	ND (290)	NT	NT	NT	NT	NT
SW-846 8260C (mg/Kg dry)													
ACETONE	NT	ND (1.8)	NT	ND (1.8)	NT	ND (2.7)	NT	ND (2.2)	NT	NT	NT	NT	NT
TERT-AMYLMETHYL ETHER	NT	ND (0.018)	NT	ND (0.018)	NT	ND (0.027)	NT	ND (0.022)	NT	NT	NT	NT	NT
BENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
BROMOBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
BROMOCHLOROMETHANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
BROMODICHLOROMETHANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
BROMOFORM	NT	**ND (0.18) ***	NT	**ND (0.18) ***	NT	**ND (0.27) ***	NT	**ND (0.22) ***	NT	NT	NT	NT	NT
BROMOMETHANE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
2-BUTANONE (MEK)	NT	ND (0.73)	NT	ND (0.72)	NT	ND (1.1)	NT	ND (0.89)	NT	NT	NT	NT	NT
N-BUTYLBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
SEC-BUTYLBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
TERT-BUTYLBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
TERT-BUTYLETHYL ETHER	NT	ND (0.018)	NT	ND (0.018)	NT	ND (0.027)	NT	ND (0.022)	NT	NT	NT	NT	NT
CARBON DISULFIDE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.54)	NT	ND (0.44)	NT	NT	NT	NT	NT
CARBON TETRACHLORIDE	NT	ND (0.18)	NT	ND (0.18)	NT	ND (0.27)	NT	ND (0.22)	NT	NT	NT	NT	NT
CHLOROBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
CHLORODIBROMOMETHANE	NT	**ND (0.037) ***	NT	**ND (0.036) ***	NT	**ND (0.054) ***	NT	**ND (0.044) ***	NT	NT	NT	NT	NT
CHLOROETHANE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
CHLOROFORM	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
CHLOROMETHANE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
2-CHLOROTOLUENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
4-CHLOROTOLUENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,2-DIBROMO-3-CHLOROPROPANE	NT	ND (0.18)	NT	ND (0.18)	NT	ND (0.27)	NT	ND (0.22)	NT	NT	NT	NT	NT
EDB	NT	ND (0.018)	NT	ND (0.018)	NT	ND (0.027)	NT	ND (0.022)	NT	NT	NT	NT	NT
DIBROMOMETHANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,2-DICHLOROBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,3-DICHLOROBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,4-DICHLOROBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
DICHLORODIFLUOROMETHANE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
1,1-DICHLOROETHANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,2-DICHLOROETHANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,1-DICHLOROETHYLENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
CIS-1,2-DICHLOROETHYLENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
TRANS-1,2-DICHLOROETHYLENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,2-DICHLOROPROPANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,3-DICHLOROPROPANE	NT	ND (0.018)	NT	ND (0.018)	NT	ND (0.027)	NT	ND (0.022)	NT	NT	NT	NT	NT
2,2-DICHLOROPROPANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,1-DICHLOROPROPENE	NT	**ND (0.073) ***	NT	**ND (0.072) ***	NT	**ND (0.11) ***	NT	**ND (0.089) ***	NT	NT	NT	NT	NT
CIS-1,3-DICHLOROPROPENE	NT	**ND (0.037) ***	NT	**ND (0.036) ***	NT	**ND (0.054) ***	NT	**ND (0.044) ***	NT	NT	NT	NT	NT
TRANS-1,3-DICHLOROPROPENE	NT	**ND (0.073) ***	NT	**ND (0.072) ***	NT	**ND (0.11) ***	NT	**ND (0.089) ***	NT	NT	NT	NT	NT
DIETHYL ETHER	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
DIISOPROPYL ETHER	NT	ND (0.018)	NT	ND (0.018)	NT	ND (0.027)	NT	ND (0.022)	NT	NT	NT	NT	NT
1,4-DIOXANE	NT	**ND (1.8) ***	NT	**ND (1.8) ***	NT	**ND (2.7) ***	NT	**ND (2.2) ***	NT	NT	NT	NT	NT
ETHYLBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
HEXACHLOROBUTADIENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
2-HEXANONE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.54)	NT	ND (0.44)	NT	NT	NT	NT	NT
ISOPROPYLBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
P-ISOPROPYLTOLUENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
MTBE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
METHYLENE CHLORIDE	NT	**ND (0.18) ***	NT	**ND (0.18) ***	NT	**ND (0.27) ***	NT	**ND (0.22) ***	NT	NT	NT	NT	NT

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION												
	RY5-TSP1(0-200) Conf.	RY5-TSP1(0-200) Conf.	RY5-TSP1(200-400) Conf.	RY5-TSP1(200-400) Conf.	RY5-TSP1(400-600) Conf.	RY5-TSP1(400-600) Conf.	RY5-TSP1(600-700) Conf.	RY5-TSP1(600-700) Conf.	RY5-TSP-Supp.	RYS Taillings (0-250)	RYS Taillings (250-500)	RYS Taillings (500-750)	RYS Taillings (750-1000)
Sampling Date	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 12:15:00 PM	9/27/2011 1:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 1:00:00 AM
Sample Depth	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	- Feet	0- Feet	- Feet	0- Feet	0- Feet
MIBK	NT	ND (0.37)	NT	ND (0.36)	NT	**ND (0.54) ***	NT	**ND (0.44) ***	NT	NT	NT	NT	NT
NAPHTHALENE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
N-PROPYLBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
STYRENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,1,1,2-TETRACHLOROETHANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,1,2,2-TETRACHLOROETHANE	NT	**ND (0.018) ***	NT	**ND (0.018) ***	NT	**ND (0.027) ***	NT	**ND (0.022) ***	NT	NT	NT	NT	NT
TETRACHLOROETHYLENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
TETRAHYDROFURAN	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.54)	NT	ND (0.44)	NT	NT	NT	NT	NT
TOLUENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,2,3-TRICHLOROBENZENE	NT	ND (0.18)	NT	ND (0.18)	NT	ND (0.27)	NT	ND (0.22)	NT	NT	NT	NT	NT
1,2,4-TRICHLOROBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,1,1-TRICHLOROETHANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,1,2-TRICHLOROETHANE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
TRICHLOROETHYLENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
TRICHLOROFLUOROMETHANE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
1,2,3-TRICHLOROPROPANE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
1,2,4-TRIMETHYLBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
1,3,5-TRIMETHYLBENZENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
VINYL CHLORIDE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
M/P-XYLENE	NT	ND (0.073)	NT	ND (0.072)	NT	ND (0.11)	NT	ND (0.089)	NT	NT	NT	NT	NT
O-XYLENE	NT	ND (0.037)	NT	ND (0.036)	NT	ND (0.054)	NT	ND (0.044)	NT	NT	NT	NT	NT
SW-846 8270D (mg/Kg dry)													
ACENAPHTHENE	NT	1.8	NT	ND (0.18)	NT	ND (0.19)	NT	0.49	NT	NT	NT	NT	NT
ACENAPHTHYLENE	NT	0.32	NT	0.70	NT	0.29	NT	0.38	NT	NT	NT	NT	NT
ACETOPHENONE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
ANILINE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
ANTHRACENE	NT	6.1	NT	0.78	NT	0.28	NT	1.6	NT	NT	NT	NT	NT
BENZO(A)ANTHRACENE	NT	**9.0**	NT	3.7	NT	1.2	NT	1.9	NT	NT	NT	NT	NT
BENZO(A)PYRENE	NT	**8.0**	NT	**2.5**	NT	0.96	NT	1.3	NT	NT	NT	NT	NT
BENZO(B)FLUORANTHENE	NT	**11**	NT	4.9	NT	2.0	NT	2.7	NT	NT	NT	NT	NT
BENZO(G,H,I)PERYLENE	NT	2.9	NT	1.2	NT	0.50	NT	0.82	NT	NT	NT	NT	NT
BENZO(K)FLUORANTHENE	NT	3.0	NT	1.8	NT	0.75	NT	0.97	NT	NT	NT	NT	NT
BIS(2-CHLOROETHOXY)METHANE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
BIS(2-CHLOROETHYL)ETHER	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
BIS(2-CHLOROISOPROPYL)ETHER	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
BIS(2-ETHYLHEXYL)PHTHALATE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
4-BROMOPHENYL PHENYL ETHER	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
BUTYLBENZYLPHTHALATE	NT	ND (0.72)	NT	ND (0.71)	NT	ND (0.75)	NT	ND (0.77)	NT	NT	NT	NT	NT
4-CHLOROANILINE	NT	ND (0.72)	NT	ND (0.71)	NT	ND (0.75)	NT	ND (0.77)	NT	NT	NT	NT	NT
2-CHLORONAPHTHALENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
2-CHLOROPHENOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
CHRYSENE	NT	8.6	NT	4.1	NT	1.4	NT	2.2	NT	NT	NT	NT	NT
DIBENZ(A,H)ANTHRACENE	NT	**0.81**	NT	0.44	NT	ND (0.19)	NT	0.25	NT	NT	NT	NT	NT
DIBENZOFURAN	NT	1.2	NT	ND (0.36)	NT	ND (0.38)	NT	0.85	NT	NT	NT	NT	NT
DI-N-BUTYLPHTHALATE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
1,2-DICHLOROBENZENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
1,3-DICHLOROBENZENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
1,4-DICHLOROBENZENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
3,3'-DICHLOROBENZIDINE	NT	ND (0.19)	NT	ND (0.18)	NT	ND (0.19)	NT	ND (0.20)	NT	NT	NT	NT	NT
2,4-DICHLOROPHENOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
DIETHYLPHTHALATE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
2,4-DIMETHYLPHENOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
DIMETHYLPHTHALATE	NT	ND (0.72)	NT	ND (0.71)	NT	ND (0.75)	NT	ND (0.77)	NT	NT	NT	NT	NT
2,4-DINITROPHENOL	NT	ND (0.72)	NT	ND (0.71)	NT	ND (0.75)	NT	ND (0.77)	NT	NT	NT	NT	NT
2,4-DINITROTOLUENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
2,6-DINITROTOLUENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
DI-N-OCTYLPHTHALATE	NT	ND (0.72)	NT	ND (0.71)	NT	ND (0.75)	NT	ND (0.77)	NT	NT	NT	NT	NT
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
FLUORANTHENE	NT	19	NT	4.8	NT	3.3	NT	5.2	NT	NT	NT	NT	NT
FLUORENE	NT	2.0	NT	ND (0.18)	NT	ND (0.19)	NT	0.48	NT	NT	NT	NT	NT
HEXACHLOROBENZENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
HEXACHLOROBUTADIENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION												
	RY5-TSP1(0-200) Conf.	RY5-TSP1(0-200) Conf.	RY5-TSP1(200-400) Conf.	RY5-TSP1(200-400) Conf.	RY5-TSP1(400-600) Conf.	RY5-TSP1(400-600) Conf.	RY5-TSP1(600-700) Conf.	RY5-TSP1(600-700) Conf.	RY5-TSP-Supp.	RYS Taillings (0-250)	RYS Taillings (250-500)	RYS Taillings (500-750)	RYS Taillings (750-1000)
Sampling Date	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 11:45:00 AM	8/12/2011 12:15:00 PM	9/27/2011 1:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 12:30:00 PM	9/30/2011 1:00:00 AM
Sample Depth	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	0- Feet	- Feet	0- Feet	- Feet	0- Feet	0- Feet
HEXACHLOROETHANE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
INDENO(1,2,3-CD)PYRENE	NT	3.1	NT	1.5	NT	0.59	NT	0.93	NT	NT	NT	NT	NT
ISOPHORONE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
2-METHYLNAPHTHALENE	NT	0.21	NT	0.19	NT	ND (0.19)	NT	0.27	NT	NT	NT	NT	NT
O-CRESOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
M/P-CRESOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
NAPHTHALENE	NT	ND (0.19)	NT	0.20	NT	ND (0.19)	NT	0.24	NT	NT	NT	NT	NT
NITROBENZENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
2-NITROPHENOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
4-NITROPHENOL	NT	ND (0.72)	NT	ND (0.71)	NT	ND (0.75)	NT	ND (0.77)	NT	NT	NT	NT	NT
PENTACHLOROPHENOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
PHENANTHRENE	NT	**19**	NT	1.6	NT	0.76	NT	7.6	NT	NT	NT	NT	NT
PHENOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
PYRENE	NT	16	NT	3.9	NT	2.7	NT	3.3	NT	NT	NT	NT	NT
1,2,4-TRICHLOROBENZENE	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
2,4,5-TRICHLOROPHENOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
2,4,6-TRICHLOROPHENOL	NT	ND (0.37)	NT	ND (0.36)	NT	ND (0.38)	NT	ND (0.40)	NT	NT	NT	NT	NT
SW-846 9014 (mg/Kg)													
Reactive Cyanide	NT	ND (3.9)	NT	ND (3.9)	NT	ND (4.0)	NT	ND (3.9)	NT	NT	NT	NT	NT
SW-846 9030A (mg/Kg)													
Reactive Sulfide	NT	ND (19)	NT	ND (20)	NT	ND (20)	NT	ND (20)	NT	NT	NT	NT	NT
SW-846 9045C (pH Units)													
pH	NT	10	NT	11	NT	11	NT	11	NT	NT	NT	NT	NT
Tri Chrome Calc. (mg/Kg) Metals Digestion													
Zinc	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

NOTES:
1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
2. ND = Not detected above the lab reporting
3. NT = Not tested.
4. ~ = No Method 1 Standard or UCL available
5. Shaded values exceed the MCP Reportable
6. Bolded values exceed the Method 1 Cleanup

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION												
	RYS TSP 3 (0-200)	RYS-IS-637	RYS-IS-637	RYS-IS-639/SS22	RYS-IS-639/SS22	RYS-IS-692	RYS-IS-692	RYS-IS-693	RYS-IS-693	RYS-IS-694	RYS-IS-694	RYS-IS-HB/GP-24	RYS-IS-HB/GP-24
Sampling Date	10/7/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 2:00:00 PM	9/22/2011 2:00:00 PM
Sample Depth	0- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet
SM 2540G (% Wt)													
% Solidsxxx	NT	89.7	91.5	91.1	95.0	90.4	90.6	86.4	88.0	84.5	85.9	92.8	NT
SM18-20 2510B (µmhos/cm)													
Specific Conductance	NT	35	NT	51	NT	22	NT	36	16	19	NT	13	NT
SM2580 A (mV)													
Oxidation/Reduction Potential	NT	NT	16	NT	60	NT	32	NT	46	NT	33	NT	NT
SW-846 1010 (°F)													
Flashpoint	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT	**> 212 °F**	NT
SW-846 6010C (mg/Kg dry) Metals Digestion													
Arsenic	NT	ND (2.8)	NT	ND (2.7)	NT	13	NT	14	NT	14	NT	ND (2.5)	NT
Barium	NT	160	NT	360	NT	840	NT	**1600**	NT	**1200**	NT	**1500**	NT
Cadmium	NT	0.69	NT	**2.3**	NT	**4.8**	NT	**5.2**	NT	**4.5**	NT	1.2	NT
Chromium	NT	**34**	NT	**49**	NT	**79**	NT	**100**	NT	**71**	NT	28	NT
LEAD	NT	**1400**	NT	**1500**	NT	**12000**	NT	**10000**	NT	**17000**	NT	**1000**	NT
Selenium	NT	ND (5.6)	NT	ND (11)	NT	ND (5.5)	NT	ND (11)	NT	ND (11)	NT	ND (10)	NT
Silver	NT	ND (0.56)	NT	ND (0.55)	NT	ND (0.55)	NT	32	NT	7.3	NT	ND (0.50)	NT
SW-846 6010C (mg/L) 1311 TCLP EXT													
Cadmium	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
Chromium	NT	NT	NT	NT	NT	NT	NT	NT	ND (0.010)	NT	NT	NT	NT
LEAD	0.42	NT	4.4	NT	1.9	NT	460	NT	42	NT	41	NT	2.7
SW-846 7196A (mg/Kg dry)													
chromium +6	NT	NT	8.3	NT	4.6	NT	7.0	NT	5.0	NT	5.2	NT	NT
SW-846 7471B (mg/Kg dry) Metals Digestion													
Mercury	NT	0.11	NT	0.55	NT	0.36	NT	0.32	NT	0.46	NT	0.15	NT
SW-846 8081B (mg/Kg dry)													
Aldrin	NT	ND (0.0056)	NT	ND (0.0054)	NT	ND (0.0054)	NT	ND (0.0057)	NT	ND (0.0058)	NT	ND (0.0053)	NT
ALPHA-BHC	NT	ND (0.0056)	NT	ND (0.0054)	NT	ND (0.0054)	NT	ND (0.0057)	NT	ND (0.0058)	NT	ND (0.0053)	NT
BETA-BHC	NT	ND (0.0056)	NT	ND (0.0054)	NT	ND (0.0054)	NT	ND (0.0057)	NT	ND (0.0058)	NT	ND (0.0053)	NT
DELTA-BHC	NT	ND (0.0056)	NT	ND (0.0054)	NT	ND (0.0054)	NT	ND (0.0057)	NT	ND (0.0058)	NT	ND (0.0053)	NT
GAMMA-BHC (LINDANE)	NT	ND (0.0022)	NT	ND (0.0022)	NT	ND (0.0021)	NT	ND (0.0023)	NT	ND (0.0023)	NT	ND (0.0021)	NT
CHLORDANE	NT	ND (0.022)	NT	ND (0.022)	NT	ND (0.021)	NT	ND (0.023)	NT	ND (0.023)	NT	ND (0.021)	NT
4,4'-DDD	NT	ND (0.0045)	NT	ND (0.0043)	NT	ND (0.0043)	NT	ND (0.0046)	NT	ND (0.0046)	NT	ND (0.0043)	NT
4,4'-DDE	NT	ND (0.0045)	NT	ND (0.0043)	NT	ND (0.0043)	NT	ND (0.0046)	NT	ND (0.0046)	NT	ND (0.0043)	NT
4,4'-DDT	NT	ND (0.0045)	NT	ND (0.0043)	NT	ND (0.0043)	NT	ND (0.0046)	NT	ND (0.0046)	NT	ND (0.0043)	NT
Dieldrin	NT	ND (0.0045)	NT	ND (0.0043)	NT	ND (0.0043)	NT	ND (0.0046)	NT	ND (0.0046)	NT	ND (0.0043)	NT
Endosulfan I	NT	ND (0.0056)	NT	ND (0.0054)	NT	ND (0.0054)	NT	ND (0.0057)	NT	ND (0.0058)	NT	ND (0.0053)	NT
Endosulfan II	NT	ND (0.0089)	NT	ND (0.0087)	NT	ND (0.0086)	NT	ND (0.0092)	NT	ND (0.0093)	NT	ND (0.0085)	NT
Endosulfan Sulfate	NT	ND (0.0089)	NT	ND (0.0087)	NT	ND (0.0086)	NT	ND (0.0092)	NT	ND (0.0093)	NT	ND (0.0085)	NT
Endrin	NT	ND (0.0089)	NT	ND (0.0087)	NT	ND (0.0086)	NT	ND (0.0092)	NT	ND (0.0093)	NT	ND (0.0085)	NT
ENDRIN KETONE	NT	ND (0.0089)	NT	ND (0.0087)	NT	ND (0.0086)	NT	ND (0.0092)	NT	ND (0.0093)	NT	ND (0.0085)	NT
Heptachlor	NT	ND (0.0056)	NT	ND (0.0054)	NT	ND (0.0054)	NT	ND (0.0057)	NT	ND (0.0058)	NT	ND (0.0053)	NT
Heptachlor Epoxide	NT	ND (0.0056)	NT	ND (0.0054)	NT	ND (0.0054)	NT	ND (0.0057)	NT	ND (0.0058)	NT	ND (0.0053)	NT
HEXACHLOROBENZENE	NT	ND (0.0056)	NT	ND (0.0054)	NT	ND (0.0054)	NT	ND (0.0057)	NT	ND (0.0058)	NT	ND (0.0053)	NT
Methoxychlor	NT	ND (0.056)	NT	ND (0.054)	NT	ND (0.054)	NT	ND (0.057)	NT	ND (0.058)	NT	ND (0.053)	NT
SW-846 8082A (mg/Kg dry)													
PCB 1016	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1221	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1232	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1242	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1248	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1221	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1254	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1260	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1262	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1268	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1232	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1242	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1248	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1254	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1260	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1262	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT
PCB 1268	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.11)	NT	ND (0.12)	NT	ND (0.11)	NT

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION												
	RYS TSP 3 (0-200)	RYS-IS-637	RYS-IS-637	RYS-IS-639/SS22	RYS-IS-639/SS22	RYS-IS-692	RYS-IS-692	RYS-IS-693	RYS-IS-693	RYS-IS-694	RYS-IS-694	RYS-IS-HB/GP-24	RYS-IS-HB/GP-24
Sampling Date	10/7/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 2:00:00 PM	9/22/2011 2:00:00 PM
Sample Depth	0- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet
SW-846 8100 Modified (mg/Kg dry)													
TPH	NT	350	NT	170	NT	450	NT	1900	NT	840	NT	260	NT
SW-846 8151A													
2,4-D	NT	ND (55)	NT	ND (57)	NT	ND (55)	NT	ND (55)	NT	ND (59)	NT	ND (56)	NT
2,4-DB	NT	ND (55)	NT	ND (57)	NT	ND (55)	NT	ND (55)	NT	ND (59)	NT	ND (56)	NT
2,4,5-TP (SILVEX)	NT	ND (55)	NT	ND (57)	NT	ND (55)	NT	ND (55)	NT	ND (59)	NT	ND (56)	NT
2,4,5-T	NT	ND (55)	NT	ND (57)	NT	ND (55)	NT	ND (55)	NT	ND (59)	NT	ND (56)	NT
DALAPON	NT	ND (55)	NT	ND (57)	NT	ND (55)	NT	ND (55)	NT	ND (59)	NT	ND (56)	NT
DICAMBA	NT	ND (55)	NT	ND (57)	NT	ND (55)	NT	ND (55)	NT	ND (59)	NT	ND (56)	NT
DICHLOROPROP	NT	ND (55)	NT	ND (57)	NT	ND (55)	NT	ND (55)	NT	ND (59)	NT	ND (56)	NT
DINOSEB	NT	ND (55)	NT	ND (57)	NT	ND (55)	NT	ND (55)	NT	ND (59)	NT	ND (56)	NT
SW-846 8260C (mg/Kg dry)													
ACETONE	NT	ND (3.0)	NT	ND (3.5)	NT	ND (3.3)	NT	ND (3.8)	NT	ND (4.2)	NT	ND (2.6)	NT
TERT-AMYLMETHYL ETHER	NT	ND (0.030)	NT	ND (0.035)	NT	ND (0.033)	NT	ND (0.038)	NT	ND (0.042)	NT	ND (0.026)	NT
BENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	**3.9**	NT	ND (0.052)	NT
BROMOBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
BROMOCHLOROMETHANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
BROMODICHLOROMETHANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
BROMOFORM	NT	**ND (0.30) ***	NT	**ND (0.35) ***	NT	**ND (0.33) ***	NT	**ND (0.38) ***	NT	**ND (0.42) ***	NT	**ND (0.26) ***	NT
BROMOMETHANE	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
2-BUTANONE (MEK)	NT	ND (1.2)	NT	ND (1.4)	NT	ND (1.3)	NT	ND (1.5)	NT	ND (1.7)	NT	ND (1.0)	NT
N-BUTYLBENZENE	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
SEC-BUTYLBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
TERT-BUTYLBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
TERT-BUTYLETHYL ETHER	NT	ND (0.030)	NT	ND (0.035)	NT	ND (0.033)	NT	ND (0.038)	NT	ND (0.042)	NT	ND (0.026)	NT
CARBON DISULFIDE	NT	ND (0.59)	NT	ND (0.69)	NT	ND (0.66)	NT	ND (0.76)	NT	ND (0.83)	NT	ND (0.52)	NT
CARBON TETRACHLORIDE	NT	ND (0.30)	NT	ND (0.35)	NT	ND (0.33)	NT	ND (0.38)	NT	ND (0.42)	NT	ND (0.26)	NT
CHLOROBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
CHLORODIBROMOMETHANE	NT	**ND (0.030) ***	NT	**ND (0.035) ***	NT	**ND (0.033) ***	NT	**ND (0.038) ***	NT	**ND (0.042) ***	NT	**ND (0.026) ***	NT
CHLOROETHANE	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
CHLOROFORM	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
CHLOROMETHANE	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
2-CHLOROTOLUENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
4-CHLOROTOLUENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,2-DIBROMO-3-CHLOROPROPANE	NT	ND (0.30)	NT	ND (0.35)	NT	ND (0.33)	NT	ND (0.38)	NT	ND (0.42)	NT	ND (0.26)	NT
EDB	NT	ND (0.030)	NT	ND (0.035)	NT	ND (0.033)	NT	ND (0.038)	NT	ND (0.042)	NT	ND (0.026)	NT
DIBROMOMETHANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,2-DICHLOROBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,3-DICHLOROBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,4-DICHLOROBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
DICHLORODIFLUOROMETHANE	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
1,1-DICHLOROETHANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,2-DICHLOROETHANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,1-DICHLOROETHYLENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
CIS-1,2-DICHLOROETHYLENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
TRANS-1,2-DICHLOROETHYLENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,2-DICHLOROPROPANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,3-DICHLOROPROPANE	NT	ND (0.030)	NT	ND (0.035)	NT	ND (0.033)	NT	ND (0.038)	NT	ND (0.042)	NT	ND (0.026)	NT
2,2-DICHLOROPROPANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,1-DICHLOROPROPENE	NT	**ND (0.12) ***	NT	**ND (0.14) ***	NT	**ND (0.13) ***	NT	**ND (0.15) ***	NT	**ND (0.17) ***	NT	**ND (0.10) ***	NT
CIS-1,3-DICHLOROPROPENE	NT	**ND (0.030) ***	NT	**ND (0.035) ***	NT	**ND (0.033) ***	NT	**ND (0.038) ***	NT	**ND (0.042) ***	NT	**ND (0.026) ***	NT
TRANS-1,3-DICHLOROPROPENE	NT	**ND (0.030) ***	NT	**ND (0.035) ***	NT	**ND (0.033) ***	NT	**ND (0.038) ***	NT	**ND (0.042) ***	NT	**ND (0.026) ***	NT
DIETHYL ETHER	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
DIISOPROPYL ETHER	NT	ND (0.030)	NT	ND (0.035)	NT	ND (0.033)	NT	ND (0.038)	NT	ND (0.042)	NT	ND (0.026)	NT
1,4-DIOXANE	NT	**ND (3.0) ***	NT	**ND (3.5) ***	NT	**ND (3.3) ***	NT	**ND (3.8) ***	NT	**ND (4.2) ***	NT	**ND (2.6) ***	NT
ETHYLBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
HEXACHLOROBUTADIENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
2-HEXANONE	NT	ND (0.59)	NT	ND (0.69)	NT	ND (0.66)	NT	ND (0.76)	NT	ND (0.83)	NT	ND (0.52)	NT
ISOPROPYLBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
P-ISOPROPYLTOLUENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
MTBE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
METHYLENE CHLORIDE	NT	**ND (0.30) ***	NT	**ND (0.35) ***	NT	**ND (0.33) ***	NT	**ND (0.38) ***	NT	**ND (0.42) ***	NT	**ND (0.26) ***	NT

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION												
	RYS TSP 3 (0-200)	RYS-IS-637	RYS-IS-637	RYS-IS-639/SS22	RYS-IS-639/SS22	RYS-IS-692	RYS-IS-692	RYS-IS-693	RYS-IS-693	RYS-IS-694	RYS-IS-694	RYS-IS-HB/GP-24	RYS-IS-HB/GP-24
Sampling Date	10/7/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 2:00:00 PM	9/22/2011 2:00:00 PM
Sample Depth	0- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet
MIBK	NT	**ND (0.59) ***	NT	**ND (0.69) ***	NT	**ND (0.66) ***	NT	**ND (0.76) ***	NT	**ND (0.83) ***	NT	**ND (0.52) ***	NT
NAPHTHALENE	NT	ND (0.59)	NT	ND (0.69)	NT	ND (0.66)	NT	ND (0.76)	NT	ND (0.83)	NT	ND (0.52)	NT
N-PROPYLBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
STYRENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,1,1,2-TETRACHLOROETHANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,1,2,2-TETRACHLOROETHANE	NT	**ND (0.030) ***	NT	**ND (0.035) ***	NT	**ND (0.033) ***	NT	**ND (0.038) ***	NT	**ND (0.042) ***	NT	**ND (0.026) ***	NT
TETRACHLOROETHYLENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
TETRAHYDROFURAN	NT	ND (0.24)	NT	ND (0.28)	NT	ND (0.27)	NT	ND (0.30)	NT	ND (0.33)	NT	ND (0.21)	NT
TOLUENE	NT	ND (0.059)	NT	ND (0.069)	NT	0.11	NT	ND (0.076)	NT	0.086	NT	ND (0.052)	NT
1,2,3-TRICHLOROBENZENE	NT	ND (0.30)	NT	ND (0.35)	NT	ND (0.33)	NT	ND (0.38)	NT	ND (0.42)	NT	ND (0.26)	NT
1,2,4-TRICHLOROBENZENE	NT	ND (0.30)	NT	ND (0.35)	NT	ND (0.33)	NT	ND (0.38)	NT	ND (0.42)	NT	ND (0.26)	NT
1,1,1-TRICHLOROETHANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,1,2-TRICHLOROETHANE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
TRICHLOROETHYLENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
TRICHLOROFLUOROMETHANE	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
1,2,3-TRICHLOROPROPANE	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
1,2,4-TRIMETHYLBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	0.13	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
1,3,5-TRIMETHYLBENZENE	NT	ND (0.059)	NT	ND (0.069)	NT	ND (0.066)	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
VINYL CHLORIDE	NT	ND (0.12)	NT	ND (0.14)	NT	ND (0.13)	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
M/P-XYLENE	NT	ND (0.12)	NT	ND (0.14)	NT	0.15	NT	ND (0.15)	NT	ND (0.17)	NT	ND (0.10)	NT
O-XYLENE	NT	ND (0.059)	NT	ND (0.069)	NT	0.074	NT	ND (0.076)	NT	ND (0.083)	NT	ND (0.052)	NT
SW-846 8270D (mg/Kg dry)													
ACENAPHTHENE	NT	ND (0.19)	NT	ND (0.18)	NT	ND (0.19)	NT	ND (0.20)	NT	ND (0.80)	NT	ND (0.18)	NT
ACENAPHTHYLENE	NT	ND (0.19)	NT	ND (0.18)	NT	ND (0.19)	NT	ND (0.20)	NT	ND (0.80)	NT	ND (0.18)	NT
ACETOPHENONE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
ANILINE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
ANTHRACENE	NT	ND (0.19)	NT	ND (0.18)	NT	ND (0.19)	NT	0.74	NT	1.3	NT	ND (0.18)	NT
BENZO(A)ANTHRACENE	NT	0.23	NT	0.82	NT	0.44	NT	3.0	NT	4.2	NT	0.56	NT
BENZO(A)PYRENE	NT	0.19	NT	0.73	NT	0.37	NT	**2.4**	NT	**2.7**	NT	0.43	NT
BENZO(B)FLUORANTHENE	NT	0.37	NT	1.5	NT	0.63	NT	3.7	NT	4.7	NT	0.87	NT
BENZO(G,H,I)PERYLENE	NT	ND (0.19)	NT	0.35	NT	0.22	NT	0.69	NT	1.4	NT	ND (0.18)	NT
BENZO(K)FLUORANTHENE	NT	ND (0.19)	NT	0.52	NT	0.22	NT	1.5	NT	2.0	NT	0.31	NT
BIS(2-CHLOROETHOXY)METHANE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
BIS(2-CHLOROETHYL)ETHER	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
BIS(2-CHLOROISOPROPYL)ETHER	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
BIS(2-ETHYLHEXYL)PHTHALATE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
4-BROMOPHENYL PHENYL ETHER	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
BUTYLBENZYLPHTHALATE	NT	ND (0.73)	NT	ND (0.72)	NT	ND (0.73)	NT	ND (0.76)	NT	ND (3.1)	NT	ND (0.71)	NT
4-CHLOROANILINE	NT	ND (0.73)	NT	ND (0.72)	NT	ND (0.73)	NT	ND (0.76)	NT	**ND (3.1) ***	NT	ND (0.71)	NT
2-CHLORONAPHTHALENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
2-CHLOROPHENOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
CHRYSENE	NT	0.41	NT	1.0	NT	0.71	NT	3.2	NT	4.7	NT	0.81	NT
DIBENZ(A,H)ANTHRACENE	NT	ND (0.19)	NT	ND (0.18)	NT	ND (0.19)	NT	ND (0.20)	NT	**ND (0.80) ***	NT	ND (0.18)	NT
DIBENZOFURAN	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
DI-N-BUTYLPHTHALATE	NT	ND (0.38)	NT	0.97	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
1,2-DICHLOROBENZENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
1,3-DICHLOROBENZENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
1,4-DICHLOROBENZENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
3,3'-DICHLOROBENZIDINE	NT	ND (0.19)	NT	ND (0.18)	NT	ND (0.19)	NT	ND (0.20)	NT	ND (0.80)	NT	ND (0.18)	NT
2,4-DICHLOROPHENOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
DIETHYLPHTHALATE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
2,4-DIMETHYLPHENOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
DIMETHYLPHTHALATE	NT	ND (0.73)	NT	ND (0.72)	NT	ND (0.73)	NT	ND (0.76)	NT	ND (3.1)	NT	ND (0.71)	NT
2,4-DINITROPHENOL	NT	ND (0.73)	NT	ND (0.72)	NT	ND (0.73)	NT	ND (0.76)	NT	**ND (3.1) ***	NT	ND (0.71)	NT
2,4-DINITROTOLUENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
2,6-DINITROTOLUENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
DI-N-OCTYLPHTHALATE	NT	ND (0.73)	NT	ND (0.72)	NT	ND (0.73)	NT	ND (0.76)	NT	ND (3.1)	NT	ND (0.71)	NT
1,2-DIPHENYLHYDRAZINE (AZOBENZENE)	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
FLUORANTHENE	NT	0.31	NT	0.83	NT	0.53	NT	4.7	NT	6.0	NT	0.69	NT
FLUORENE	NT	ND (0.19)	NT	ND (0.18)	NT	ND (0.19)	NT	ND (0.20)	NT	ND (0.80)	NT	ND (0.18)	NT
HEXACHLOROBENZENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
HEXACHLOROBUTADIENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT

Table 1

Summary of Disposal Characterization Data
Readville Yard 5
Industrial Drive
Boston and Dedham, MA
RTN 3-2856

Parameter	SAMPLING LOCATION												
	RYS TSP 3 (0-200)	**RYS-IS-637**	**RYS-IS-637**	**RYS-IS-639/SS22**	**RYS-IS-639/SS22**	**RYS-IS-692**	**RYS-IS-692**	**RYS-IS-693**	**RYS-IS-693**	**RYS-IS-694**	**RYS-IS-694**	**RYS-IS-HB/GP-24**	**RYS-IS-HB/GP-24**
Sampling Date	10/7/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 12:30:00 PM	9/22/2011 2:00:00 PM	9/22/2011 2:00:00 PM
Sample Depth	0- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet	- Feet
HEXACHLOROETHANE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
INDENO(1,2,3-CD)PYRENE	NT	ND (0.19)	NT	0.40	NT	0.23	NT	0.82	NT	1.6	NT	0.20	NT
ISOPHORONE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
2-METHYLNAPHTHALENE	NT	ND (0.19)	NT	ND (0.18)	NT	0.38	NT	0.26	NT	**ND (0.80) ***	NT	ND (0.18)	NT
O-CRESOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
M/P-CRESOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
NAPHTHALENE	NT	ND (0.19)	NT	ND (0.18)	NT	0.22	NT	ND (0.20)	NT	ND (0.80)	NT	ND (0.18)	NT
NITROBENZENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
2-NITROPHENOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
4-NITROPHENOL	NT	ND (0.73)	NT	ND (0.72)	NT	ND (0.73)	NT	ND (0.76)	NT	ND (3.1)	NT	ND (0.71)	NT
PENTACHLOROPHENOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
PHENANTHRENE	NT	0.44	NT	0.62	NT	0.75	NT	2.8	NT	5.5	NT	0.68	NT
PHENOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
PYRENE	NT	0.33	NT	0.88	NT	0.71	NT	2.6	NT	7.3	NT	0.70	NT
1,2,4-TRICHLOROBENZENE	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
2,4,5-TRICHLOROPHENOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	ND (1.6)	NT	ND (0.36)	NT
2,4,6-TRICHLOROPHENOL	NT	ND (0.38)	NT	ND (0.37)	NT	ND (0.37)	NT	ND (0.39)	NT	**ND (1.6) ***	NT	ND (0.36)	NT
SW-846 9014 (mg/Kg)													
Reactive Cyanide	NT	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	NT	ND (3.9)	NT	ND (4.0)	NT	ND (3.9)	NT
SW-846 9030A (mg/Kg)													
Reactive Sulfide	NT	ND (20)	NT	ND (20)	NT	ND (20)	NT	ND (20)	NT	ND (20)	NT	ND (19)	NT
SW-846 9045C (pH Units)													
pH	NT	12	11	11	9.8	7.4	8.1	7.8	8.3	7.5	8.0	7.8	NT
Tri Chrome Calc. (mg/Kg) Metals Digestion													
Zinc	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT

NOTES:
1. An asterisk (*) following a detection limit indicates that the minimum laboratory reporting limit exceeds one or more of the regulatory criteria.
2. ND = Not detected above the lab reporting
3. NT = Not tested.
4. ~ = No Method 1 Standard or UCL available
5. Shaded values exceed the MCP Reportable
6. Bolded values exceed the Method 1 Cleanup

Appendix A

BWSC108 (Unsigned)

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

Release Tracking Number: 3 - 2856

A. SITE LOCATION:

1. Site Name: MBTA READVILLE YARD
2. Street Address: INDUSTRIAL DR
3. City/Town: DEDHAM
4. ZIP Code: 02026-0000
5. ☑ Check here if a Tier Classification Submittal has been provided to DEP for this disposal site.
   - ☐ a. Tier IA
   - ☐ b. Tier IB
   - ☑ c. Tier IC
   - ☐ d. Tier II
6. If applicable, provide the Permit Number: W021916

B. THIS FORM IS BEING USED (check all that apply)

- ☐ 1. Submit a **Phase I Completion Statement**, pursuant to 310 CMR 40.0484.
- ☐ 2. Submit a **Revised Phase I Completion Statement**, pursuant to 310 CMR 40.0484.
- ☐ 3. Submit a **Phase II Scope of Work**, pursuant to 310 CMR 40.0834.
- ☐ 4. Submit an **interim Phase II Report**. This report does not satisfy the response action deadline requirements in 310 CMR 40.0500.
- ☐ 5. Submit a **final Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.
- ☐ 6. Submit a **Revised Phase II Report and Completion Statement**, pursuant to 310 CMR 40.0836.
- ☐ 7. Submit a **Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.
- ☐ 8. Submit a **Revised Phase III Remedial Action Plan and Completion Statement**, pursuant to 310 CMR 40.0862.
- ☐ 9. Submit a **Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.
- ☐ 10. Submit a **Modified Phase IV Remedy Implementation Plan**, pursuant to 310 CMR 40.0874.
- ☐ 11. Submit an **As-Built Construction Report**, pursuant to 310 CMR 40.0875.
- ☑ 12. Submit a **Phase IV Status Report**, pursuant to 310 CMR 40.0877.
- ☐ 13. Submit a **Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

Specify the outcome of Phase IV activities: (check one)

- ☐ a. Phase V Operation, Maintenance or Monitoring of the Comprehensive Remedial Action is necessary to achieve a Response Action Outcome.
- ☐ b. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.
- ☐ c. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) has been or will be submitted to DEP.
- ☐ d. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) has been or will be submitted to DEP.

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

B. THIS FORM IS BEING USED TO (cont.):(check all that apply)

☐ 14. Submit a **Revised Phase IV Completion Statement**, pursuant to 310 CMR 40.0878 and 40.0879.

☐ 15. Submit a **Phase V Status Report**, pursuant to 310 CMR 40.0892.

☐ 16. Submit a **Remedial Monitoring Report**. (This report can only be submitted through eDEP.)

a. Type of Report: (check one) ☐ i. Initial Report ☐ ii. Interim Report ☐ iii. Final Report

b. Frequency of Submittal: (check all that apply)

☐ i. A Remedial Monitoring Report(s) submitted monthly to address an Imminent Hazard.

☐ ii. A Remedial Monitoring Report(s) submitted monthly to address a Condition of Substantial Release Migration.

☐ iii. A Remedial Monitoring Report(s) submitted concurrent with a Status Report.

c. Status of Site: (check one) ☐ i. Phase IV ☐ ii. Phase V ☐ iii. Remedy Operation Status ☐ iv. Class C RAO

d. Number of Remedial Systems and/or Monitoring Programs: _____

A separate BWSC108A, CRA Remedial Monitoring Report, must be filled out for each Remedial System and/or Monitoring Program addressed by this transmittal form.

☐ 17. Submit a **Remedy Operation Status**, pursuant to 310 CMR 40.0893.

☐ 18. Submit a **Status Report to maintain a Remedy Operation Status**, pursuant to 310 CMR 40.0893(2).

☐ 19. Submit a **Transfer and/or a Modification of Persons Maintaining a Remedy Operation Status (ROS)** , pursuant to 310 CMR 40.0893(5) (check one, or both, if applicable).

☐ a. Submit a Transfer of Persons Maintaining an ROS (the transferee should be the person listed in Section D, "Person Undertaking Response Actions").

☐ b. Submit a Modification of Persons Maintaining an ROS (the primary representative should be the person listed in Section D, "Person Undertaking Response Actions").

c. Number of Persons Maintaining an ROS not including the primary representative: _____

☐ 20. Submit a **Termination of a Remedy Operation Status**, pursuant to 310 CMR 40.0893(6).(check one)

☐ a. Submit a notice indicating ROS performance standards have not been met. A plan and timetable pursuant to 310 CMR 40.0893(6)(b) for resuming the ROS are attached.

☐ b. Submit a notice of Termination of ROS.

☐ 21. Submit a **Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

Specify the outcome of Phase V activities: (check one)

☐ a. The requirements of a Class A Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement (BWSC104) will be submitted to DEP.

☐ b. The requirements of a Class C Response Action Outcome have been met. No additional Operation, Maintenance or Monitoring is necessary to ensure the integrity of the Response Action Outcome. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ c. The requirements of a Class C Response Action Outcome have been met. Further Operation, Maintenance or Monitoring of the remedial action is necessary to ensure that conditions are maintained and/or that further progress is made toward a Permanent Solution. A completed Response Action Outcome Statement and Report (BWSC104) will be submitted to DEP.

☐ 22. Submit a **Revised Phase V Completion Statement**, pursuant to 310 CMR 40.0894.

☐ 23. Submit a **Post-Class C Response Action Outcome Status Report**, pursuant to 310 CMR 40.0898.

C. LSP SIGNATURE AND STAMP:

I attest under the pains and penalties of perjury that I have personally examined and am familiar with this transmittal form, including any and all documents accompanying this submittal. In my professional opinion and judgment based upon application of (i) the standard of care in 309 CMR 4.02(1), (ii) the applicable provisions of 309 CMR 4.02(2) and (3), and 309 CMR 4.03(2), and (iii) the provisions of 309 CMR 4.03(3), to the best of my knowledge, information and belief,

> *if Section B indicates that a* ***Phase I, Phase II, Phase III, Phase IV or Phase V Completion Statement*** *and/or a* ***Termination of a Remedy Operation Status*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed and implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that a* ***Phase II Scope of Work*** *or a* ***Phase IV Remedy Implementation Plan*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) has (have) been developed in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal;

> *if Section B indicates that an* ***As-Built Construction Report****, a* ***Remedy Operation Status****, a* ***Phase IV, Phase V or Post-Class C RAO Status Report,*** *a* ***Status Report to Maintain a Remedy Operation Status,*** *a* ***Transfer or Modification of Persons Maintaining a Remedy Operation Status*** *and/or a* ***Remedial Monitoring Report*** *is being submitted*, the response action(s) that is (are) the subject of this submittal (i) is (are) being implemented in accordance with the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, (ii) is (are) appropriate and reasonable to accomplish the purposes of such response action(s) as set forth in the applicable provisions of M.G.L. c. 21E and 310 CMR 40.0000, and (iii) comply(ies) with the identified provisions of all orders, permits, and approvals identified in this submittal.

I am aware that significant penalties may result, including, but not limited to, possible fines and imprisonment, if I submit information which I know to be false, inaccurate or materially incomplete.

1. LSP #: **5371**

2. First Name: **ELISSA J** 3. Last Name: **BROWN**

4. Telephone: **(978) 905-2134** 5. Ext.: 6. FAX: **(978) 905-2101**

7. Signature:

8. Date: (mm/dd/yyyy)

9. LSP Stamp:

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number
3 - 2856

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

D. PERSON UNDERTAKING RESPONSE ACTIONS:

1. Check all that apply: ☐ a. change in contact name ☐ b. change of address ☐ c. change in the person undertaking response actions

2. Name of Organization: **MASSACHUSETTS BAY TRANSPORTATION AUTHORITY**

3. Contact First Name: **DEBRA** 4. Last Name: **DARBY**

5. Street: **10 PARK PLAZA ROOM 6720** 6. Title:

7. City/Town: **BOSTON** 8. State: **MA** 9. ZIP Code: **02116-0000**

10. Telephone: **(617) 222-3169** 11. Ext.: 12. FAX: **(617) 222-1557**

E. RELATIONSHIP TO SITE OF PERSON UNDERTAKING RESPONSE ACTIONS: ☐ Check here to change relationship

☑ 1. RP or PRP ☑ a. Owner ☐ b. Operator ☐ c. Generator ☐ d. Transporter

☐ e. Other RP or PRP Specify:

☐ 2. Fiduciary, Secured Lender or Municipality with Exempt Status (as defined by M.G.L. c. 21E, s. 2)

☐ 3. Agency or Public Utility on a Right of Way (as defined by M.G.L. c. 21E, s. 5(j))

☐ 4. Any Other Person Undertaking Response Actions Specify Relationship:

F. REQUIRED ATTACHMENT AND SUBMITTALS:

☑ 1. Check here if the Response Action(s) on which this opinion is based, if any, are (were) subject to any order(s), permit(s) and/or approval(s) issued by DEP or EPA. If the box is checked, you MUST attach a statement identifying the applicable provisions thereof.

☐ 2. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the submittal of any Phase Reports to DEP.

☐ 3. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase III Remedial Action Plan.

☐ 4. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of the availability of a Phase IV Remedy Implementation Plan.

☑ 5. Check here to certify that the Chief Municipal Officer and the Local Board of Health have been notified of any field work involving the implementation of a Phase IV Remedial Action.

☐ 6. If submitting a Transfer of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for the person making this submittal (transferee) is attached.

☐ 7. If submitting a Modification of a Remedy Operation Status (as per 310 CMR 40.0893(5)), check here to certify that a statement detailing the compliance history for each new person making this submittal is attached.

☐ 8. Check here if any non-updatable information provided on this form is incorrect, e.g. Site Name. Send corrections to: BWSC.eDEP@state.ma.us.

☑ 9. Check here to certify that the LSP Opinion containing the material facts, data, and other information is attached.

Massachusetts Department of Environmental Protection
Bureau of Waste Site Cleanup

BWSC108

Release Tracking Number
3 - 2856

COMPREHENSIVE RESPONSE ACTION TRANSMITTAL FORM & PHASE I COMPLETION STATEMENT

Pursuant to 310 CMR 40.0484 (Subpart D) and 40.0800 (Subpart H)

G. CERTIFICATION OF PERSON UNDERTAKING RESPONSE ACTIONS:

1. I, _____ , attest under the pains and penalties of perjury (i) that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying this transmittal form, (ii) that, based on my inquiry of those individuals immediately responsible for obtaining the information, the material information contained in this submittal is, to the best of my knowledge and belief, true, accurate and complete, and (iii) that I am fully authorized to make this attestation on behalf of the entity legally responsible for this submittal. I/the person or entity on whose behalf this submittal is made am/is aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information.

>*if Section B indicates that this is a* **Modification of a Remedy Operation Status (ROS)**, I attest under the pains and penalties of perjury that I am fully authorized to act on behalf of all persons performing response actions under the ROS as stated in 310 CMR 40.0893(5)(d) to receive oral and written correspondence from MassDEP with respect to performance of response actions under the ROS, and to receive a statement of fee amount as per 4.03(3).

I understand that any material received by the Primary Representative from MassDEP shall be deemed received by all the persons perform ing response actions under the ROS, and I am aware that there are significant penalties, including, but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate or incomplete information.

2. By: _____ 3. Title: _____

Signature

4. For: **MASSACHUSETTS BAY TRANSPORTATION AUTHORITY** 5. Date: _____

(Name of person or entity recorded in Section D) (mm/dd/yyyy)

☐ 6. Check here if the address of the person providing certification is different from address recorded in Section D.

7. Street: _____

8. City/Town: _____ 9. State: _____ 10. ZIP Code: _____

11. Telephone: _____ 12. Ext.: _____ 13. FAX: _____

YOU ARE SUBJECT TO AN ANNUAL COMPLIANCE ASSURANCE FEE OF UP TO $10,000 PER BILLABLE YEAR FOR THIS DISPOSAL SITE. YOU MUST LEGIBLY COMPLETE ALL RELEVANT SECTIONS OF THIS FORM OR DEP MAY RETURN THE DOCUMENT AS INCOMPLETE. IF YOU SUBMIT AN INCOMPLETE FORM, YOU MAY BE PENALIZED FOR MISSING A REQUIRED DEADLINE.

Date Stamp (DEP USE ONLY:)

BWSC-108
COMPREHENSIVE RESPONSE ACTION
TRANSMITTAL FORM
MBTA Readville Yard 5 Site
Dedham and Boston, MA
RTN 3-2856

REQUIRED ATTACHMENT AND SUBMITTALS:
F1. Order(s), Permit(s), and/or Approval(s) Issued by the DEP or EPA

Response actions on which this opinion is based were subject to the following order(s), permit(s), and/or approvals(s) issued by the DEP or EPA for this Site:

- On October 10, 1990, DEQE issued a Notice of Potential Release for the Site.
- On September 29, 1999, MassDEP issued a Notice of Responsibility (NOR) and a second Release Tracking Number (RTN) for this Site (3-18777), after reviewing the files and determining that elevated lead concentrations in soil could potentially pose an Imminent Hazard (IH) condition.
- In accordance with the NOR, the MBTA was required to perform an Immediate Response Action (IRA) that included an IH evaluation, fencing of the area of elevated lead in soil, and posting of warning signs. The MBTA installed a fence and warning signs in December 1999. The MassDEP installed additional fencing along the Orphan Line in January 2000.
- Rizzo submitted an IRA Status Report and IH Evaluation to the MassDEP on October 30, 2000, in response to an NOR. The IRA included a Site visit to verify placement and maintenance of fence and warning signs and to collect additional surficial soil samples for lead analyses. Rizzo concluded that an IH did not exist at the Site.
- On July 13, 2001, the MBTA received a petition requesting designation of the Site as a Public Involvement Plan (PIP) Site. In response to the petition, the MBTA and the MassDEP designated the Site as a PIP Site.
- On September 14, 2001, Rizzo submitted a Phase I - Initial Site Investigation (Phase I) to the MassDEP. The Site was Tier Classified as Tier IC (Number W021916) with an NRS score of 413.
- On October 12, 2001, the MBTA and the Attorney General for the Commonwealth of Massachusetts entered into a preliminary injunction agreement that identified several tasks to be expedited. These tasks included covering of the exposed stockpiles within the Exclusion Zone (EX), completion of a groundwater investigation, and preparation of a stockpile characterization plan.

On November 6, 2001, Weston & Sampson completed and submitted an IRA Plan to conduct these three identified tasks.

- Between October and December 2001, the MassDEP conducted an IH Evaluation that included the collection of over 3,000 surficial soil samples for XRF field screening for lead and arsenic. Based on the results of their IH Evaluation, the MassDEP concluded that IH conditions did not exist at the Site under current conditions; however, they identified several zones for additional investigation located immediately outside the Site fence to the north near Milton Street and to the west near Ashcroft Street.

- On December 17, 2001, Weston & Sampson and EST Associates (EST) prepared and submitted a Soil Stockpile Management and Characterization Plan (SSCMP) to the MassDEP. The MassDEP verbally approved the SSCMP in December 2001.

- Between October 2001 and February 2002, the MassDEP conducted an IH Evaluation that included collection of surficial soil samples along a 100-foot to 50-foot grid throughout the Site and immediately outside the fence and an assessment of exposure risks. The MassDEP concluded that an IH condition did not exist in any of the above-listed areas of the Site under current use conditions. In addition, the MassDEP's review of their data indicated that the XRF field screening appeared to overestimate arsenic concentrations relative to standard laboratory analysis.

- The MassDEP conditionally approved the Tier IC permit in a letter dated February 7, 2002.

- While the MassDEP concluded that IH conditions did not exist based on the average detected concentrations within the different areas of the Site, individual samples collected at locations outside of the Site fence north of the Site near Milton Street and west of the Site near Ashcroft Street indicated detected concentrations above IH thresholds. Therefore, the MassDEP requested that the MBTA conduct an IRA to further evaluate these sampling locations. On April 1, 2002, Weston & Sampson marked out a 25-square-foot area around each of the MassDEP's IH evaluation sample locations that had indicated elevated lead and/or arsenic concentrations. These levels were below the MassDEP-established IH thresholds but additional assessment was deemed warranted based on the potential for variability in the sample. In Area 2, a fence was installed approximately 20 feet from the existing fence as an IRA activity.

- Weston & Sampson prepared a draft IRA Plan for additional assessment of the above-mentioned zones, which was submitted to the MassDEP and presented at a PIP meeting on February 27, 2002. The final IRA Plan was submitted to the MassDEP on March 28, 2002. On April 2, 2002, Weston & Sampson commenced sampling activities. Analytical data indicated high concentrations of arsenic along the western fence and lead at two locations along the northern fence. On May 28, 2002, Weston & Sampson conducted additional sampling to evaluate the extent of contamination. Between June 1 and 19, 2002, a new fence was installed approximately 20 feet west of the original western fence.

- On June 6, 2002, Weston & Sampson held a PIP meeting to present the draft Phase II Scope of Work (SOW) for public comment, and to notify the residents of IRA excavation activities outside the northern fence.

- On June 26, 2002, Weston & Sampson documented the IRA excavation of a total of approximately 20 cubic yards of lead-impacted soil from two locations outside the northern fence.

- After the close of the 21-day comment period, Weston & Sampson submitted a Final Phase II SOW to the MassDEP on July 12, 2002, and fieldwork commenced the week of July 22, 2002.

- Weston & Sampson prepared a draft of the Phase II Report and provided it to the MassDEP on November 26, 2002 (the "Draft Phase II Report"). In accordance with PIP, the MBTA established a public comment period for the Draft Phase II Report from December 11, 2002 to January 8, 2003. On December 9, 2002, the MassDEP provided comments on the Draft Phase II Report to Weston & Sampson and, on December 11, 2002, the report was presented at a public meeting. No additional comments from the MassDEP and no comments from the public were received during the public comment period. After the close of the public comment period on January 8, 2003, Weston & Sampson finalized the Draft Phase II Report and incorporated the MassDEP's December 9, 2002 comments into the "Final Phase II Report". The Final Phase II Report was submitted to the MassDEP and the information repositories on January 31, 2003. In accordance with the PIP, all persons on the Site's PIP mailing list were notified by letter dated February 3, 2003 that the Final Phase II Report was available for review at the information repositories.

- A Phase II Addendum, containing MassDEP comments on the Phase II CSA as well as MBTA's responses, was included as an appendix to the Final Phase II Report (see Weston & Sampson, January 2003). As part of the Supplemental Phase II investigation conducted during June and July 2008, additional soil data were collected to supplement the original Weston & Sampson characterization.

- To accommodate the MassDEP's additional comments on the Phase III, and to avoid confusion among the public, the MBTA responded to the MassDEP's comments concerning the Final Phase II Report in the form of a Phase II Addendum – Response to DEP Comments on the Final Phase II Report (the "Phase II Addendum"). The Phase II Addendum was attached as Appendix F to the Final Phase III Report submitted to the MassDEP on April 30, 2003. The Phase III report was submitted to the MassDEP on April 30, 2003.

- A Modified IRA Plan for lead and TPH field screening of stockpiled soil was prepared by Weston & Sampson on September 22, 2003. On October 2, 2003, a Supplemental IRA Plan Modification was prepared by Weston & Sampson and submitted to the MassDEP for comment. Between October 9 and 16, 2003, Weston & Sampson oversaw the segregation and field screening of certain soil cells in stockpiles and surficial samples identified with lead and TPH Upper Concentration Limit (UCL) exceedances. It was reported that 1,000 tons of soil was estimated to contain lead and/or TPH

- The MBTA also responded to the MassDEP's comments concerning the Final Phase II Report in an October 28, 2003 report entitled "Response to DEP's September 17, 2003 Meeting Comments". This letter prepared by Weston & Sampson formalized the comments provided by the MassDEP in the September 17, 2003 meeting and provided additional clarification on certain items contained in the Phase II and Phase III reports. The MassDEP then responded to this October 28, 2003 letter in their Memorandum dated November 20, 2003. In general, the MassDEP indicated that, with respect to the Phase II risk assessment, the majority of issues had been resolved with the exception that additional soil sampling data from areas of the Site and the stockpiles should be included in the risk characterization or an argument should be made that the newer data does not affect the results of the risk characterization, remedial plan, or selected remedial actions.

- In December 2003, Weston & Sampson prepared a follow-up draft IRA Plan Modification for the removal of the lead and TPH UCL classified soil. The IRA Plan Modification was presented at a public meeting on December 11, 2003. On December 23, 2003, Weston & Sampson submitted a Final Draft IRA Plan Modification to the MassDEP for review. On January 26, 2004, MassDEP's comments were incorporated and on February 5, 2004, the MassDEP approved the IRA Plan Modification for the removal of the lead and TPH UCL soils.

- Consent Judgment, Commonwealth of Massachusetts v. Massachusetts Bay Transportation Authority (MBTA), Civil Action, #01-04492E, dated February 23, 2004.

- In a November 8, 2007 letter to the MassDEP, the MBTA provided a Draft Scope of Work (SOW) that detailed the tasks to be performed to finalize the Revised Phase IV RIP at the Site.

- The MassDEP provided comments to the MBTA on the above Draft SOW for the final Phase IV RIP in a letter dated December 4, 2007. In these comments, the MassDEP indicated that some of the work required in order to submit the Revised Phase IV RIP was more appropriately categorized as Phase II and/or Phase III activities. As such, the MassDEP stated that the Revised Phase IV RIP should include a supplement that updates the previously submitted Phase II and Phase III reports. The MBTA responded to the MassDEP comments to the Draft SOW for Phase IV RIP in a letter dated February 28, 2008.

- Preliminary Draft Supplemental Phase II Comprehensive Site Assessment, Phase III Remedial Action Plan and Revised Phase IV Remedy Implementation Plan submitted to MassDEP on September 10, 2008.

- September 8, 2008, a public site status meeting was held at the Knights of Columbus Hall, Dedham, MA.

- MassDEP commented to MBTA on the Preliminary Draft Supplemental Phase II Comprehensive Site Assessment, Phase III Remedial Action Plan and Revised Phase IV Remedy Implementation Plan on October 17, 2008.

- Draft Supplemental Phase II/III Report and Revised Phase IV RIP submitted to MassDEP on November 5, 2008.

- On November 5, 2008, a Public Involvement Plan (PIP) meeting was held at St. Ann's School, Dedham, MA.

- MassDEP Office of Research and Standards (ORS) Memorandum to MBTA dated January 14, 2009 – Readville 5-Yard – ORS Comments on Draft Supplemental Phase II/III and Revised Phase IV RIP submitted November 5, 2008.

- MassDEP commented to MBTA on the Draft Supplemental Phase II/III Report and Revised Phase IV RIP submitted to MassDEP on November 5, 2008 in a letter dated March 23, 2009.

- MBTA responded to MassDEP comments in a letter dated May 8, 2009.

- MBTA responded to public (PIP) comments in a letter dated June 8, 2009.

- On July 7, 2009, representatives from the MBTA, MassDEP, AECOM, and the Office of the Attorney General met to attempt to resolve the comments provided by the MassDEP in the March 23, 2009 letter. As a follow-up to this meeting, a conference call with representatives from the MBTA, MassDEP and AECOM was held on July 16, 2009.

- The final Supplemental Phase II Comprehensive Site Assessment, Phase III Remedial Action Plan and Revised Phase IV Remedy Implementation Plan was submitted to MassDEP on January 15, 2010. A Comments Resolution Letter was included as a cover letter. MassDEP comments on the Draft Supplemental Phase II/III and Revised Phase IV were incorporated into this 2010 report.

- MassDEP issued a letter granting Conditional Approval of the final Supplemental Phase II/III and Revised Phase IV Report on May 10, 2010.

- The MBTA issued a request of bids on September 20, 2010. Bids were received on October 7, 2010, with S&R Enterprises, Inc. identified as the low bidder. The MBTA initiated contract negotiations with the low bidder.

- The Phase IV Status Report #1 was submitted to MassDEP on November 5, 2010.

- A Notice to Proceed to S&R Enterprises, Inc. was issued on March 7, 2011.

- A Site status meeting was held on April 14, 2011 to introduce the community to the contractor selected prior to the start of work.

- The Phase IV Status Report #2 was submitted to MassDEP on May 9, 2011.

Appendix B

Public Notification Documentation

AECOM
2 Technology Park Drive
Westford, Massachusetts 01886

978.589.3000 tel
978.589.3100 fax

May 10, 2011

The Honorable Thomas M. Menino
City of Boston, Mayor's Office
One City Hall Plaza
Boston, Massachusetts 02201-2102

Re: Notification of Initiationof Field Activities
Phase IV Remedy Implementation Plan
MBTA Readville Yard 5 Site
Release Tracking Number 3-2856

Dear Mayor Menino:

In accordance with the Massachusetts Contingency Plan (310 CMR 1403(3)(a)), AECOM, on behalf of the Massachusetts Bay Transportation Authority (MBTA), is hereby notifying your office that field activities associated with the remediation of the Readville Yard 5 Site are anticipated to commence on or about May 19, 2011.

The remediation of hazardous soil at the Readville Yard 5 Site is being conducted by the MBTA to clean the yard for future, continued rail storage and maintenance activities. The field work will consist of soil excavation, screening, stabilization, loading, and off-site recycling. It is anticipated to take approximately four to six months.

Based upon our preliminary characterization of risk, it is assumed that Level D personal protective equipment will be required. We will notify you as soon as practicable if the level of protection for site workers is upgraded during the course of the work to Level C or above.

Should you have any question, please contact Ms. Debra Darby, Site Remediation Specialist, MBTA at (617) 222-3169 or by email at ddarby@mbta.com.

Very truly yours,
AECOM

Elissa Brown, CPG, CHMM, LSP
Senior Program Director

cc: Debra M. Darby, Site Remediation Specialist, MBTA
MA DEP Bureau of Waste Site Cleanup North East Regional Office

AECOM
2 Technology Park Drive
Westford, Massachusetts 01886

978.589.3000 tel
978.589.3100 fax

May 10, 2011

The Honorable Barbara Ferrer
Board of Health, Executive Director
1010 Massachusetts Ave, 2nd Floor
Boston, Massachusetts 02118

Re: Notification of Initiationof Field Activities
Phase IV Remedy Implementation Plan
MBTA Readville Yard 5 Site
Release Tracking Number 3-2856

Dear Dr. Ferrer:

In accordance with the Massachusetts Contingency Plan (310 CMR 1403(3)(a)), AECOM, on behalf of the Massachusetts Bay Transportation Authority (MBTA), is hereby notifying your office that field activities associated with the remediation of the Readville Yard 5 Site are anticipated to commence on or about May 19, 2011.

The remediation of hazardous soil at the Readville Yard 5 Site is being conducted by the MBTA to clean the yard for future, continued rail storage and maintenance activities. The field work will consist of soil excavation, screening, stabilization, loading, and off-site recycling. It is anticipated to take approximately four to six months.

Based upon our preliminary characterization of risk, it is assumed that Level D personal protective equipment will be required. We will notify you as soon as practicable if the level of protection for site workers is upgraded during the course of the work to Level C or above.

Should you have any question, please contact Ms. Debra Darby, Site Remediation Specialist, MBTA at (617) 222-3169 or by email at ddarby@mbta.com.

Very truly yours,
AECOM

Elissa Brown, CPG, CHMM, LSP
Senior Program Director

cc: Debra M. Darby, Site Remediation Specialist, MBTA
MA DEP Bureau of Waste Site Cleanup North East Regional Office

AECOM
2 Technology Park Drive
Westford, Massachusetts 01886

978.589.3000 tel
978.589.3100 fax

May 10, 2011

Mrs. Leanne Jasset
Chairman, Board of Health
Town Administration Building
26 Bryant Street
Dedham, Massachusetts 02026

Re: Notification of Initiationof Field Activities
Phase IV Remedy Implementation Plan
MBTA Readville Yard 5 Site
Release Tracking Number 3-2856

Dear Ms. Jasset:

In accordance with the Massachusetts Contingency Plan (310 CMR 1403(3)(a)), AECOM, on behalf of the Massachusetts Bay Transportation Authority (MBTA), is hereby notifying your office that field activities associated with the remediation of the Readville Yard 5 Site are anticipated to commence on or about May 19, 2011.

The remediation of hazardous soil at the Readville Yard 5 Site is being conducted by the MBTA to clean the yard for future, continued rail storage and maintenance activities. The field work will consist of soil excavation, screening, stabilization, loading, and off-site recycling. It is anticipated to take approximately four to six months.

Based upon our preliminary characterization of risk, it is assumed that Level D personal protective equipment will be required. We will notify you as soon as practicable if the level of protection for site workers is upgraded during the course of the work to Level C or above.

Should you have any question, please contact Ms. Debra Darby, Site Remediation Specialist, MBTA at (617) 222-3169 or by email at ddarby@mbta.com.

Very truly yours,
AECOM



Elissa Brown, CPG, CHMM, LSP
Senior Program Director

cc: Debra M. Darby, Site Remediation Specialist, MBTA
MA DEP Bureau of Waste Site Cleanup North East Regional Office

AECOM
2 Technology Park Drive
Westford, Massachusetts 01886

978.589.3000 tel
978.589.3100 fax

May 10, 2011

Mr. William Keegan
Town Administrator
Town Administration Building
26 Bryant Street
Dedham, Massachusetts 02026

Re: Notification of Initiationof Field Activities
Phase IV Remedy Implementation Plan
MBTA Readville Yard 5 Site
Release Tracking Number 3-2856

Dear Mr. Keegan:

In accordance with the Massachusetts Contingency Plan (310 CMR 1403(3)(a)), AECOM, on behalf of the Massachusetts Bay Transportation Authority (MBTA), is hereby notifying your office that field activities associated with the remediation of the Readville Yard 5 Site are anticipated to commence on or about May 19, 2011.

The remediation of hazardous soil at the Readville Yard 5 Site is being conducted by the MBTA to clean the yard for future, continued rail storage and maintenance activities. The field work will consist of soil excavation, screening, stabilization, loading, and off-site recycling. It is anticipated to take approximately four to six months.

Based upon our preliminary characterization of risk, it is assumed that Level D personal protective equipment will be required. We will notify you as soon as practicable if the level of protection for site workers is upgraded during the course of the work to Level C or above.

Should you have any question, please contact Ms. Debra Darby, Site Remediation Specialist, MBTA at (617) 222-3169 or by email at ddarby@mbta.com.

Very truly yours,
AECOM

Elissa Brown, CPG, CHMM, LSP
Senior Program Director

cc: Debra M. Darby, Site Remediation Specialist, MBTA
MA DEP Bureau of Waste Site Cleanup North East Regional Office

Appendix C

Disposal Characterization Analytical Data

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

August 11, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5
Laboratory Work Order Number: 11H0192

Enclosed are results of analyses for samples received by the laboratory on August 4, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/11/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0192

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-S-10-A	11H0192-01	Soil		SM 2540G	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
RY5-S-21-A	11H0192-02	Soil		SM 2540G	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

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.

For method 6010, only RCRA 8 metals were requested and reported.

SW-846 8081B

Qualifications:

Initial continuing calibration was within method criteria. Closing continuing calibration did not meet method criteria and was biased on the low side. Reanalysis yielded similar calibration non-conformance. Matrix interference is suspected.

Analyte & Samples(s) Qualified:

4,4'-DDT, 4,4'-DDT [2C]

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A]

SW-846 8260C

Qualifications:

Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A], B034925-BLK1, B034925-BS1, B034925-BSD1

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

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, Naphthalene, trans-1,2-Dichloroethylene

B034925-BS1, B034925-BSD1

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:

Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12)

B034925-BS1, B034925-BSD1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Carbon Disulfide, Carbon Tetrachloride, Methylene Chloride, Tetrahydrofuran

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A]

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:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), 2,2-Dichloropropane, Hexachlorobutadiene, Naphthalene

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A], B034925-BLK1, B034925-BS1, B034925-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A], B034925-BLK1, B034925-BS1, B034925-BSD1

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

Analyte & Samples(s) Qualified:

Chloroethane

B034925-BS1, B034925-BSD1

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SW-846 8270D

Qualifications:

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

Analyte & Samples(s) Qualified:

4-Nitrophenol, Fluoranthene, Pentachlorophenol

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A], B035013-BLK1, B035013-BS1, B035013-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 2,4-Dinitrotoluene

B035013-BS1, B035013-BSD1

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 3,3-Dichlorobenzidine

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A], B035013-BLK1, B035013-BS1, B035013-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 2,4-Dinitrotoluene

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A], B035013-BLK1

SW-846 9045C

Qualifications:

Sample received after recommended holding time was exceeded.

Analyte & Samples(s) Qualified:

pH

11H0192-01[RY5-S-10-A], 11H0192-02[RY5-S-21-A]

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

SW-846 8100 Modified

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

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for “difficult analytes” where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.1	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.031	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Benzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Bromobenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Bromochloromethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Bromodichloromethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Bromoform	ND	0.31	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Bromomethane	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
2-Butanone (MEK)	ND	1.2	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
n-Butylbenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
sec-Butylbenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
tert-Butylbenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.031	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Carbon Disulfide	ND	0.61	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Carbon Tetrachloride	ND	0.31	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Chlorobenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Chlorodibromomethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Chloroethane	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Chloroform	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Chloromethane	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
2-Chlorotoluene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
4-Chlorotoluene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.31	mg/Kg dry	1	RL-07, V-05	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2-Dibromoethane (EDB)	ND	0.031	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Dibromomethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2-Dichlorobenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,3-Dichlorobenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,4-Dichlorobenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Dichlorodifluoromethane (Freon 12)	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,1-Dichloroethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2-Dichloroethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,1-Dichloroethylene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
cis-1,2-Dichloroethylene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
trans-1,2-Dichloroethylene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2-Dichloropropane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,3-Dichloropropane	ND	0.031	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
2,2-Dichloropropane	ND	0.061	mg/Kg dry	1	L-02, V-05	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,1-Dichloropropene	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
cis-1,3-Dichloropropene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
trans-1,3-Dichloropropene	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Diethyl Ether	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Diisopropyl Ether (DIPE)	ND	0.031	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,4-Dioxane	ND	3.1	mg/Kg dry	1	V-16	SW-846 8260C	8/5/11	8/6/11 10:01	TJR

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Hexachlorobutadiene	ND	0.061	mg/Kg dry	1	V-05	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
2-Hexanone (MBK)	ND	0.61	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Isopropylbenzene (Cumene)	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
p-Isopropyltoluene (p-Cymene)	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Methyl tert-Butyl Ether (MTBE)	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Methylene Chloride	ND	0.31	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
4-Methyl-2-pentanone (MIBK)	ND	0.61	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Naphthalene	ND	0.12	mg/Kg dry	1	V-05	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
n-Propylbenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Styrene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,1,1,2-Tetrachloroethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,1,2,2-Tetrachloroethane	ND	0.031	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Tetrachloroethylene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Tetrahydrofuran	ND	0.61	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Toluene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2,3-Trichlorobenzene	ND	0.31	mg/Kg dry	1	RL-07, V-05	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2,4-Trichlorobenzene	ND	0.061	mg/Kg dry	1	V-05	SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,1,1-Trichloroethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,1,2-Trichloroethane	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Trichloroethylene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Trichlorofluoromethane (Freon 11)	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2,3-Trichloropropane	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,2,4-Trimethylbenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
1,3,5-Trimethylbenzene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
Vinyl Chloride	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
m+p Xylene	ND	0.12	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR
o-Xylene	ND	0.061	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:01	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	96.3	70-130		8/6/11 10:01
Toluene-d8	100	70-130		8/6/11 10:01
4-Bromofluorobenzene	102	70-130		8/6/11 10:01

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Acenaphthylene	0.36	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Anthracene	0.41	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Benzo(a)anthracene	1.7	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Benzo(a)pyrene	1.5	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Benzo(b)fluoranthene	2.7	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Benzo(g,h,i)perylene	0.66	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Benzo(k)fluoranthene	0.93	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Butylbenzylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Chrysene	2.1	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Dibenz(a,h)anthracene	0.21	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-19	SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Dimethylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	V-19, V-20	SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Di-n-octylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Fluoranthene	3.4	0.18	mg/Kg dry	1	R-05	SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Indeno(1,2,3-cd)pyrene	0.80	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1	R-05	SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1	R-05	SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Phenanthrene	1.3	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
Pyrene	2.7	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 10:30	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	85.1	30-130		8/8/11 10:30
Phenol-d6	85.0	30-130		8/8/11 10:30
Nitrobenzene-d5	71.6	30-130		8/8/11 10:30
2-Fluorobiphenyl	79.2	30-130		8/8/11 10:30
2,4,6-Tribromophenol	106	30-130		8/8/11 10:30
Terphenyl-d14	71.6	30-130		8/8/11 10:30

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
alpha-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
beta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
delta-BHC [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
4,4'-DDT [1]	0.027	0.0043	mg/Kg dry	1	Z-01	SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Endosulfan I [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Endosulfan sulfate [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Endrin ketone [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Heptachlor [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Heptachlor epoxide [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Hexachlorobenzene [1]	ND	0.0053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG
Methoxychlor [1]	ND	0.053	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:12	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	116	30-150		8/9/11 16:12
Decachlorobiphenyl [2]	116	30-150		8/9/11 16:12
Tetrachloro-m-xylene [1]	54.3	30-150		8/9/11 16:12
Tetrachloro-m-xylene [2]	49.0	30-150		8/9/11 16:12

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/5/11	8/9/11 14:25	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	56.9	30-150		8/9/11 14:25
Decachlorobiphenyl [2]	63.7	30-150		8/9/11 14:25
Tetrachloro-m-xylene [1]	61.3	30-150		8/9/11 14:25
Tetrachloro-m-xylene [2]	70.2	30-150		8/9/11 14:25

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	480	180	mg/Kg dry	20		SW-846 8100 Modified	8/9/11	8/9/11 17:05	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	98.9	40-140					8/9/11 17:05

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.7	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:41	OP
Barium	640	2.7	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:41	OP
Cadmium	4.4	0.27	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:41	OP
Chromium	34	0.54	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:41	OP
Lead	1700	0.81	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:41	OP
Mercury	0.38	0.027	mg/Kg dry	1		SW-846 7471B	8/5/11	8/5/11 15:41	CWB
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:41	OP
Silver	1.5	0.54	mg/Kg dry	1		SW-846 6010C	8/8/11	8/9/11 10:39	OP

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	8/5/11	8/5/11 21:00	DEF
pH @19.6°C	6.7		pH Units	1	H-03	SW-846 9045C	8/5/11	8/5/11 8:15	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/5/11	8/9/11 13:27	SBP
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/5/11	8/9/11 14:35	SBP
% Solids	92.6		% Wt	1		SM 2540G	8/5/11	8/6/11 11:38	VAF

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0192-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	51	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
2,4-DB	ND	51	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
2,4,5-TP (Silvex)	ND	51	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
2,4,5-T	ND	51	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
Dalapon	ND	51	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
Dicamba	ND	51	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
Dichloroprop	ND	51	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
Dinoseb	ND	51	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCAA	78	30-150				8/9/11	0:00

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.7	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Benzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Bromobenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Bromochloromethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Bromodichloromethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Bromoform	ND	0.37	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Bromomethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
2-Butanone (MEK)	ND	1.5	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
n-Butylbenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
sec-Butylbenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
tert-Butylbenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Carbon Disulfide	ND	0.73	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Carbon Tetrachloride	ND	0.37	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Chlorobenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Chlorodibromomethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Chloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Chloroform	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Chloromethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
2-Chlorotoluene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
4-Chlorotoluene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.37	mg/Kg dry	1	RL-07, V-05	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2-Dibromoethane (EDB)	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Dibromomethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2-Dichlorobenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,3-Dichlorobenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,4-Dichlorobenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Dichlorodifluoromethane (Freon 12)	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,1-Dichloroethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2-Dichloroethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,1-Dichloroethylene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
cis-1,2-Dichloroethylene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
trans-1,2-Dichloroethylene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2-Dichloropropane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,3-Dichloropropane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
2,2-Dichloropropane	ND	0.073	mg/Kg dry	1	L-02, V-05	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,1-Dichloropropene	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
cis-1,3-Dichloropropene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
trans-1,3-Dichloropropene	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Diethyl Ether	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Diisopropyl Ether (DIPE)	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,4-Dioxane	ND	3.7	mg/Kg dry	1	V-16	SW-846 8260C	8/5/11	8/6/11 10:32	TJR

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Hexachlorobutadiene	ND	0.073	mg/Kg dry	1	V-05	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
2-Hexanone (MBK)	ND	0.73	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Isopropylbenzene (Cumene)	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
p-Isopropyltoluene (p-Cymene)	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Methyl tert-Butyl Ether (MTBE)	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Methylene Chloride	ND	0.37	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
4-Methyl-2-pentanone (MIBK)	ND	0.73	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Naphthalene	ND	0.15	mg/Kg dry	1	V-05	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
n-Propylbenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Styrene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,1,1,2-Tetrachloroethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,1,2,2-Tetrachloroethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Tetrachloroethylene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Tetrahydrofuran	ND	0.73	mg/Kg dry	1	RL-07	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Toluene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2,3-Trichlorobenzene	ND	0.37	mg/Kg dry	1	RL-07, V-05	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2,4-Trichlorobenzene	ND	0.073	mg/Kg dry	1	V-05	SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,1,1-Trichloroethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,1,2-Trichloroethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Trichloroethylene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Trichlorofluoromethane (Freon 11)	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2,3-Trichloropropane	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,2,4-Trimethylbenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
1,3,5-Trimethylbenzene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
Vinyl Chloride	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
m+p Xylene	ND	0.15	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR
o-Xylene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/5/11	8/6/11 10:32	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	93.7	70-130		8/6/11 10:32
Toluene-d8	99.8	70-130		8/6/11 10:32
4-Bromofluorobenzene	101	70-130		8/6/11 10:32

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.20	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Acenaphthylene	0.48	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Anthracene	0.59	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Benzo(a)anthracene	2.9	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Benzo(a)pyrene	2.6	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Benzo(b)fluoranthene	4.2	0.37	mg/Kg dry	2		SW-846 8270D	8/8/11	8/8/11 20:03	BGL
Benzo(g,h,i)perylene	0.97	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Benzo(k)fluoranthene	1.7	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Butylbenzylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Chrysene	3.4	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Dibenz(a,h)anthracene	0.32	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Dibenzofuran	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-19	SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Dimethylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	V-19, V-20	SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1	V-20	SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Di-n-octylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Fluoranthene	5.9	0.37	mg/Kg dry	2	R-05	SW-846 8270D	8/8/11	8/8/11 20:03	BGL
Fluorene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Indeno(1,2,3-cd)pyrene	1.2	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Naphthalene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1	R-05	SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1	R-05	SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Phenanthrene	3.5	0.18	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
Pyrene	7.4	0.37	mg/Kg dry	2		SW-846 8270D	8/8/11	8/8/11 20:03	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/8/11	8/8/11 11:01	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	75.3	30-130		8/8/11 11:01
Phenol-d6	71.3	30-130		8/8/11 11:01
Nitrobenzene-d5	66.1	30-130		8/8/11 11:01
2-Fluorobiphenyl	66.4	30-130		8/8/11 11:01
2,4,6-Tribromophenol	84.2	30-130		8/8/11 11:01
Terphenyl-d14	58.3	30-130		8/8/11 11:01

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Chlordane [1]	ND	0.021	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
4,4'-DDT [1]	ND	0.0043	mg/Kg dry	1	Z-01	SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Endosulfan sulfate [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Endrin ketone [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Hexachlorobenzene [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1		SW-846 8081B	8/5/11	8/9/11 16:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		8/9/11 16:30
Decachlorobiphenyl [2]	111	30-150		8/9/11 16:30
Tetrachloro-m-xylene [1]	60.1	30-150		8/9/11 16:30
Tetrachloro-m-xylene [2]	54.3	30-150		8/9/11 16:30

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG
Aroclor-1254 [2]	2.2	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG
Aroclor-1260 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	2		SW-846 8082A	8/5/11	8/9/11 15:42	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	68.6	30-150		8/9/11 15:42
Decachlorobiphenyl [2]	78.3	30-150		8/9/11 15:42
Tetrachloro-m-xylene [1]	71.7	30-150		8/9/11 15:42
Tetrachloro-m-xylene [2]	82.0	30-150		8/9/11 15:42

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	420	180	mg/Kg dry	20		SW-846 8100 Modified	8/9/11	8/9/11 17:05	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	79.0	40-140					8/9/11 17:05

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	8.6	2.7	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:46	OP
Barium	990	2.7	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:46	OP
Cadmium	9.2	0.27	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:46	OP
Chromium	680	0.55	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:46	OP
Lead	2400	0.82	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:46	OP
Mercury	1.2	0.13	mg/Kg dry	5		SW-846 7471B	8/8/11	8/8/11 15:55	CWB
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:46	OP
Silver	13	0.55	mg/Kg dry	1		SW-846 6010C	8/8/11	8/9/11 10:44	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	8/5/11	8/5/11 21:00	DEF
pH @19.8°C	7.5		pH Units	1	H-03	SW-846 9045C	8/5/11	8/5/11 8:15	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/5/11	8/9/11 13:27	SBP
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/5/11	8/9/11 14:35	SBP
% Solids	92.5		% Wt	1		SM 2540G	8/5/11	8/6/11 11:38	VAF

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0192

Date Received: 8/4/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0192-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	54	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
2,4-DB	ND	54	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
2,4,5-TP (Silvex)	ND	54	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
2,4,5-T	ND	54	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
Dalapon	ND	54	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
Dicamba	ND	54	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
Dichloroprop	ND	54	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET
Dinoseb	ND	54	µg/Kg	1		SW-846 8151	8/8/11	8/9/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCAA	88	30-150				8/9/11	0:00

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11H0192-01 [RY5-S-10-A]	B034946	08/05/11
11H0192-02 [RY5-S-21-A]	B034946	08/05/11

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B035003	50.0	50.0	08/05/11
11H0192-02 [RY5-S-21-A]	B035003	50.0	50.0	08/05/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B035019	1.00	50.0	08/08/11
11H0192-02 [RY5-S-21-A]	B035019	0.983	50.0	08/08/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B034922	0.606	50.0	08/05/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-02 [RY5-S-21-A]	B035016	0.608	50.0	08/08/11

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B034931	10.1	10.0	08/05/11
11H0192-02 [RY5-S-21-A]	B034931	10.1	10.0	08/05/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B034935	10.1	50.0	08/05/11
11H0192-02 [RY5-S-21-A]	B034935	10.1	50.0	08/05/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B035151	30.0	1.00	08/09/11
11H0192-02 [RY5-S-21-A]	B035151	30.0	1.00	08/09/11

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
11H0192-01 [RY5-S-10-A]	B034925	14.2	16.1	1	50	08/05/11
11H0192-02 [RY5-S-21-A]	B034925	11.7	15.9	1	50	08/05/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B035013	30.0	1.00	08/08/11
11H0192-02 [RY5-S-21-A]	B035013	30.0	1.00	08/08/11

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B034998	25.4	250	08/05/11
11H0192-02 [RY5-S-21-A]	B034998	25.6	250	08/05/11

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0192-01 [RY5-S-10-A]	B034999	25.4	250	08/05/11
11H0192-02 [RY5-S-21-A]	B034999	25.6	250	08/05/11

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
11H0192-01 [RY5-S-10-A]	B034989	20.0	08/05/11
11H0192-02 [RY5-S-21-A]	B034989	20.0	08/05/11

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

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B034925 - SW-846 5035										
Blank (B034925-BLK1)				Prepared: 08/05/11 Analyzed: 08/06/11						
Acetone	ND	2.5	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.25	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.50	mg/Kg wet							
Carbon Tetrachloride	ND	0.25	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.050	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							V-05
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							L-02, V-05
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.050	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.10	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-16
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							V-05
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							V-05

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B034925 - SW-846 5035											
Blank (B034925-BLK1)				Prepared: 08/05/11 Analyzed: 08/06/11							
n-Propylbenzene	ND	0.050	mg/Kg wet								
Styrene	ND	0.050	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet								
Tetrachloroethylene	ND	0.050	mg/Kg wet								
Tetrahydrofuran	ND	0.50	mg/Kg wet								
Toluene	ND	0.050	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							V-05	
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							V-05	
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet								
Trichloroethylene	ND	0.050	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet								
Vinyl Chloride	ND	0.10	mg/Kg wet								
m+p Xylene	ND	0.10	mg/Kg wet								
o-Xylene	ND	0.050	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0248*		mg/Kg wet	0.0250		99.4	70-130				
Surrogate: Toluene-d8	*0.0250*		mg/Kg wet	0.0250		100	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0236*		mg/Kg wet	0.0250		94.4	70-130				
LCS (B034925-BS1)				Prepared: 08/05/11 Analyzed: 08/06/11							
Acetone	27.8	11	mg/Kg wet	22.7		123	40-160				†
tert-Amyl Methyl Ether (TAME)	2.21	0.11	mg/Kg wet	2.27		97.3	70-130				
Benzene	2.51	0.23	mg/Kg wet	2.27		111	70-130				
Bromobenzene	2.35	0.23	mg/Kg wet	2.27		104	70-130				
Bromochloromethane	2.65	0.23	mg/Kg wet	2.27		117	70-130				
Bromodichloromethane	2.44	0.23	mg/Kg wet	2.27		108	70-130				
Bromoform	1.99	1.1	mg/Kg wet	2.27		87.9	70-130				
Bromomethane	1.01	0.45	mg/Kg wet	2.27		44.5	40-160			L-14	†
2-Butanone (MEK)	24.0	4.5	mg/Kg wet	22.7		106	40-160				†
n-Butylbenzene	2.09	0.23	mg/Kg wet	2.27		92.0	70-130				
sec-Butylbenzene	2.22	0.23	mg/Kg wet	2.27		97.9	70-130				
tert-Butylbenzene	2.20	0.23	mg/Kg wet	2.27		97.0	70-130				
tert-Butyl Ethyl Ether (TBEE)	1.76	0.11	mg/Kg wet	2.27		77.6	70-130				
Carbon Disulfide	2.61	2.3	mg/Kg wet	2.27		115	70-130				
Carbon Tetrachloride	2.05	1.1	mg/Kg wet	2.27		90.5	70-130				
Chlorobenzene	2.48	0.23	mg/Kg wet	2.27		109	70-130				
Chlorodibromomethane	2.44	0.23	mg/Kg wet	2.27		108	70-130				
Chloroethane	2.07	0.45	mg/Kg wet	2.27		91.2	70-130			V-20	
Chloroform	2.47	0.45	mg/Kg wet	2.27		109	70-130				
Chloromethane	1.51	0.45	mg/Kg wet	2.27		66.4	40-160			L-14	†
2-Chlorotoluene	2.41	0.23	mg/Kg wet	2.27		106	70-130				
4-Chlorotoluene	2.51	0.23	mg/Kg wet	2.27		111	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	2.04	1.1	mg/Kg wet	2.27		89.8	70-130			V-05	
1,2-Dibromoethane (EDB)	2.55	0.11	mg/Kg wet	2.27		113	70-130				
Dibromomethane	2.58	0.23	mg/Kg wet	2.27		114	70-130				
1,2-Dichlorobenzene	2.35	0.23	mg/Kg wet	2.27		104	70-130				
1,3-Dichlorobenzene	2.37	0.23	mg/Kg wet	2.27		104	70-130				
1,4-Dichlorobenzene	2.33	0.23	mg/Kg wet	2.27		103	70-130				

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B034925 - SW-846 5035												
LCS (B034925-BS1)				Prepared: 08/05/11 Analyzed: 08/06/11								
Dichlorodifluoromethane (Freon 12)	1.29	0.45	mg/Kg wet	2.27		57.0		40-160			L-14	†
1,1-Dichloroethane	2.72	0.23	mg/Kg wet	2.27		120		70-130				
1,2-Dichloroethane	2.37	0.23	mg/Kg wet	2.27		104		70-130				
1,1-Dichloroethylene	2.61	0.23	mg/Kg wet	2.27		115		70-130				
cis-1,2-Dichloroethylene	2.19	0.23	mg/Kg wet	2.27		96.4		70-130				
trans-1,2-Dichloroethylene	2.87	0.23	mg/Kg wet	2.27		126		70-130				
1,2-Dichloropropane	2.37	0.23	mg/Kg wet	2.27		105		70-130				
1,3-Dichloropropane	2.43	0.11	mg/Kg wet	2.27		107		70-130				
2,2-Dichloropropane	1.38	0.23	mg/Kg wet	2.27		**60.8**	*	70-130			L-02, V-05	
1,1-Dichloropropene	2.33	0.45	mg/Kg wet	2.27		103		70-130				
cis-1,3-Dichloropropene	1.87	0.23	mg/Kg wet	2.27		82.6		70-130				
trans-1,3-Dichloropropene	2.01	0.45	mg/Kg wet	2.27		88.8		70-130				
Diethyl Ether	2.74	0.45	mg/Kg wet	2.27		121		70-130				
Diisopropyl Ether (DIPE)	2.52	0.11	mg/Kg wet	2.27		111		70-130				
1,4-Dioxane	24.2	11	mg/Kg wet	22.7		107		40-160			V-16	†
Ethylbenzene	2.43	0.23	mg/Kg wet	2.27		107		70-130				
Hexachlorobutadiene	2.04	0.23	mg/Kg wet	2.27		90.2		70-130			V-05	
2-Hexanone (MBK)	23.6	2.3	mg/Kg wet	22.7		104		40-160				†
Isopropylbenzene (Cumene)	2.70	0.23	mg/Kg wet	2.27		119		70-130				
p-Isopropyltoluene (p-Cymene)	2.24	0.23	mg/Kg wet	2.27		98.8		70-130				
Methyl tert-Butyl Ether (MTBE)	2.62	0.23	mg/Kg wet	2.27		116		70-130				
Methylene Chloride	2.74	1.1	mg/Kg wet	2.27		121		70-130				
4-Methyl-2-pentanone (MIBK)	23.8	2.3	mg/Kg wet	22.7		105		40-160				†
Naphthalene	1.58	0.45	mg/Kg wet	2.27		**69.9**	*	70-130			L-07, V-05	
n-Propylbenzene	2.31	0.23	mg/Kg wet	2.27		102		70-130				
Styrene	2.55	0.23	mg/Kg wet	2.27		112		70-130				
1,1,1,2-Tetrachloroethane	2.50	0.23	mg/Kg wet	2.27		110		70-130				
1,1,2,2-Tetrachloroethane	2.36	0.11	mg/Kg wet	2.27		104		70-130				
Tetrachloroethylene	2.30	0.23	mg/Kg wet	2.27		102		70-130				
Tetrahydrofuran	2.07	2.3	mg/Kg wet	2.27		91.5		70-130				
Toluene	2.47	0.23	mg/Kg wet	2.27		109		70-130				
1,2,3-Trichlorobenzene	1.58	1.1	mg/Kg wet	2.27		**69.7**	*	70-130			L-07, V-05	
1,2,4-Trichlorobenzene	1.65	0.23	mg/Kg wet	2.27		72.8		70-130			V-05	
1,1,1-Trichloroethane	2.37	0.23	mg/Kg wet	2.27		105		70-130				
1,1,2-Trichloroethane	2.57	0.23	mg/Kg wet	2.27		113		70-130				
Trichloroethylene	2.41	0.23	mg/Kg wet	2.27		106		70-130				
Trichlorofluoromethane (Freon 11)	2.22	0.45	mg/Kg wet	2.27		98.0		70-130				
1,2,3-Trichloropropane	2.19	0.45	mg/Kg wet	2.27		96.4		70-130				
1,2,4-Trimethylbenzene	2.38	0.23	mg/Kg wet	2.27		105		70-130				
1,3,5-Trimethylbenzene	2.40	0.23	mg/Kg wet	2.27		106		70-130				
Vinyl Chloride	1.83	0.45	mg/Kg wet	2.27		80.7		70-130				
m+p Xylene	5.10	0.45	mg/Kg wet	4.53		112		70-130				
o-Xylene	2.45	0.23	mg/Kg wet	2.27		108		70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0276*		mg/Kg wet	0.0283		97.4		70-130				
Surrogate: Toluene-d8	*0.0292*		mg/Kg wet	0.0283		103		70-130				
Surrogate: 4-Bromofluorobenzene	*0.0279*		mg/Kg wet	0.0283		98.6		70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B034925 - SW-846 5035												
LCS Dup (B034925-BSD1)				Prepared: 08/05/11 Analyzed: 08/06/11								
Acetone	29.6	11	mg/Kg wet	22.7		130		40-160	6.01	20		†
tert-Amyl Methyl Ether (TAME)	2.28	0.11	mg/Kg wet	2.27		101		70-130	3.53	20		
Benzene	2.61	0.23	mg/Kg wet	2.27		115		70-130	3.89	20		
Bromobenzene	2.42	0.23	mg/Kg wet	2.27		107		70-130	3.04	20		
Bromochloromethane	2.84	0.23	mg/Kg wet	2.27		125		70-130	7.03	20		
Bromodichloromethane	2.54	0.23	mg/Kg wet	2.27		112		70-130	4.10	20		
Bromoform	2.00	1.1	mg/Kg wet	2.27		88.4		70-130	0.567	20		
Bromomethane	0.986	0.45	mg/Kg wet	2.27		43.5		40-160	2.27	20	L-14	†
2-Butanone (MEK)	24.6	4.5	mg/Kg wet	22.7		108		40-160	2.25	20		†
n-Butylbenzene	2.19	0.23	mg/Kg wet	2.27		96.8		70-130	5.08	20		
sec-Butylbenzene	2.28	0.23	mg/Kg wet	2.27		101		70-130	2.72	20		
tert-Butylbenzene	2.29	0.23	mg/Kg wet	2.27		101		70-130	3.94	20		
tert-Butyl Ethyl Ether (TBEE)	1.91	0.11	mg/Kg wet	2.27		84.4		70-130	8.40	20		
Carbon Disulfide	2.44	2.3	mg/Kg wet	2.27		108		70-130	6.72	20		
Carbon Tetrachloride	2.21	1.1	mg/Kg wet	2.27		97.4		70-130	7.34	20		
Chlorobenzene	2.62	0.23	mg/Kg wet	2.27		116		70-130	5.61	20		
Chlorodibromomethane	2.55	0.23	mg/Kg wet	2.27		113		70-130	4.63	20		
Chloroethane	2.45	0.45	mg/Kg wet	2.27		108		70-130	17.1	20	V-20	
Chloroform	2.52	0.45	mg/Kg wet	2.27		111		70-130	2.09	20		
Chloromethane	1.48	0.45	mg/Kg wet	2.27		65.3		40-160	1.67	20	L-14	†
2-Chlorotoluene	2.45	0.23	mg/Kg wet	2.27		108		70-130	1.87	20		
4-Chlorotoluene	2.57	0.23	mg/Kg wet	2.27		113		70-130	2.14	20		
1,2-Dibromo-3-chloropropane (DBCP)	2.02	1.1	mg/Kg wet	2.27		89.1		70-130	0.783	20	V-05	
1,2-Dibromoethane (EDB)	2.60	0.11	mg/Kg wet	2.27		115		70-130	1.85	20		
Dibromomethane	2.61	0.23	mg/Kg wet	2.27		115		70-130	1.05	20		
1,2-Dichlorobenzene	2.31	0.23	mg/Kg wet	2.27		102		70-130	1.56	20		
1,3-Dichlorobenzene	2.40	0.23	mg/Kg wet	2.27		106		70-130	1.62	20		
1,4-Dichlorobenzene	2.37	0.23	mg/Kg wet	2.27		104		70-130	1.74	20		
Dichlorodifluoromethane (Freon 12)	1.32	0.45	mg/Kg wet	2.27		58.3		40-160	2.26	20	L-14	†
1,1-Dichloroethane	2.82	0.23	mg/Kg wet	2.27		124		70-130	3.61	20		
1,2-Dichloroethane	2.49	0.23	mg/Kg wet	2.27		110		70-130	5.04	20		
1,1-Dichloroethylene	2.64	0.23	mg/Kg wet	2.27		116		70-130	1.12	20		
cis-1,2-Dichloroethylene	2.38	0.23	mg/Kg wet	2.27		105		70-130	8.35	20		
trans-1,2-Dichloroethylene	2.96	0.23	mg/Kg wet	2.27		**131**	*	70-130	3.34	20	L-07	
1,2-Dichloropropane	2.44	0.23	mg/Kg wet	2.27		108		70-130	2.64	20		
1,3-Dichloropropane	2.46	0.11	mg/Kg wet	2.27		109		70-130	1.39	20		
2,2-Dichloropropane	1.44	0.23	mg/Kg wet	2.27		**63.6**	*	70-130	4.50	20	L-02, V-05	
1,1-Dichloropropene	2.45	0.45	mg/Kg wet	2.27		108		70-130	5.12	20		
cis-1,3-Dichloropropene	1.88	0.23	mg/Kg wet	2.27		83.1		70-130	0.603	20		
trans-1,3-Dichloropropene	2.04	0.45	mg/Kg wet	2.27		89.8		70-130	1.12	20		
Diethyl Ether	2.73	0.45	mg/Kg wet	2.27		121		70-130	0.166	20		
Diisopropyl Ether (DIPE)	2.54	0.11	mg/Kg wet	2.27		112		70-130	0.896	20		
1,4-Dioxane	23.9	11	mg/Kg wet	22.7		106		40-160	0.905	20	V-16	†
Ethylbenzene	2.55	0.23	mg/Kg wet	2.27		113		70-130	5.10	20		
Hexachlorobutadiene	2.00	0.23	mg/Kg wet	2.27		88.3		70-130	2.13	20	V-05	
2-Hexanone (MBK)	24.1	2.3	mg/Kg wet	22.7		106		40-160	2.05	20		†
Isopropylbenzene (Cumene)	2.76	0.23	mg/Kg wet	2.27		122		70-130	2.49	20		
p-Isopropyltoluene (p-Cymene)	2.32	0.23	mg/Kg wet	2.27		102		70-130	3.38	20		
Methyl tert-Butyl Ether (MTBE)	2.64	0.23	mg/Kg wet	2.27		116		70-130	0.517	20		
Methylene Chloride	2.78	1.1	mg/Kg wet	2.27		123		70-130	1.23	20		
4-Methyl-2-pentanone (MIBK)	24.1	2.3	mg/Kg wet	22.7		106		40-160	1.15	20		†
Naphthalene	1.64	0.45	mg/Kg wet	2.27		72.2		70-130	3.24	20	V-05	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B034925 - SW-846 5035										
LCS Dup (B034925-BSD1)				Prepared: 08/05/11 Analyzed: 08/06/11						
n-Propylbenzene	2.42	0.23	mg/Kg wet	2.27		107	70-130	4.51	20	
Styrene	2.66	0.23	mg/Kg wet	2.27		117	70-130	4.26	20	
1,1,1,2-Tetrachloroethane	2.45	0.23	mg/Kg wet	2.27		108	70-130	1.83	20	
1,1,2,2-Tetrachloroethane	2.33	0.11	mg/Kg wet	2.27		103	70-130	1.55	20	
Tetrachloroethylene	2.43	0.23	mg/Kg wet	2.27		107	70-130	5.27	20	
Tetrahydrofuran	2.03	2.3	mg/Kg wet	2.27		89.5	70-130	2.21	20	
Toluene	2.57	0.23	mg/Kg wet	2.27		113	70-130	4.05	20	
1,2,3-Trichlorobenzene	1.66	1.1	mg/Kg wet	2.27		73.4	70-130	5.17	20	V-05
1,2,4-Trichlorobenzene	1.68	0.23	mg/Kg wet	2.27		73.9	70-130	1.50	20	V-05
1,1,1-Trichloroethane	2.50	0.23	mg/Kg wet	2.27		110	70-130	5.30	20	
1,1,2-Trichloroethane	2.53	0.23	mg/Kg wet	2.27		112	70-130	1.24	20	
Trichloroethylene	2.61	0.23	mg/Kg wet	2.27		115	70-130	7.96	20	
Trichlorofluoromethane (Freon 11)	2.37	0.45	mg/Kg wet	2.27		104	70-130	6.32	20	
1,2,3-Trichloropropane	2.13	0.45	mg/Kg wet	2.27		94.0	70-130	2.52	20	
1,2,4-Trimethylbenzene	2.48	0.23	mg/Kg wet	2.27		109	70-130	3.91	20	
1,3,5-Trimethylbenzene	2.46	0.23	mg/Kg wet	2.27		108	70-130	2.43	20	
Vinyl Chloride	1.83	0.45	mg/Kg wet	2.27		80.9	70-130	0.248	20	
m+p Xylene	5.25	0.45	mg/Kg wet	4.53		116	70-130	3.07	20	
o-Xylene	2.57	0.23	mg/Kg wet	2.27		113	70-130	4.88	20	
Surrogate: 1,2-Dichloroethane-d4	*0.0277*		mg/Kg wet	0.0283		97.8	70-130			
Surrogate: Toluene-d8	*0.0290*		mg/Kg wet	0.0283		102	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0276*		mg/Kg wet	0.0283		97.3	70-130			

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 B035013 - SW-846 3546										
Blank (B035013-BLK1)				Prepared & Analyzed: 08/08/11						
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							
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							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.66	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							V-19
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	0.66	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19, V-20
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							V-20
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							R-05
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							
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							R-05
Pentachlorophenol	ND	0.34	mg/Kg wet							R-05
Phenanthrene	ND	0.17	mg/Kg wet							

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 B035013 - SW-846 3546											
Blank (B035013-BLK1)				Prepared & Analyzed: 08/08/11							
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	*5.64*		mg/Kg wet	6.67		84.6	30-130				
Surrogate: Phenol-d6	*5.30*		mg/Kg wet	6.67		79.5	30-130				
Surrogate: Nitrobenzene-d5	*2.40*		mg/Kg wet	3.33		72.0	30-130				
Surrogate: 2-Fluorobiphenyl	*2.71*		mg/Kg wet	3.33		81.3	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.95*		mg/Kg wet	6.67		89.2	30-130				
Surrogate: Terphenyl-d14	*2.84*		mg/Kg wet	3.33		85.1	30-130				
LCS (B035013-BS1)				Prepared & Analyzed: 08/08/11							
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140				
Acenaphthylene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140				
Acetophenone	1.08	0.34	mg/Kg wet	1.67		64.8	40-140				
Aniline	0.727	0.34	mg/Kg wet	1.67		43.6	40-140				
Anthracene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140				
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140				
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140				
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140				
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.0	40-140				
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140				
Bis(2-chloroethoxy)methane	1.09	0.34	mg/Kg wet	1.67		65.5	40-140				
Bis(2-chloroethyl)ether	1.06	0.34	mg/Kg wet	1.67		63.6	40-140				
Bis(2-chloroisopropyl)ether	0.985	0.34	mg/Kg wet	1.67		59.1	40-140				
Bis(2-Ethylhexyl)phthalate	1.32	0.34	mg/Kg wet	1.67		79.4	40-140				
4-Bromophenylphenylether	1.18	0.34	mg/Kg wet	1.67		70.7	40-140				
Butylbenzylphthalate	1.23	0.66	mg/Kg wet	1.67		73.7	40-140				
4-Chloroaniline	0.837	0.66	mg/Kg wet	1.67		50.2	15-140				†
2-Chloronaphthalene	1.02	0.34	mg/Kg wet	1.67		61.4	40-140				
2-Chlorophenol	1.15	0.34	mg/Kg wet	1.67		68.9	30-130				
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140				
Dibenz(a,h)anthracene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140				
Dibenzofuran	1.11	0.34	mg/Kg wet	1.67		66.8	40-140				
Di-n-butylphthalate	1.23	0.34	mg/Kg wet	1.67		73.9	40-140				
1,2-Dichlorobenzene	1.01	0.34	mg/Kg wet	1.67		60.5	40-140				
1,3-Dichlorobenzene	0.974	0.34	mg/Kg wet	1.67		58.4	40-140				
1,4-Dichlorobenzene	0.994	0.34	mg/Kg wet	1.67		59.7	40-140				
3,3-Dichlorobenzidine	1.28	0.17	mg/Kg wet	1.67		76.8	40-140			V-19	
2,4-Dichlorophenol	1.20	0.34	mg/Kg wet	1.67		71.8	30-130				
Diethylphthalate	1.18	0.34	mg/Kg wet	1.67		70.5	40-140				
2,4-Dimethylphenol	1.08	0.34	mg/Kg wet	1.67		65.1	30-130				
Dimethylphthalate	1.19	0.66	mg/Kg wet	1.67		71.2	40-140				
2,4-Dinitrophenol	0.828	0.66	mg/Kg wet	1.67		49.7	15-140			V-06, V-19	†
2,4-Dinitrotoluene	1.24	0.34	mg/Kg wet	1.67		74.3	40-140			V-06	
2,6-Dinitrotoluene	1.24	0.34	mg/Kg wet	1.67		74.3	40-140				
Di-n-octylphthalate	1.28	0.66	mg/Kg wet	1.67		76.5	40-140				
1,2-Diphenylhydrazine (as Azobenzene)	1.08	0.34	mg/Kg wet	1.67		64.7	40-140				
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140			R-05	
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140				
Hexachlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.4	40-140				

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 B035013 - SW-846 3546											
LCS (B035013-BS1)				Prepared & Analyzed: 08/08/11							
Hexachlorobutadiene	1.07	0.34	mg/Kg wet	1.67		64.1	40-140				
Hexachloroethane	1.00	0.34	mg/Kg wet	1.67		60.3	40-140				
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140				
Isophorone	1.06	0.34	mg/Kg wet	1.67		63.8	40-140				
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140				
2-Methylphenol	0.626	0.34	mg/Kg wet	1.67		37.6	30-130				
3/4-Methylphenol	0.688	0.34	mg/Kg wet	1.67		41.3	30-130				
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140				
Nitrobenzene	1.04	0.34	mg/Kg wet	1.67		62.1	40-140				
2-Nitrophenol	1.24	0.34	mg/Kg wet	1.67		74.6	30-130				
4-Nitrophenol	1.33	0.66	mg/Kg wet	1.67		80.1	15-140			R-05	†
Pentachlorophenol	0.892	0.34	mg/Kg wet	1.67		53.5	30-130			R-05	
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140				
Phenol	1.20	0.34	mg/Kg wet	1.67		71.9	15-140				†
Pyrene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140				
1,2,4-Trichlorobenzene	1.10	0.34	mg/Kg wet	1.67		65.7	40-140				
2,4,5-Trichlorophenol	0.695	0.34	mg/Kg wet	1.67		41.7	30-130				
2,4,6-Trichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.7	30-130				
Surrogate: 2-Fluorophenol	*4.52*		mg/Kg wet	6.67		67.8	30-130				
Surrogate: Phenol-d6	*4.42*		mg/Kg wet	6.67		66.4	30-130				
Surrogate: Nitrobenzene-d5	*2.05*		mg/Kg wet	3.33		61.6	30-130				
Surrogate: 2-Fluorobiphenyl	*2.29*		mg/Kg wet	3.33		68.8	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.47*		mg/Kg wet	6.67		97.0	30-130				
Surrogate: Terphenyl-d14	*2.53*		mg/Kg wet	3.33		75.9	30-130				
LCS Dup (B035013-BSD1)				Prepared & Analyzed: 08/08/11							
Acenaphthene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140	19.5	30		
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		79.3	40-140	18.8	30		
Acetophenone	1.35	0.34	mg/Kg wet	1.67		81.0	40-140	22.3	30		
Aniline	0.890	0.34	mg/Kg wet	1.67		53.4	40-140	20.2	30		
Anthracene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140	20.2	30		
Benzo(a)anthracene	1.39	0.17	mg/Kg wet	1.67		83.7	40-140	20.3	30		
Benzo(a)pyrene	1.39	0.17	mg/Kg wet	1.67		83.6	40-140	20.1	30		
Benzo(b)fluoranthene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140	20.7	30		
Benzo(g,h,i)perylene	1.52	0.17	mg/Kg wet	1.67		91.5	40-140	26.6	30		
Benzo(k)fluoranthene	1.41	0.17	mg/Kg wet	1.67		84.9	40-140	21.5	30		
Bis(2-chloroethoxy)methane	1.38	0.34	mg/Kg wet	1.67		82.7	40-140	23.2	30		
Bis(2-chloroethyl)ether	1.33	0.34	mg/Kg wet	1.67		79.8	40-140	22.6	30		
Bis(2-chloroisopropyl)ether	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	23.8	30		
Bis(2-Ethylhexyl)phthalate	1.61	0.34	mg/Kg wet	1.67		96.4	40-140	19.4	30		
4-Bromophenylphenylether	1.40	0.34	mg/Kg wet	1.67		84.1	40-140	17.3	30		
Butylbenzylphthalate	1.60	0.66	mg/Kg wet	1.67		95.8	40-140	26.2	30		
4-Chloroaniline	1.00	0.66	mg/Kg wet	1.67		60.2	15-140	18.1	30		†
2-Chloronaphthalene	1.21	0.34	mg/Kg wet	1.67		72.4	40-140	16.4	30		
2-Chlorophenol	1.44	0.34	mg/Kg wet	1.67		86.3	30-130	22.4	30		
Chrysene	1.41	0.17	mg/Kg wet	1.67		84.4	40-140	20.6	30		
Dibenz(a,h)anthracene	1.52	0.17	mg/Kg wet	1.67		91.1	40-140	25.2	30		
Dibenzofuran	1.36	0.34	mg/Kg wet	1.67		81.4	40-140	19.7	30		
Di-n-butylphthalate	1.63	0.34	mg/Kg wet	1.67		97.7	40-140	27.7	30		
1,2-Dichlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.4	40-140	25.8	30		
1,3-Dichlorobenzene	1.28	0.34	mg/Kg wet	1.67		76.7	40-140	27.1	30		
1,4-Dichlorobenzene	1.31	0.34	mg/Kg wet	1.67		78.6	40-140	27.4	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 B035013 - SW-846 3546												
LCS Dup (B035013-BSD1)				Prepared & Analyzed: 08/08/11								
3,3-Dichlorobenzidine	1.36	0.17	mg/Kg wet	1.67		81.4	40-140	5.79		30	V-19	
2,4-Dichlorophenol	1.49	0.34	mg/Kg wet	1.67		89.5	30-130	21.9		30		
Diethylphthalate	1.50	0.34	mg/Kg wet	1.67		90.1	40-140	24.4		30		
2,4-Dimethylphenol	1.36	0.34	mg/Kg wet	1.67		81.6	30-130	22.5		30		
Dimethylphthalate	1.47	0.66	mg/Kg wet	1.67		88.3	40-140	21.4		30		
2,4-Dinitrophenol	1.07	0.66	mg/Kg wet	1.67		64.0	15-140	25.3		30	V-06, V-19	†
2,4-Dinitrotoluene	1.61	0.34	mg/Kg wet	1.67		96.9	40-140	26.4		30	V-06	
2,6-Dinitrotoluene	1.54	0.34	mg/Kg wet	1.67		92.4	40-140	21.7		30		
Di-n-octylphthalate	1.65	0.66	mg/Kg wet	1.67		99.0	40-140	25.6		30		
1,2-Diphenylhydrazine (as Azobenzene)	1.25	0.34	mg/Kg wet	1.67		74.7	40-140	14.4		30		
Fluoranthene	1.62	0.17	mg/Kg wet	1.67		97.4	40-140	**35.0**	*	30	R-05	
Fluorene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140	20.8		30		
Hexachlorobenzene	1.44	0.34	mg/Kg wet	1.67		86.1	40-140	16.0		30		
Hexachlorobutadiene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140	25.0		30		
Hexachloroethane	1.33	0.34	mg/Kg wet	1.67		79.6	40-140	27.5		30		
Indeno(1,2,3-cd)pyrene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140	28.6		30		
Isophorone	1.29	0.34	mg/Kg wet	1.67		77.7	40-140	19.6		30		
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		79.7	40-140	22.2		30		
2-Methylphenol	0.777	0.34	mg/Kg wet	1.67		46.6	30-130	21.6		30		
3/4-Methylphenol	0.888	0.34	mg/Kg wet	1.67		53.3	30-130	25.4		30		
Naphthalene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	23.1		30		
Nitrobenzene	1.27	0.34	mg/Kg wet	1.67		76.1	40-140	20.2		30		
2-Nitrophenol	1.58	0.34	mg/Kg wet	1.67		94.7	30-130	23.7		30		
4-Nitrophenol	1.88	0.66	mg/Kg wet	1.67		113	15-140	**33.9**	*	30	R-05	†
Pentachlorophenol	1.25	0.34	mg/Kg wet	1.67		75.0	30-130	**33.4**	*	30	R-05	
Phenanthrene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	20.0		30		
Phenol	1.48	0.34	mg/Kg wet	1.67		88.7	15-140	20.8		30		†
Pyrene	1.48	0.17	mg/Kg wet	1.67		88.8	40-140	20.9		30		
1,2,4-Trichlorobenzene	1.40	0.34	mg/Kg wet	1.67		83.8	40-140	24.2		30		
2,4,5-Trichlorophenol	0.823	0.34	mg/Kg wet	1.67		49.4	30-130	17.0		30		
2,4,6-Trichlorophenol	1.54	0.34	mg/Kg wet	1.67		92.3	30-130	19.8		30		
Surrogate: 2-Fluorophenol	*5.69*		mg/Kg wet	6.67		85.4	30-130					
Surrogate: Phenol-d6	*5.31*		mg/Kg wet	6.67		79.7	30-130					
Surrogate: Nitrobenzene-d5	*2.52*		mg/Kg wet	3.33		75.7	30-130					
Surrogate: 2-Fluorobiphenyl	*2.72*		mg/Kg wet	3.33		81.6	30-130					
Surrogate: 2,4,6-Tribromophenol	*8.30*		mg/Kg wet	6.67		124	30-130					
Surrogate: Terphenyl-d14	*3.18*		mg/Kg wet	3.33		95.5	30-130					

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B034931 - SW-846 3546										
Blank (B034931-BLK1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0050	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.144*		mg/Kg wet	0.200		72.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.135*		mg/Kg wet	0.200		67.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.140*		mg/Kg wet	0.200		70.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.135*		mg/Kg wet	0.200		67.3	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B034931 - SW-846 3546										
LCS (B034931-BS1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Aldrin	0.020	0.0050	mg/Kg wet	0.0200		99.2	40-140			
Aldrin [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.8	40-140			
alpha-BHC	0.020	0.0050	mg/Kg wet	0.0200		98.9	40-140			
alpha-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		93.0	40-140			
beta-BHC	0.020	0.0050	mg/Kg wet	0.0200		99.4	40-140			
beta-BHC [2C]	0.020	0.0050	mg/Kg wet	0.0200		99.1	40-140			
delta-BHC	0.019	0.0050	mg/Kg wet	0.0200		92.8	40-140			
delta-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		87.3	40-140			
gamma-BHC (Lindane)	0.019	0.0020	mg/Kg wet	0.0200		94.3	40-140			
gamma-BHC (Lindane) [2C]	0.018	0.0020	mg/Kg wet	0.0200		91.3	40-140			
4,4'-DDD	0.020	0.0040	mg/Kg wet	0.0200		100	40-140			
4,4'-DDD [2C]	0.019	0.0040	mg/Kg wet	0.0200		95.8	40-140			
4,4'-DDE	0.020	0.0040	mg/Kg wet	0.0200		101	40-140			
4,4'-DDE [2C]	0.020	0.0040	mg/Kg wet	0.0200		97.6	40-140			
4,4'-DDT	0.020	0.0040	mg/Kg wet	0.0200		98.3	40-140			
4,4'-DDT [2C]	0.018	0.0040	mg/Kg wet	0.0200		92.4	40-140			
Dieldrin	0.020	0.0040	mg/Kg wet	0.0200		101	40-140			
Dieldrin [2C]	0.019	0.0040	mg/Kg wet	0.0200		95.5	40-140			
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		101	40-140			
Endosulfan I [2C]	0.020	0.0050	mg/Kg wet	0.0200		97.9	40-140			
Endosulfan II	0.020	0.0080	mg/Kg wet	0.0200		98.6	40-140			
Endosulfan II [2C]	0.019	0.0080	mg/Kg wet	0.0200		92.6	40-140			
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		99.0	40-140			
Endosulfan Sulfate [2C]	0.019	0.0080	mg/Kg wet	0.0200		94.8	40-140			
Endrin	0.020	0.0080	mg/Kg wet	0.0200		101	40-140			
Endrin [2C]	0.019	0.0080	mg/Kg wet	0.0200		96.7	40-140			
Endrin Ketone	0.019	0.0080	mg/Kg wet	0.0200		96.4	40-140			
Endrin Ketone [2C]	0.018	0.0080	mg/Kg wet	0.0200		90.3	40-140			
Heptachlor	0.020	0.0050	mg/Kg wet	0.0200		99.5	40-140			
Heptachlor [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.9	40-140			
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		102	40-140			
Heptachlor Epoxide [2C]	0.020	0.0050	mg/Kg wet	0.0200		98.1	40-140			
Hexachlorobenzene	0.020	0.0050	mg/Kg wet	0.0200		101	40-140			
Hexachlorobenzene [2C]	0.018	0.0050	mg/Kg wet	0.0200		89.5	40-140			
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		101	40-140			
Methoxychlor [2C]	0.019	0.050	mg/Kg wet	0.0200		95.1	40-140			
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg wet	0.200		78.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.148*		mg/Kg wet	0.200		73.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.145*		mg/Kg wet	0.200		72.4	30-150			
LCS Dup (B034931-BSD1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Aldrin	0.019	0.0050	mg/Kg wet	0.0200		97.1	40-140	2.15	30	
Aldrin [2C]	0.019	0.0050	mg/Kg wet	0.0200		94.3	40-140	2.64	30	
alpha-BHC	0.019	0.0050	mg/Kg wet	0.0200		96.8	40-140	2.18	30	
alpha-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.0	40-140	2.19	30	
beta-BHC	0.020	0.0050	mg/Kg wet	0.0200		98.2	40-140	1.30	30	
beta-BHC [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.9	40-140	2.22	30	
delta-BHC	0.018	0.0050	mg/Kg wet	0.0200		90.4	40-140	2.60	30	
delta-BHC [2C]	0.017	0.0050	mg/Kg wet	0.0200		85.5	40-140	2.15	30	
gamma-BHC (Lindane)	0.018	0.0020	mg/Kg wet	0.0200		92.3	40-140	2.18	30	
gamma-BHC (Lindane) [2C]	0.018	0.0020	mg/Kg wet	0.0200		89.2	40-140	2.32	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B034931 - SW-846 3546										
LCS Dup (B034931-BSD1)				Prepared: 08/05/11 Analyzed: 08/09/11						
4,4'-DDD	0.020	0.0040	mg/Kg wet	0.0200		98.5	40-140	1.99	30	
4,4'-DDD [2C]	0.019	0.0040	mg/Kg wet	0.0200		94.0	40-140	1.91	30	
4,4'-DDE	0.020	0.0040	mg/Kg wet	0.0200		99.1	40-140	1.90	30	
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		95.5	40-140	2.20	30	
4,4'-DDT	0.019	0.0040	mg/Kg wet	0.0200		96.5	40-140	1.77	30	
4,4'-DDT [2C]	0.018	0.0040	mg/Kg wet	0.0200		91.0	40-140	1.49	30	
Dieldrin	0.020	0.0040	mg/Kg wet	0.0200		99.0	40-140	2.11	30	
Dieldrin [2C]	0.019	0.0040	mg/Kg wet	0.0200		93.6	40-140	2.04	30	
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		99.4	40-140	1.90	30	
Endosulfan I [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.1	40-140	1.87	30	
Endosulfan II	0.019	0.0080	mg/Kg wet	0.0200		97.2	40-140	1.41	30	
Endosulfan II [2C]	0.018	0.0080	mg/Kg wet	0.0200		91.2	40-140	1.58	30	
Endosulfan Sulfate	0.019	0.0080	mg/Kg wet	0.0200		97.0	40-140	1.99	30	
Endosulfan Sulfate [2C]	0.019	0.0080	mg/Kg wet	0.0200		92.8	40-140	2.14	30	
Endrin	0.020	0.0080	mg/Kg wet	0.0200		98.9	40-140	2.11	30	
Endrin [2C]	0.019	0.0080	mg/Kg wet	0.0200		95.1	40-140	1.73	30	
Endrin Ketone	0.019	0.0080	mg/Kg wet	0.0200		94.6	40-140	1.88	30	
Endrin Ketone [2C]	0.018	0.0080	mg/Kg wet	0.0200		88.9	40-140	1.61	30	
Heptachlor	0.020	0.0050	mg/Kg wet	0.0200		97.9	40-140	1.68	30	
Heptachlor [2C]	0.019	0.0050	mg/Kg wet	0.0200		95.0	40-140	1.95	30	
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		100	40-140	1.88	30	
Heptachlor Epoxide [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.1	40-140	2.06	30	
Hexachlorobenzene	0.020	0.0050	mg/Kg wet	0.0200		98.0	40-140	3.46	30	
Hexachlorobenzene [2C]	0.017	0.0050	mg/Kg wet	0.0200		86.3	40-140	3.62	30	
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		102	40-140	0.657	30	
Methoxychlor [2C]	0.019	0.050	mg/Kg wet	0.0200		92.9	40-140	2.29	30	
Surrogate: Decachlorobiphenyl	*0.156*		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.146*		mg/Kg wet	0.200		72.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.147*		mg/Kg wet	0.200		73.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.142*		mg/Kg wet	0.200		71.1	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 B034935 - SW-846 3546										
Blank (B034935-BLK1)				Prepared: 08/05/11 Analyzed: 08/09/11						
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	*0.146*		mg/Kg wet	0.200		73.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.160*		mg/Kg wet	0.200		80.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.165*		mg/Kg wet	0.200		82.3	30-150			
LCS (B034935-BS1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Aroclor-1016	0.16	0.10	mg/Kg wet	0.200		78.9	40-140			
Aroclor-1016 [2C]	0.19	0.10	mg/Kg wet	0.200		93.9	40-140			
Aroclor-1260	0.16	0.10	mg/Kg wet	0.200		80.2	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		95.6	40-140			
Surrogate: Decachlorobiphenyl	*0.143*		mg/Kg wet	0.200		71.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.164*		mg/Kg wet	0.200		82.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.200		74.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg wet	0.200		85.3	30-150			
LCS Dup (B034935-BSD1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Aroclor-1016	0.14	0.10	mg/Kg wet	0.200		69.7	40-140	12.3	30	
Aroclor-1016 [2C]	0.16	0.10	mg/Kg wet	0.200		78.4	40-140	18.0	30	
Aroclor-1260	0.14	0.10	mg/Kg wet	0.200		69.5	40-140	14.3	30	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg wet	0.200		80.0	40-140	17.7	30	
Surrogate: Decachlorobiphenyl	*0.118*		mg/Kg wet	0.200		58.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.135*		mg/Kg wet	0.200		67.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.124*		mg/Kg wet	0.200		61.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.142*		mg/Kg wet	0.200		70.9	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 B035151 - SW-846 3546										
Blank (B035151-BLK1)				Prepared & Analyzed: 08/09/11						
TPH C9-C36 Hydrocarbons as Diesel	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	*2.70*		mg/Kg wet	3.33		80.9	40-140			
LCS (B035151-BS1)				Prepared & Analyzed: 08/09/11						
TPH C9-C36 Hydrocarbons as Diesel	32.0	8.3	mg/Kg wet	33.3		95.9	40-140			
Surrogate: o-Terphenyl	*2.53*		mg/Kg wet	3.33		76.0	40-140			
LCS Dup (B035151-BSD1)				Prepared & Analyzed: 08/09/11						
TPH C9-C36 Hydrocarbons as Diesel	31.5	8.3	mg/Kg wet	33.3		94.4	40-140	1.49	30	
Surrogate: o-Terphenyl	*2.45*		mg/Kg wet	3.33		73.6	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B034922 - SW-846 7471										
Blank (B034922-BLK1)				Prepared & Analyzed: 08/05/11						
Mercury	ND	0.025	mg/Kg wet							
LCS (B034922-BS1)				Prepared & Analyzed: 08/05/11						
Mercury	1.07	0.093	mg/Kg wet	1.25		85.2	66-132			
LCS Dup (B034922-BSD1)				Prepared & Analyzed: 08/05/11						
Mercury	1.04	0.094	mg/Kg wet	1.25		83.4	66-132	2.12	30	
Batch B035016 - SW-846 7471										
Blank (B035016-BLK1)				Prepared & Analyzed: 08/08/11						
Mercury	ND	0.025	mg/Kg wet							
LCS (B035016-BS1)				Prepared & Analyzed: 08/08/11						
Mercury	1.22	0.095	mg/Kg wet	1.25		97.6	66-132			
LCS Dup (B035016-BSD1)				Prepared & Analyzed: 08/08/11						
Mercury	1.18	0.095	mg/Kg wet	1.25		94.7	66-132	3.03	30	
Batch B035019 - SW-846 3050B										
Blank (B035019-BLK1)				Prepared & Analyzed: 08/08/11						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B035019-BS1)				Prepared & Analyzed: 08/08/11						
Arsenic	99.2	5.1	mg/Kg wet	92.6		107	83.2-117.4			
Barium	185	5.1	mg/Kg wet	169		109	83.1-116.9			
Cadmium	65.7	0.51	mg/Kg wet	61.8		106	80.7-119.1			
Chromium	74.8	1.0	mg/Kg wet	71.3		105	80.6-119.9			
Lead	93.3	1.5	mg/Kg wet	92.4		101	78.9-121.1			
Selenium	94.1	10	mg/Kg wet	89.5		105	79.2-120.3			
Silver	37.4	1.0	mg/Kg wet	34.4		109	66.3-133.7			
LCS (B035019-BS2)				Prepared & Analyzed: 08/08/11						
Lead	0.861	0.76	mg/Kg wet	0.760		113	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035019 - SW-846 3050B										
LCS Dup (B035019-BSD1)				Prepared & Analyzed: 08/08/11						
Arsenic	99.1	5.1	mg/Kg wet	92.6		107	83.2-117.4	0.0153	30	
Barium	183	5.1	mg/Kg wet	169		108	83.1-116.9	0.896	30	
Cadmium	67.3	0.51	mg/Kg wet	61.8		109	80.7-119.1	2.37	30	
Chromium	74.8	1.0	mg/Kg wet	71.3		105	80.6-119.9	0.00559	30	
Lead	93.2	1.5	mg/Kg wet	92.4		101	78.9-121.1	0.0416	30	
Selenium	94.3	10	mg/Kg wet	89.5		105	79.2-120.3	0.211	30	
Silver	36.7	1.0	mg/Kg wet	34.4		107	66.3-133.7	2.09	30	

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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 B034998 - SW-846 9014										
Blank (B034998-BLK1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B034998-BS1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Reactive Cyanide	9.4	0.40	mg/Kg	10.0		93.9	0-200			
Batch B034999 - SW-846 9030A										
Blank (B034999-BLK1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B034999-BS1)				Prepared: 08/05/11 Analyzed: 08/09/11						
Reactive Sulfide	11	2.0	mg/Kg	15.2		73.7	0-200			
Batch B035003 - SW-846 1010										
Blank (B035003-BLK1)				Prepared & Analyzed: 08/05/11						
Flashpoint	> 212 °F		°F							
LCS (B035003-BS1)				Prepared & Analyzed: 08/05/11						
Flashpoint	82		°F	81.0		101	98.8-101			
LCS Dup (B035003-BSD1)				Prepared & Analyzed: 08/05/11						
Flashpoint	81		°F	81.0		99.5	98.8-101	1.11	1.57	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch W0805 - SW-846 3540C										
BLK (BATCH-BLK1 (Soil))				Prepared: 08/08/11 Analyzed: 08/09/11						
2,4-D	ND	50	µg/Kg				-			
2,4-DB	ND	50	µg/Kg				-			
2,4,5-TP (Silvex)	ND	50	µg/Kg				-			
2,4,5-T	ND	50	µg/Kg				-			
Dalapon	ND	50	µg/Kg				-			
Dicamba	ND	50	µg/Kg				-			
Dichloroprop	ND	50	µg/Kg				-			
Dinoseb	ND	50	µg/Kg				-			
Surrogate: DCAA	*89*		µg/Kg			89	30-150			
BS (BATCH-BS1 (Soil))				Prepared: 08/08/11 Analyzed: 08/09/11						
2,4-D	830	100	µg/Kg	1000		83	40-140			
2,4-DB	731	100	µg/Kg	1000		73.1	40-140			
2,4,5-TP (Silvex)	840	100	µg/Kg	1000		84	40-140			
2,4,5-T	796	100	µg/Kg	1000		79.6	40-140			
Dalapon	691	100	µg/Kg	1000		69.1	40-140			
Dicamba	832	100	µg/Kg	1000		83.2	40-140			
Dichloroprop	839	100	µg/Kg	1000		83.9	40-140			
Dinoseb	787	100	µg/Kg	1000		78.7	40-140			
Surrogate: DCAA	*92*		µg/Kg			92	30-150			
BSD (BATCH-BSD1 (Soil))				Prepared: 08/08/11 Analyzed: 08/09/11						
2,4-D	828	100	µg/Kg	1000		82.8	40-140			
2,4-DB	892	100	µg/Kg	1000		89.2	40-140			
2,4,5-TP (Silvex)	830	100	µg/Kg	1000		83	40-140			
2,4,5-T	796	100	µg/Kg	1000		79.6	40-140			
Dalapon	782	100	µg/Kg	1000		78.2	40-140			
Dicamba	650	100	µg/Kg	1000		65	40-140			
Dichloroprop	811	100	µg/Kg	1000		81.1	40-140			
Dinoseb	781	100	µg/Kg	1000		78.1	40-140			
Surrogate: DCAA	*105*		µg/Kg			105	30-150			

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BREAKDOWN REPORT

Lab Sample ID: **S000909-PEM1** **Analyzed:** **08/09/2011**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.74
Endrin [1]	2.54

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.31
Endrin [2]	3.72

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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.
H-03	Sample received after recommended holding time was exceeded.
L-02	Laboratory fortified blank/laboratory control sample recovery and duplicate recoveries outside of control limits. Data validation is not affected since all results are "not detected" for associated samples in this batch and bias is on the high side.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
Z-01	Initial continuing calibration was within method criteria. Closing continuing calibration did not meet method criteria and was biased on the low side. Reanalysis yielded similar calibration non-conformance. Matrix interference is suspected.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC
Barium	CT,NH,NY,ME,NC
Cadmium	CT,NH,NY,ME,NC
Chromium	CT,NH,NY,ME,NC
Lead	CT,NH,NY,AIHA,ME,NC
Selenium	CT,NH,NY,ME,NC
Silver	CT,NH,NY,ME,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME
SW-846 8081B in Soil	
Aldrin	CT,NC,NH,NY,ME
Aldrin [2C]	CT,NC,NH,NY,ME
alpha-BHC	CT,NC,NH,NY,ME
alpha-BHC [2C]	CT,NC,NH,NY,ME
beta-BHC	CT,NC,NH,NY,ME
beta-BHC [2C]	CT,NC,NH,NY,ME
delta-BHC	CT,NC,NH,NY,ME
delta-BHC [2C]	CT,NC,NH,NY,ME
gamma-BHC (Lindane)	CT,NC,NH,NY,ME
gamma-BHC (Lindane) [2C]	CT,NC,NH,NY,ME
Chlordane	CT,NC,NH,NY,ME
Chlordane [2C]	CT,NC,NH,NY,ME
4,4'-DDD	CT,NC,NH,NY,ME
4,4'-DDD [2C]	CT,NC,NH,NY,ME
4,4'-DDE	CT,NC,NH,NY,ME
4,4'-DDE [2C]	CT,NC,NH,NY,ME
4,4'-DDT	CT,NC,NH,NY,ME
4,4'-DDT [2C]	CT,NC,NH,NY,ME
Dieldrin	CT,NC,NH,NY,ME
Dieldrin [2C]	CT,NC,NH,NY,ME
Endosulfan I	CT,NC,NH,NY,ME
Endosulfan I [2C]	CT,NC,NH,NY,ME
Endosulfan II	CT,NC,NH,NY,ME
Endosulfan II [2C]	CT,NC,NH,NY,ME
Endosulfan Sulfate	CT,NC,NH,NY,ME
Endosulfan Sulfate [2C]	CT,NC,NH,NY,ME
Endrin	CT,NC,NH,NY,ME
Endrin [2C]	CT,NC,NH,NY,ME
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NC,NH,NY,ME
Heptachlor [2C]	CT,NC,NH,NY,ME
Heptachlor Epoxide	CT,NC,NH,NY,ME
Heptachlor Epoxide [2C]	CT,NC,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NC,NH,NY,ME
Methoxychlor [2C]	CT,NC,NH,NY,ME
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
n-Butylbenzene	CT,NH,NY,NC,ME
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC,ME
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 9014 in Soil	
Reactive Cyanide	NY,CT,NH
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

11H0192

Company Name: MILLENNIUM ENV.
Telephone: (508) 303-2000
Address: 197M BOSTON POST RD W#318
MARLBORO, MA 01752
Project # RY5
Client PO# RY5-001
Attention: JESSE MAGGS
Project Location: READVILLE YARD 5
Sampled By: JM

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

DATA DELIVERY (check all that apply)
✓FAX ✓EMAIL ○WEBSITE
Fax # (508) 303-0006
Email: JMAGGS@ATLANTICDEMO.COM
Format: ✓PDF ✓EXCEL ○GIS
○ OTHER
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	VOCs 8260	SVOCs 8270	Herb/Pesticides 8081	PCBs 8082	TPH 8160	RCRA 8 * 6010	Flashpoint	Reactivity	Corrosivity	# of Containers	** Preservation	***Container Code
								2	1										
								-	M										
								A	V										
-01	RY5-S-10-A	8/3/11	11:30	X	X	S	U	X	X	X	X	X	X	X	X	X			
-02	1 1 21-A	1	11:45	X	X	S	U	X	X	X	X	X	X	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:
72 HR TAT, PLEASE
* TCLP ON METALS EXCEEDING 20X RULE

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

	Date/Time
Relinquished by: (signature)	8/4/11 2:30
Received by: (signature)	8/4 1430
Relinquished by: (signature)	8/4 1815
Received by: (signature)	8/4/11 1810

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

Detection Limit Requirements
Massachusetts: LRCS-1
Connecticut:
Other:

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

NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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

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Sample Receipt Checklist

CLIENT NAME: Millennium Env. RECEIVED BY: SD DATE: 8/14/11

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 5.4

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: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	5
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	2	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc. Project #: 11H0192

Project Location: RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
W0805-03

Matrices: Groundwater/Surface Water x Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C x	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	X Yes No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	X Yes No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	X Yes No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	X Yes No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes No Yes No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	X Yes No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	X Yes No[1]

***Data User Note:** Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	X Yes No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes X No[1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ **Position:** Laboratory Director

Printed Name: Richard Warila **Date:** 8/9/2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H0192
Project Location: Readville Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H0192-01 thru 11H0192-02

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B (X)	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]
	A response to questions G, H and I below is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]
	<u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.		
H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 08/10/11

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August 23, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5
Laboratory Work Order Number: 11H0644

Enclosed are results of analyses for samples received by the laboratory on August 17, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/23/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0644

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-S-10-A	11H0644-01	Soil		SM 2540G	
				SM18-20 2510B	
				SM2580 A	
				SW-846 6010C	
				SW-846 7196A	
				SW-846 9045C	
				Tri Chrome Calc.	
RY5-S-21-A	11H0644-02	Soil		SM 2540G	
				SW-846 6010C	
				SW-846 7196A	
				Tri Chrome Calc.	

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CASE NARRATIVE SUMMARY

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

For method 6010, only Cr results were requested and reported.

SM2580 A

Qualifications:

Analysis was performed significantly past the MA CAM recommended holding time of 24 hours for pH and ORP.

Analyte & Samples(s) Qualified:

Oxidation/Reduction Potential

11H0644-01[RY5-S-10-A], B035743-DUP1

SW-846 7196A

Qualifications:

For solid method SW846-7196A, the matrix spike is outside of control limits. pH and ORP results were indicative of reducing conditions. Reanalysis is not required. Analysis is in control based on LCS recoveries.

Analyte & Samples(s) Qualified:

Hexavalent Chromium

11H0644-01[RY5-S-10-A], B035751-MS4, B035751-MS5, B035751-MSD4

Elevated method detection limit due to intense color of sample

Analyte & Samples(s) Qualified:

Hexavalent Chromium

11H0644-01[RY5-S-10-A], 11H0644-02[RY5-S-21-A]

SW-846 9045C

Qualifications:

Analysis was performed significantly past the MA CAM recommended holding time of 24 hours for pH and ORP.

Analyte & Samples(s) Qualified:

pH

11H0644-01[RY5-S-10-A], B035766-DUP2

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0644

Date Received: 8/17/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0644-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	34	0.54	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:41	OP
Chromium, Trivalent	34		mg/Kg	1		Tri Chrome Calc.	8/18/11	8/22/11 10:57	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0644

Date Received: 8/17/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0644-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	1.7	mg/Kg dry	10	MS-16, W-06	SW-846 7196A	8/18/11	8/19/11 14:45	AED
Oxidation/Reduction Potential	110		mV	1	H-12	SM2580 A	8/18/11	8/18/11 10:30	LL
pH @21°C	7.9		pH Units	1	H-12	SW-846 9045C	8/18/11	8/18/11 10:30	LL
Specific conductance	8.9	2.0	µmhos/cm	1		SM18-20 2510B	8/19/11	8/19/11 12:45	LL
% Solids	92.6		% Wt	1		SM 2540G	8/22/11	8/23/11 10:04	DBS

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0644

Date Received: 8/17/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0644-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	680	0.55	mg/Kg dry	1		SW-846 6010C	8/8/11	8/8/11 20:46	OP
Chromium, Trivalent	680		mg/Kg	1		Tri Chrome Calc.	8/18/11	8/22/11 10:57	OP

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0644

Date Received: 8/17/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0644-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Hexavalent Chromium	ND	2.1	mg/Kg dry	10	W-06	SW-846 7196A	8/18/11	8/19/11 14:45	AED
% Solids	92.5		% Wt	1		SM 2540G	8/17/11	8/23/11 11:05	FWD

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11H0644-02 [RY5-S-21-A]	B035623	08/17/11

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11H0644-01 [RY5-S-10-A]	B035959	08/22/11

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
11H0644-01 [RY5-S-10-A]	B035830	1.00	08/19/11

SM2580 A

Lab Number [Field ID]	Batch	Initial [g]	Date
11H0644-01 [RY5-S-10-A]	B035743	20.0	08/18/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0644-01 [RY5-S-10-A]	B035019	1.00	50.0	08/08/11
11H0644-02 [RY5-S-21-A]	B035019	0.983	50.0	08/08/11

SW-846 7196A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0644-01 [RY5-S-10-A]	B035751	2.56	100	08/18/11
11H0644-02 [RY5-S-21-A]	B035751	2.11	100	08/18/11

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
11H0644-01 [RY5-S-10-A]	B035766	20.0	08/18/11

Prep Method: SW-846 3050B-Tri Chrome Calc.

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0644-01 [RY5-S-10-A]	B035757	50.0	50.0	08/18/11
11H0644-02 [RY5-S-21-A]	B035757	50.0	50.0	08/18/11

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035019 - SW-846 3050B										
Blank (B035019-BLK1)				Prepared & Analyzed: 08/08/11						
Chromium	ND	0.50	mg/Kg wet							
LCS (B035019-BS1)				Prepared & Analyzed: 08/08/11						
Chromium	74.8	1.0	mg/Kg wet	71.3		105	80.6-119.9			
LCS Dup (B035019-BSD1)				Prepared & Analyzed: 08/08/11						
Chromium	74.8	1.0	mg/Kg wet	71.3		105	80.6-119.9	0.00559	30	

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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 B035743 - SM2580 A											
Duplicate (B035743-DUP1)	**Source: 11H0644-01**			Prepared & Analyzed: 08/18/11							
Oxidation/Reduction Potential	99.0		mV		106				6.83	19.4	H-12
Batch B035751 - SW-846 7196A											
Blank (B035751-BLK1)				Prepared: 08/18/11 Analyzed: 08/19/11							
Hexavalent Chromium	ND	0.16	mg/Kg wet								
LCS (B035751-BS1)				Prepared: 08/18/11 Analyzed: 08/19/11							
Hexavalent Chromium	62	1.9	mg/Kg wet	74.8		83.3		80-120			
LCS Dup (B035751-BSD1)				Prepared: 08/18/11 Analyzed: 08/19/11							
Hexavalent Chromium	71	2.0	mg/Kg wet	77.6		91.7		80-120	13.2	20	
Matrix Spike (B035751-MS4) Soluble MS 644	**Source: 11H0644-01**			Prepared: 08/18/11 Analyzed: 08/19/11							
Hexavalent Chromium	21	1.7	mg/Kg dry	42.7	ND	**48.2**	*	75-125			MS-16
Matrix Spike (B035751-MS5) PDMS 644	**Source: 11H0644-01**			Prepared: 08/18/11 Analyzed: 08/19/11							
Hexavalent Chromium	26	1.7	mg/Kg dry	42.4	ND	**61.5**	*	75-125			MS-16
Matrix Spike (B035751-MS6) Insoluble MS 644	**Source: 11H0644-01**			Prepared: 08/18/11 Analyzed: 08/19/11							
Hexavalent Chromium	530	17	mg/Kg dry	677	ND	78.2		75-125			
Matrix Spike Dup (B035751-MSD4) Soluble MS Dup 644	**Source: 11H0644-01**			Prepared: 08/18/11 Analyzed: 08/19/11							
Hexavalent Chromium	20	1.7	mg/Kg dry	42.3	ND	**48.2**	*	75-125	0.885	35	MS-16
Batch B035766 - SW-846 9045C											
Duplicate (B035766-DUP2)	**Source: 11H0644-01**			Prepared & Analyzed: 08/18/11							
pH	8.0		pH Units		7.9				1.26	8.06	H-12
Batch B035830 - SM18-20 2510B											
Blank (B035830-BLK1)				Prepared & Analyzed: 08/19/11							
Specific conductance	ND	2.0	µmhos/cm								
LCS (B035830-BS1)				Prepared & Analyzed: 08/19/11							
Specific conductance	140	2.0	µmhos/cm	147		98.3		78.2-106			

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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.
H-03	Sample received after recommended holding time was exceeded.
H-12	Analysis was performed significantly past the MA CAM recommended holding time of 24 hours for pH and ORP.
MS-16	For solid method SW846-7196A, the matrix spike is outside of control limits. pH and ORP results were indicative of reducing conditions. Reanalysis is not required. Analysis is in control based on LCS recoveries.
W-06	Elevated method detection limit due to intense color of sample

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Chromium	CT,NH,NY,ME,NC
SW-846 7196A in Soil	
Hexavalent Chromium	NY,CT,NH,NC,ME

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

1104644

CHAIN OF CUSTODY RECORD

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Email: info@contestlabs.com
www.contestlabs.com
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Page 1 of 2

~~1104192~~

Company Name: MILLENNIUM ENV. Telephone: (508) 303-2000
Address: 197M BOSTON POST RD W#318 Project # RY5
MARLBORO, MA 01752 Client PO# RY5-001
Attention: JESSE MAGGS
Project Location: READVILLE YARD 5
Sampled By: JM

DATA DELIVERY (check all that apply)
☑ FAX ☑ EMAIL ○ WEBSITE
Fax # (508) 303-8006
Email: JMAGGS@ATLANTICDEMO.com
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 777 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	ANALYSIS REQUESTED: VOCs 8260	SVOCs 8270	Herb/Pesticides 8081	PCBs 8082	TPH 8100	RCRA 8 + 6010	FLASHPOINT	REACTIVITY	Corrosivity	pH, ORP & Alkalinity	Conductivity
-01	RY5-S-10-A	8/3/11	11:30	X	X	S	U	2	I	A	X	X	X	X	X	X	X	X	X	X	X
-02	1 1 21-A	1	11:45	X	X	S	U	1	M	V	X	X	X	X	X	X	X	X	X	X	X
	Run For Hex/TriChrom &																				
	Conductivity on quickest																				
	TAT Possible. 8/17/11																				

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: 24 HR TAT, PLEASE ☑OK to Run Rest Hold
* TCLP ON METALS EXCEEDING 20X RULE

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:	Received by: (signature)	Date/Time:
	8/4/11 2:30		1430
Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:
	8/4 1810		8-4-11 1810

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

Detection Limit Requirements
Massachusetts: 2RCS-1
Connecticut:
Other:

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist

CLIENT NAME: Millennium Env. RECEIVED BY: SD DATE: 8/14/11

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 5.4

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:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	5
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	2	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

Doc# 277

Rev. 1 May 2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H0644
Project Location: Readville Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H0644-01 thru 11H0644-02

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B (X)	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☐ Yes	☑ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/23/11

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August 12, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5
Laboratory Work Order Number: 11H0377

Enclosed are results of analyses for samples received by the laboratory on August 10, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/12/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0377

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-S-10-A	11H0377-01	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S-21-A	11H0377-02	Soil		SW-846 1311	
				SW-846 6010C	

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CASE NARRATIVE SUMMARY

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

For method 6010, only lead for sample 11H0377-02 and only lead and chromium for sample 11H0377-01 results were requested and reported.

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0377

Date Received: 8/10/2011

Field Sample #: RY5-S-10-A | Sampled: 8/3/2011 11:30

Sample ID: 11H0377-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3.9	0.010	mg/L	1		SW-846 6010C	8/11/11	8/12/11 10:51	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0377

Date Received: 8/10/2011

Field Sample #: RY5-S-21-A | Sampled: 8/3/2011 11:45

Sample ID: 11H0377-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	0.010	mg/L	1		SW-846 6010C	8/11/11	8/12/11 10:57	OP
Lead	3.9	0.010	mg/L	1		SW-846 6010C	8/11/11	8/12/11 10:57	OP

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Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6010C **Leachates were extracted on 8/10/2011 per SW-846 1311 in Batch B035241**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11H0377-01 [RY5-S-10-A]	B035311	50.0	50.0	08/11/11
11H0377-02 [RY5-S-21-A]	B035311	50.0	50.0	08/11/11

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035311 - SW-846 3010A										
Blank (B035311-BLK1)				Prepared & Analyzed: 08/11/11						
Chromium	ND	0.010	mg/L							
Lead	ND	0.010	mg/L							
LCS (B035311-BS1)				Prepared & Analyzed: 08/11/11						
Chromium	0.460	0.010	mg/L	0.500		92.0	80-120			
Lead	0.463	0.010	mg/L	0.500		92.5	80-120			
LCS Dup (B035311-BSD1)				Prepared & Analyzed: 08/11/11						
Chromium	0.463	0.010	mg/L	0.500		92.6	80-120	0.596	20	
Lead	0.475	0.010	mg/L	0.500		95.0	80-120	2.67	20	

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Chromium	NY,CT,ME,NC,NH
Lead	NY,CT,ME,NC,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

1140377

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1140192

Company Name: MILLENNIUM ENV. Telephone: (508) 303-2000
Address: 197M BOSTON POST RD W#318 Project # RY5
MARLBORO, MA 01752 Client PO# RY5-001
Attention: JESSE MAGGS
Project Location: READVILLE YARD 5
Sampled By: JM

DATA DELIVERY (check all that apply)
FAX EMAIL WEBSITE
Fax # (508) 303-8006
Email: JMAGGS@ATLANTICDEMO.com
Format: PDF EXCEL GIS
OTHER
"Enhanced Data Package"

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

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	VOCs 8260	SVOCs 8270	HERB/PESTICIDES 8081	PCBs 8082	TPH 8160	RCRA 8 * 6010	FLASHPOINT	REACTIVITY	CORROSIVITY
								2	1	A	V								
-01	RY5-S-10-A	8/3/11	11:30	X	X	S	U	X	X	X	X	X	X	X	X	X	X	X	X
-02	" " 21-A	"	11:45	X	X	S	U	X	X	X	X	X	X	X	X	X	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: 72 HR TAT, PLEASE
* TCLP ON METALS EXCEEDING 20X RULE

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

	Date/Time:
Relinquished by: (signature)	8/4/11 2:30
Received by: (signature)	8/4 1430
Relinquished by: (signature)	8/4 1819
Received by: (signature)	8/4/11 1820

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

Detection Limit Requirements
Massachusetts: LRCS-1
Connecticut:
Other:

Is your project MCP or RCP?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

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

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F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: Millennium Env. RECEIVED BY: SD DATE: 8/24/11

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 5.4

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:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	5
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	2	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 2
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

Doc# 277

Rev. 1 May 2011

Jim Georgantas

From: Andrea Palpini [apalpini@contestlabs.com]
Sent: Tuesday, August 09, 2011 11:47 AM
To: James Georgantas
Subject: TCLP Reactivation Needed

11H0192-01 needs TCLP Pb
11H0192-02 needs TCLP Cr and Pb

Both samples due to 20x rule exceedance

Andrea M. Palpini
Metals Department Supervisor
Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Tel: (413) 525-2332 x56
Fax: (413) 525-6405
Email: apalpini@contestlabs.com

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H0377
Project Location: Readville Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H0377-01 thru 11H0377-02

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/12/11

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August 5, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West
Marlborough, MA 01752

Project Location: Readville, Yard 5
Client Job Number:
Project Number: RY5
Laboratory Work Order Number: 11H0196

Enclosed are results of analyses for samples received by the laboratory on August 4, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Theresa L. Ferrentino
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/5/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0196

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

PROJECT LOCATION: Readville, Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5- Concrete	11H0196-01	Concrete		SW-846 6010C SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only lead and arsenic results were requested and reported.

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

Michael A. Erickson
Laboratory Director

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Project Location: Readville, Yard 5 | Sample Description: | Work Order: 11H0196

Date Received: 8/4/2011

Field Sample #: RY5- Concrete | Sampled: 8/4/2011 11:30

Sample ID: 11H0196-01

Sample Matrix: Concrete

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB
Aroclor-1221 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB
Aroclor-1232 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB
Aroclor-1242 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB
Aroclor-1248 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB
Aroclor-1254 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB
Aroclor-1260 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB
Aroclor-1262 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB
Aroclor-1268 [1]	ND	0.020	mg/Kg	1		SW-846 8082A	8/4/11	8/5/11 12:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	84.8	30-150		8/5/11 12:27
Decachlorobiphenyl [2]	81.8	30-150		8/5/11 12:27
Tetrachloro-m-xylene [1]	85.9	30-150		8/5/11 12:27
Tetrachloro-m-xylene [2]	83.7	30-150		8/5/11 12:27

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Project Location: Readville, Yard 5 Sample Description: Work Order: 11H0196

Date Received: 8/4/2011

Field Sample #: RY5- Concrete Sampled: 8/4/2011 11:30

Sample ID: 11H0196-01

Sample Matrix: Concrete

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	6.3	2.5	mg/Kg	1		SW-846 6010C	8/5/11	8/5/11 14:47	OP
Lead	19	0.74	mg/Kg	1		SW-846 6010C	8/5/11	8/5/11 14:47	OP

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Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0196-01 [RY5- Concrete]	B034920	1.01	50.0	08/05/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0196-01 [RY5- Concrete]	B034908	10.0	10.0	08/04/11

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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 B034908 - SW-846 3546										
Blank (B034908-BLK1)				Prepared: 08/04/11 Analyzed: 08/05/11						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.772*		mg/Kg	1.00		77.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.737*		mg/Kg	1.00		73.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.800*		mg/Kg	1.00		80.0	30-150			
LCS (B034908-BS1)				Prepared: 08/04/11 Analyzed: 08/05/11						
Aroclor-1016	0.89	0.10	mg/Kg	1.00		88.6	40-140			
Aroclor-1016 [2C]	0.87	0.10	mg/Kg	1.00		87.0	40-140			
Aroclor-1260	0.91	0.10	mg/Kg	1.00		91.4	40-140			
Aroclor-1260 [2C]	0.91	0.10	mg/Kg	1.00		90.6	40-140			
Surrogate: Decachlorobiphenyl	*0.893*		mg/Kg	1.00		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.846*		mg/Kg	1.00		84.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.888*		mg/Kg	1.00		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.873*		mg/Kg	1.00		87.3	30-150			
LCS Dup (B034908-BSD1)				Prepared: 08/04/11 Analyzed: 08/05/11						
Aroclor-1016	0.93	0.10	mg/Kg	1.00		93.1	40-140	4.86	30	
Aroclor-1016 [2C]	0.89	0.10	mg/Kg	1.00		88.9	40-140	2.14	30	
Aroclor-1260	0.93	0.10	mg/Kg	1.00		93.4	40-140	2.13	30	
Aroclor-1260 [2C]	0.93	0.10	mg/Kg	1.00		92.9	40-140	2.56	30	
Surrogate: Decachlorobiphenyl	*0.914*		mg/Kg	1.00		91.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.864*		mg/Kg	1.00		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.894*		mg/Kg	1.00		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.876*		mg/Kg	1.00		87.6	30-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B034920 - SW-846 3050B										
Blank (B034920-BLK1)				Prepared & Analyzed: 08/05/11						
Arsenic	ND	2.5	mg/Kg							
Lead	ND	0.75	mg/Kg							
LCS (B034920-BS1)				Prepared & Analyzed: 08/05/11						
Arsenic	104	5.0	mg/Kg	92.6		112	83.2-117.4			
Lead	96.4	1.5	mg/Kg	92.4		104	78.9-121.1			
LCS (B034920-BS2)				Prepared & Analyzed: 08/05/11						
Lead	0.722	0.74	mg/Kg	0.738		97.8	80-120			
LCS Dup (B034920-BSD1)				Prepared & Analyzed: 08/05/11						
Arsenic	103	5.0	mg/Kg	92.6		111	83.2-117.4	1.35	30	
Lead	95.4	1.5	mg/Kg	92.4		103	78.9-121.1	1.04	30	

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Product/Solid	
Arsenic	CT,NH,NY,ME,NC
Lead	CT,NH,NY,ME,NC
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 2 of 2

11H0196

Company Name: MILLENIUM ENV.
Address: 197 M BOSTON POST RD W#318
MARLBORO, MA 01752
Attention: JESSE MAGGS
Project Location: REVERE YARD 5
Sampled By: JM

Telephone: (508) 303-2000
Project # RY5
Client PO# RY5-061

DATA DELIVERY (check all that apply)
☑ FAX ☑ EMAIL ☐ WEBSITE
Fax # (508) 303-0006
Email: JMAGGS@ATLANTICDEMO.COM
Format: ☑ PDF ☑ EXCEL ☐ GIS
☐ OTHER
☐ "Enhanced Data Package"

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

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	*ARSENIC TOTAL	*LEAD TOTAL	PCBs	Dissolved Metals (Field Filtered / Lab to Filter)
								1		A				
-01	RY5-CONCRETE	8/4/11	11:30	X		O	U				X	X	X	

ANALYSIS REQUESTED

***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: 24 HR TAT, PLEASE! * TCLP ON METALS EXCEEDING 20X

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:
	8/4/11 2:30
Received by: (signature)	Date/Time:
	8/4 1420
Relinquished by: (signature)	Date/Time:
	8/4 1810
Received by: (signature)	Date/Time:
	8/4/11 1810

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

Detection Limit Requirements
Massachusetts: < RCS-1
Connecticut:
Other:

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
☐ RCP Analysis Certification Form Required
☐ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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: Millennium Env. RECEIVED BY: SO/AL DATE: 8/4/11

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 5.4°C

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 C.C. Date 8/4/11 Time 1810

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature:

Containers received at Con-Test

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

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A)

Do all samples have the proper Base pH: Yes No (N/A)

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H0196
Project Location: Readville, Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H0196-01

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including tempereture) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the anelytical method(s) end all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/05/11

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

August 16, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5
Laboratory Work Order Number: 11H0535

Enclosed are results of analyses for samples received by the laboratory on August 15, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/16/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0535

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5 - Wood	11H0535-01	Product/Solid		SW-846 1311 SW-846 6010C	

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CASE NARRATIVE SUMMARY

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

For method 6010, only lead was requested and reported.

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0535

Date Received: 8/15/2011

Field Sample #: RY5 - Wood | Sampled: 8/9/2011 11:50

Sample ID: 11H0535-01

Sample Matrix: Product/Solid

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.093	0.010	mg/L	1		SW-846 6010C	8/16/11	8/16/11 15:09	OP

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Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6010C **Leachates were extracted on 8/15/2011 per SW-846 1311 in Batch B035447**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11H0535-01 [RY5 - Wood]	B035558	50.0	50.0	08/16/11

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035558 - SW-846 3010A										
Blank (B035558-BLK1)				Prepared & Analyzed: 08/16/11						
Lead	ND	0.010	mg/L							
LCS (B035558-BS1)				Prepared & Analyzed: 08/16/11						
Lead	0.503	0.010	mg/L	0.500		101	80-120			
LCS Dup (B035558-BSD1)				Prepared & Analyzed: 08/16/11						
Lead	0.498	0.010	mg/L	0.500		99.6	80-120	1.07	20	

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Lead	NY,CT,ME,NC,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

1170535

CHAIN OF CUSTODY RECORD

1110338

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Page 1 of 1

Company Name: MILLENIUM ENVIRONMENTAL Telephone: (508) 303-2000

Address: 197M BOSTON POST RD. W #318 Project # RYS

MARLBORO, MA 01752 Client PO# RYS-001

Attention: JESSE MAGGS

Project Location: READVILLE YARDS

Sampled By: JM

Project Proposal Provided? (for billing purposes)
☑ yes 27 proposal date

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax # (508) 303-0006
Email: JMAGGS@ATLANTICDEMO.COM
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

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	ANALYSIS REQUESTED: LEAD	ARSENIC	PCBs	TULP PbA
								1	1	1				
										HEX				
								A	P	G				
-1	RYS - WOOD	8/9/11	11:50	X		O	U				X	X	X	X
-2	" METAL	"	↓ *		X	O	U				X	X	X	
-3	" GRANITE	"	12:00		X	O	U				X	X	X	

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: The actuals per 20x RULE SM 8/8/15

* Time of 11:55 taken from Sample container label - CAB

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:
	8/9/11 1439
Received by: (signature)	Date/Time:
	8/9 1439
Relinquished by: (signature)	Date/Time:
	8/9 1713
Received by: (signature)	Date/Time:
	8/9 1715

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

Detection Limit Requirements
Massachusetts: RCS-1
Connecticut:
Other:

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

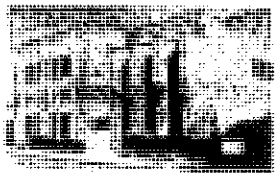
†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist



CLIENT NAME: Millennium Environmental RECEIVED BY: SD DATE: 8/9/17

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No
If not, explain:

3) Are all the samples in good condition? (Yes) No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

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

Temperature °C by Temp blank 4.5 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes (No)
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

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

Containers received at Con-Test

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

Laboratory Comments:

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

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

Doc# 277

Rev. 1 May 2011

Jim Georgantas

From: Susan M. Burney [sburney@contestlabs.com]
Sent: Monday, August 15, 2011 10:18 AM
To: jgeorgantas@contestlabs.com
Cc: 'Theresa Ferrentino'
Subject: Rush Reactivation

Importance: High

Jim
Jesse of Millenium needs a RUSH reactivation 24hr TCLP Lead
On 11H0338

All three samples: RY5 wood, [redacted]

Please let me know of any delays

Thanks!
Sue

Susan Burney
Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
413-525-2332
sburney@contestlabs.com

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H0535
Project Location: Readville Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H0535-01

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]
	A response to questions G, H and I below is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]
	<u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.		
H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/16/11

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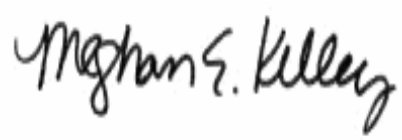
August 17, 2011

Elissa Brown
AECOM Environment - Chelmsford, MA
250 Apollo Drive
Chelmsford, MA 01824

Project Location: Readville
Client Job Number:
Project Number: 60133920
Laboratory Work Order Number: 11H0411

Enclosed are results of analyses for samples received by the laboratory on August 10, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Meghan E. Kelley
Project Manager

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

AECOM Environment - Chelmsford, MA
250 Apollo Drive
Chelmsford, MA 01824
ATTN: Elissa Brown

REPORT DATE: 8/17/2011

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 60133920

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0411

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

PROJECT LOCATION: Readville

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Stock S10B S10C	11H0411-01	Soil		SM 2540G SW-846 1311 SW-846 6010C	

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CASE NARRATIVE SUMMARY

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

For method 6010, only lead was requested and reported.

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

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

Project Location: Readville | Sample Description: | Work Order: 11H0411

Date Received: 8/10/2011

Field Sample #: Stock S10B S10C | Sampled: 8/10/2011 07:20

Sample ID: 11H0411-01

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3000	0.90	mg/Kg dry	1		SW-846 6010C	8/15/11	8/15/11 19:49	OP

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Project Location: Readville | Sample Description: | Work Order: 11H0411

Date Received: 8/10/2011

Field Sample #: Stock S10B S10C | Sampled: 8/10/2011 07:20

Sample ID: 11H0411-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	8/12/11	8/14/11 13:37	VAF

con-test® ANALYTICAL LABORATORY
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Project Location: Readville | Sample Description: | Work Order: 11H0411

Date Received: 8/10/2011

Field Sample #: Stock S10B S10C | Sampled: 8/10/2011 07:20

Sample ID: 11H0411-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	12	0.010	mg/L	1		SW-846 6010C	8/15/11	8/16/11 17:39	OP

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11H0411-01 [Stock S10B S10C]	B035429	08/12/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0411-01 [Stock S10B S10C]	B035481	1.00	50.0	08/15/11

Prep Method: SW-846 3010A-SW-846 6010C **Leachates were extracted on 8/11/2011 per SW-846 1311 in Batch B035344**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11H0411-01 [Stock S10B S10C]	B035496	50.0	50.0	08/15/11

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035481 - SW-846 3050B										
Blank (B035481-BLK1)				Prepared & Analyzed: 08/15/11						
Lead	ND	0.75	mg/Kg wet							
LCS (B035481-BS1)				Prepared & Analyzed: 08/15/11						
Lead	87.0	1.5	mg/Kg wet	92.4		94.2	78.9-121.1			
LCS (B035481-BS2)				Prepared & Analyzed: 08/15/11						
Lead	0.779	0.76	mg/Kg wet	0.760		103	80-120			
LCS Dup (B035481-BSD1)				Prepared & Analyzed: 08/15/11						
Lead	88.1	1.5	mg/Kg wet	92.4		95.3	78.9-121.1	1.20	30	

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035496 - SW-846 3010A										
Blank (B035496-BLK1)				Prepared: 08/15/11 Analyzed: 08/16/11						
Lead	ND	0.010	mg/L							
LCS (B035496-BS1)				Prepared: 08/15/11 Analyzed: 08/16/11						
Lead	0.515	0.010	mg/L	0.500		103	80-120			
LCS Dup (B035496-BSD1)				Prepared: 08/15/11 Analyzed: 08/16/11						
Lead	0.504	0.010	mg/L	0.500		101	80-120	2.07	20	

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Soil	
Lead	CT,NH,NY,AIHA,ME,NC
SW-846 6010C in Water	
Lead	NY,CT,ME,NC,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

11H0411

CHAIN OF CUSTODY RECORD

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Page 1 of 1

Company Name: AECOM
Address: 250 Apollo Drive
~~West~~ Chelmsford MA
Attention: Elissa Brown
Project Location: Readville
Sampled By: Mark Newell

Telephone: 978 905 2345
Project # 60133920
Client PO#

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

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

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	ANALYSIS REQUESTED: TCLP Lead	ANALYSIS REQUESTED: Lead Total
								1	1	A		
-1	Stock S10B + S10C	8/10/11	8/10/11 1520	X		S	A				X	X

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:
Hot samples prior to treatment.

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:
Mark Newell	8/10/11
Received by: (signature) Steph Maffa 1720	Date/Time: 8.10.11
Relinquished by: (signature) Steph Maffa 1920	Date/Time: 8.10.11
Received by: (signature)	Date/Time: 8/10 1920

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

Detection Limit Requirements
Massachusetts: RCS-1
Connecticut:
Other:

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

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

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

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Sample Receipt Checklist

CLIENT NAME: AECOM RECEIVED BY: SD DATE: 8/10/11

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

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

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

Temperature °C by Temp blank 2.5 Temperature °C by Temp gun _____

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

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

Containers received at Con-Test

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

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H0411
Project Location: Readville	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H0411-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]
	A response to questions G, H and I below is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]
	<u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.		
H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 08/17/11

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

August 19, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5-001
Laboratory Work Order Number: 11H0564

Enclosed are results of analyses for samples received by the laboratory on August 15, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/19/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5-001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0564

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-Tailings	11H0564-02	Product/Solid		SW-846 1311 SW-846 6010C	

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CASE NARRATIVE SUMMARY

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

For method 6010, only lead was requested and reported.

SW-846 6010C

Qualifications:

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

Analyte & Samples(s) Qualified:

Lead

11H0564-02[RY5-Tailings], B035635-BS1, B035635-BSD1, B035635-MS1

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Lead

11H0564-02[RY5-Tailings], B035635-BLK1

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



Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY
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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0564

Date Received: 8/15/2011

Field Sample #: RY5-Tailings | Sampled: 8/11/2011 12:05

Sample ID: 11H0564-02

Sample Matrix: Product/Solid

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	4.1	0.010	mg/L	1	B-07, B	SW-846 6010C	8/17/11	8/17/11 13:44	OP

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Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6010C **Leachates were extracted on 8/16/2011 per SW-846 1311 in Batch B035571**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11H0564-02 [RY5-Tailings]	B035635	50.0	50.0	08/17/11

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035635 - SW-846 3010A										
Blank (B035635-BLK1)				Prepared & Analyzed: 08/17/11						
Lead	0.012	0.010	mg/L							B-07
LCS (B035635-BS1)				Prepared & Analyzed: 08/17/11						
Lead	0.493	0.010	mg/L	0.500		98.6	80-120			B
LCS Dup (B035635-BSD1)				Prepared & Analyzed: 08/17/11						
Lead	0.489	0.010	mg/L	0.500		97.9	80-120	0.695	20	B
Matrix Spike (B035635-MS1)	**Source: 11H0564-02**			Prepared & Analyzed: 08/17/11						
Lead	4.67	0.010	mg/L	0.500	4.15	105	75-125			B

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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.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Lead	NY,CT,ME,NC,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

1104564

CHAIN OF CUSTODY RECORD

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Page_____of_____

~~1104484~~

Company Name: MILLENIUM ENVIRONMENTAL Telephone: (508)303-2000
Address: 197M BOSTON POST RD W #318 Project # RYS-001
MARLBORO, MA 01752 Client PO#
Attention: JESSE MAGGS
Project Location: READVILLE YARD 5
Sampled By: JM

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

DATA DELIVERY (check all that apply)
✓ FAX ✓ EMAIL ○ WEBSITE
Fax # (508)303-0006
Email: JMAGGS@ATLANTICDEMO.COM
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER _____
○ "Enhanced Data Package"

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	PCBs	LEAD	ARSENIC	TCLP Pb
01	RYS-METAL(2)	8/11/11	12:00		X	O	U	1		A	X	X	X	X
02	" TAILINGS	"	12:05	X		S	U	1	HEX	P	X	X	X	X
										G				

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: TCLP ON METALS EXCEEDING 20X

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

	Date/Time
Relinquished by: (signature)	8/11/11 12:30
Received by: (signature)	8-11-11 1445
Relinquished by: (signature)	8/11/11 1930
Received by: (signature) 5.4c	8/11/11 19:20

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

Detection Limit Requirements
Massachusetts: RCS1
Connecticut:
Other:

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

NELAC & AIHA Certified
WBE/DBE Certified

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

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Sample Receipt Checklist

CLIENT NAME: Millenium Environmental RECEIVED BY: CW DATE: 8/11/14

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 (2-5°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.4 °C

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: 17

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

Containers received at Con-Test

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

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

Doc# 277

Rev. 1 May 2011

Jim Georgantas

From: Andrea Palpini [apalpini@contestlabs.com]
Sent: Monday, August 15, 2011 2:56 PM
To: James Georgantas
Subject: 11H0484 TCLP React

Please reactivate 11H0484-01 and 02 for TCLP lead due to 20x rule exceedance

Andrea M. Palpini
Metals Department Supervisor
Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Tel: (413) 525-2332 x56
Fax: (413) 525-6405
Email: apalpini@contestlabs.com

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H0564
Project Location: Readville Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H0564-02

Matrices: Product/Solid Wipe

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 08/19/11

con-test® ANALYTICAL LABORATORY
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August 16, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5-001
Laboratory Work Order Number: 11H0484

Enclosed are results of analyses for samples received by the laboratory on August 11, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/16/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5-001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0484

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-Metals (2)	11H0484-01	Product/Solid		SW-846 6010C	
				SW-846 8082A	
RY5-Tailings	11H0484-02	Product/Solid		SW-846 6010C	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

SW-846 8082A

Qualifications:

Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C], Tetrachloro-m-xylene [2C]

B035501-BS1, B035501-BSD1

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



Michael A. Erickson
Laboratory Director

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0484

Date Received: 8/11/2011

Field Sample #: RY5-Metals (2) | Sampled: 8/11/2011 12:00

Sample ID: 11H0484-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	8/15/11	8/15/11 14:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.2	30-150		8/15/11 14:49
Decachlorobiphenyl [2]	109	30-150		8/15/11 14:49
Tetrachloro-m-xylene [1]	107	30-150		8/15/11 14:49
Tetrachloro-m-xylene [2]	103	30-150		8/15/11 14:49

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0484

Date Received: 8/11/2011

Field Sample #: RY5-Metals (2) | Sampled: 8/11/2011 12:00

Sample ID: 11H0484-01

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.8	mg/Kg	1		SW-846 6010C	8/12/11	8/15/11 12:39	OP
Lead	390	0.83	mg/Kg	1		SW-846 6010C	8/12/11	8/15/11 12:39	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0484

Date Received: 8/11/2011

Field Sample #: RY5-Tailings | Sampled: 8/11/2011 12:05

Sample ID: 11H0484-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/11	8/15/11 15:03	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	70.4	30-150		8/15/11 15:03
Decachlorobiphenyl [2]	89.9	30-150		8/15/11 15:03
Tetrachloro-m-xylene [1]	71.2	30-150		8/15/11 15:03
Tetrachloro-m-xylene [2]	67.1	30-150		8/15/11 15:03

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0484

Date Received: 8/11/2011

Field Sample #: RY5-Tailings | Sampled: 8/11/2011 12:05

Sample ID: 11H0484-02

Sample Matrix: Product/Solid

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	2.9	2.5	mg/Kg	1		SW-846 6010C	8/12/11	8/15/11 12:44	OP
Lead	2700	0.75	mg/Kg	1		SW-846 6010C	8/12/11	8/15/11 12:44	OP

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Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0484-01 [RY5-Metals (2)]	B035367	0.902	50.0	08/12/11
11H0484-02 [RY5-Tailings]	B035367	1.00	50.0	08/12/11

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11H0484-02 [RY5-Tailings]	B035457	2.00	10.0	08/15/11

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

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
11H0484-01 [RY5-Metals (2)]	B035501	1.00	10.0	08/15/11

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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 B035457 - SW-846 3510C										
Blank (B035457-BLK1)				Prepared & Analyzed: 08/15/11						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.32*		mg/Kg	1.00		132	30-150			
Surrogate: Tetrachloro-m-xylene	*1.22*		mg/Kg	1.00		122	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	1.00		116	30-150			
LCS (B035457-BS1)				Prepared & Analyzed: 08/15/11						
Aroclor-1016	0.34	0.10	mg/Kg	0.250		135	40-140			
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250		130	40-140			
Aroclor-1260	0.30	0.10	mg/Kg	0.250		121	40-140			
Aroclor-1260 [2C]	0.32	0.10	mg/Kg	0.250		127	40-140			
Surrogate: Decachlorobiphenyl	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.35*		mg/Kg	1.00		135	30-150			
Surrogate: Tetrachloro-m-xylene	*1.29*		mg/Kg	1.00		129	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.25*		mg/Kg	1.00		125	30-150			
LCS Dup (B035457-BSD1)				Prepared & Analyzed: 08/15/11						
Aroclor-1016	0.33	0.10	mg/Kg	0.250		133	40-140	1.53	30	
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250		131	40-140	0.892	30	
Aroclor-1260	0.31	0.10	mg/Kg	0.250		123	40-140	0.984	30	
Aroclor-1260 [2C]	0.32	0.10	mg/Kg	0.250		128	40-140	1.07	30	
Surrogate: Decachlorobiphenyl	*1.18*		mg/Kg	1.00		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.40*		mg/Kg	1.00		140	30-150			
Surrogate: Tetrachloro-m-xylene	*1.35*		mg/Kg	1.00		135	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.31*		mg/Kg	1.00		131	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 B035501 - SW-846 3546											
Blank (B035501-BLK1)				Prepared & Analyzed: 08/15/11							
Aroclor-1016	ND	0.10	µg/Wipe								
Aroclor-1016 [2C]	ND	0.10	µg/Wipe								
Aroclor-1221	ND	0.10	µg/Wipe								
Aroclor-1221 [2C]	ND	0.10	µg/Wipe								
Aroclor-1232	ND	0.10	µg/Wipe								
Aroclor-1232 [2C]	ND	0.10	µg/Wipe								
Aroclor-1242	ND	0.10	µg/Wipe								
Aroclor-1242 [2C]	ND	0.10	µg/Wipe								
Aroclor-1248	ND	0.10	µg/Wipe								
Aroclor-1248 [2C]	ND	0.10	µg/Wipe								
Aroclor-1254	ND	0.10	µg/Wipe								
Aroclor-1254 [2C]	ND	0.10	µg/Wipe								
Aroclor-1260	ND	0.10	µg/Wipe								
Aroclor-1260 [2C]	ND	0.10	µg/Wipe								
Aroclor-1262	ND	0.10	µg/Wipe								
Aroclor-1262 [2C]	ND	0.10	µg/Wipe								
Aroclor-1268	ND	0.10	µg/Wipe								
Aroclor-1268 [2C]	ND	0.10	µg/Wipe								
Surrogate: Decachlorobiphenyl	*1.13*		µg/Wipe	1.00		113		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.34*		µg/Wipe	1.00		134		30-150			
Surrogate: Tetrachloro-m-xylene	*1.21*		µg/Wipe	1.00		121		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.34*		µg/Wipe	1.00		134		30-150			
LCS (B035501-BS1)				Prepared & Analyzed: 08/15/11							
Aroclor-1016	0.31	0.10	µg/Wipe	0.250		126		40-140			
Aroclor-1016 [2C]	0.30	0.10	µg/Wipe	0.250		122		40-140			
Aroclor-1260	0.31	0.10	µg/Wipe	0.250		126		40-140			
Aroclor-1260 [2C]	0.33	0.10	µg/Wipe	0.250		132		40-140			
Surrogate: Decachlorobiphenyl	*1.20*		µg/Wipe	1.00		120		40-140			
Surrogate: Decachlorobiphenyl [2C]	*1.43*		µg/Wipe	1.00		**143**	*	40-140			S-23
Surrogate: Tetrachloro-m-xylene	*1.29*		µg/Wipe	1.00		129		40-140			
Surrogate: Tetrachloro-m-xylene [2C]	*1.44*		µg/Wipe	1.00		**144**	*	40-140			S-23
LCS Dup (B035501-BSD1)				Prepared & Analyzed: 08/15/11							
Aroclor-1016	0.28	0.10	µg/Wipe	0.250		114		40-140	9.80	30	
Aroclor-1016 [2C]	0.25	0.10	µg/Wipe	0.250		100		40-140	19.4	30	
Aroclor-1260	0.29	0.10	µg/Wipe	0.250		118		40-140	6.74	30	
Aroclor-1260 [2C]	0.30	0.10	µg/Wipe	0.250		122		40-140	8.35	30	
Surrogate: Decachlorobiphenyl	*1.13*		µg/Wipe	1.00		113		40-140			
Surrogate: Decachlorobiphenyl [2C]	*1.35*		µg/Wipe	1.00		135		40-140			
Surrogate: Tetrachloro-m-xylene	*1.30*		µg/Wipe	1.00		130		40-140			
Surrogate: Tetrachloro-m-xylene [2C]	*1.47*		µg/Wipe	1.00		**147**	*	40-140			S-23

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035367 - SW-846 3050B										
Blank (B035367-BLK1)				Prepared: 08/12/11 Analyzed: 08/15/11						
Arsenic	ND	2.5	mg/Kg							
Lead	ND	0.75	mg/Kg							
LCS (B035367-BS1)				Prepared: 08/12/11 Analyzed: 08/15/11						
Arsenic	98.1	5.1	mg/Kg	92.6		106	83.2-117.4			
Lead	92.5	1.5	mg/Kg	92.4		100	78.9-121.1			
LCS (B035367-BS2)				Prepared: 08/12/11 Analyzed: 08/15/11						
Lead	0.747	0.72	mg/Kg	0.724		103	80-120			
LCS Dup (B035367-BSD1)				Prepared: 08/12/11 Analyzed: 08/15/11						
Arsenic	98.8	5.1	mg/Kg	92.6		107	83.2-117.4	0.665	30	
Lead	93.3	1.5	mg/Kg	92.4		101	78.9-121.1	0.844	30	

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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.
S-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Product/Solid	
Arsenic	CT,NH,NY,ME,NC
Lead	CT,NH,NY,ME,NC
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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CHAIN OF CUSTODY RECORD

11H0484

Page____of____

Company Name: MILLENIUM ENVIRONMENTAL
Address: 197M BOSTON POST RD W#318 MARLBORO, MA 01752
Attention: JESSE MAGGS
Project Location: READVILLE YARDS
Sampled By: JM

Telephone: (508)303-2000
Project #: RYS-001
Client PO#:

DATA DELIVERY (check all that apply)
☑ FAX ☑ EMAIL ○ WEBSITE
Fax #: (508)303-2006
Email: JMAGGS@ATLANTICDEMO.COM
Format: ☑ PDF ☑ EXCEL ○ GIS ○ OTHER____ ○ "Enhanced Data Package"

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

								PCBs	LEAD	ARSENIC
# of Containers								1	1	1
** Preservation										HEX
***Container Code								A	P	G
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			
01	RYS-METAL(2)	8/11/11	12:00		X	O	U	X	X	X
02	↓ TAILINGS	↓	12:05	X		S	U	X	X	X

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Comments: TCLP ON METALS EXCEEDING 20X

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

	Date/Time:
Relinquished by: (signature) [signature]	8/11/11 12:30
Received by: (signature) [signature]	8-11-11 1445
Relinquished by: (signature) [signature]	8-11-11 1920
Received by: (signature) [signature] 5.4°	8/11/11 19:20

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

Detection Limit Requirements
Massachusetts: RCS1
Connecticut:
Other:

Is your project MCP or RCP ?
○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ________

NELAC & AIHA Certified
WBE/DBE Certified

***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________

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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: Millenium Environmental RECEIVED BY: CB DATE: 8/11/11

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 5.4 °C

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: 17

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

Containers received at Con-Test

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

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

Doc# 277

Rev. 1 May 2011

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

August 22, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5-001
Laboratory Work Order Number: 11H0527

Enclosed are results of analyses for samples received by the laboratory on August 12, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/22/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5-001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0527

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-TSP1(0-200) Conf.	11H0527-01	Soil		SW-846 1311	
				SW-846 6010C	
RY5-TSP1(0-200) Conf.	11H0527-02	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
RY5-TSP1(200-400) Conf.	11H0527-03	Soil		SW-846 1311	
				SW-846 6010C	
RY5-TSP1(200-400) Conf.	11H0527-04	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
RY5-TSP1(400-600) Conf.	11H0527-05	Soil		SW-846 1311	
				SW-846 6010C	

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Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 8/22/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5-001

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H0527

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-TSP1(400-600) Conf.	11H0527-06	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
RY5-TSP1(600-700) Conf.	11H0527-07	Soil		SW-846 1311	
				SW-846 6010C	
RY5-TSP1(600-700) Conf.	11H0527-08	Soil		SM 2540G	
				SM18-20 2510B	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

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.

For method 6010, only RCRA 8 metals and TCLP lead results were requested and reported.

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SW-846 6010C

Qualifications:

Continuing calibration blank did not meet method specified criteria. Data is not affected since all associated samples were "Not Detected" even though CCB value was above the reporting limit.

Analyte & Samples(s) Qualified:

Silver

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.]

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the low side.

Analyte & Samples(s) Qualified:

Lead

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.], B035543-BS2

SW-846 8081B

Qualifications:

Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.

Analyte & Samples(s) Qualified:

Methoxychlor, Methoxychlor [2C]

11H0527-02[RY5-TSP1(0-200) Conf.], B035461-MS1, B035461-MSD1

Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the low side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.

Analyte & Samples(s) Qualified:

4,4'-DDT, 4,4'-DDT [2C], Methoxychlor, Methoxychlor [2C]

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.], B035461-MS1, B035461-MSD1

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. The higher result was reported.

Analyte & Samples(s) Qualified:

4,4'-DDD, 4,4'-DDT [2C]

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.]

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

Analyte & Samples(s) Qualified:

4,4'-DDE, beta-BHC, beta-BHC [2C], delta-BHC, Endrin Ketone

11H0527-02[RY5-TSP1(0-200) Conf.], B035461-MS1, B035461-MSD1

Continuing calibration verification was outside of control limits on the confirmation column, but within control limits on the primary column. All sample results are reported from the column within control criteria.

Analyte & Samples(s) Qualified:

Chlordane [2C]

11H0527-02[RY5-TSP1(0-200) Conf.]

SW-846 8260C

Qualifications:

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

Analyte & Samples(s) Qualified:

Vinyl Chloride

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.], B035475-BLK1, B035475-BS1, B035475-BSD1

Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:

1,4-Dioxane, Bromomethane, Chloromethane, Dichlorodifluoromethane (Freon 12)

B035475-BS1, B035475-BSD1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Bromoform, Carbon Disulfide, Carbon Tetrachloride, Methylene Chloride, Tetrahydrofuran

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.]

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:

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 2,2-Dichloropropane, Naphthalene

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.], B035475-BLK1, B035475-BS1, B035475-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.], B035475-BLK1, B035475-BS1, B035475-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

B035475-BS1, B035475-BSD1

SW-846 8270D

Qualifications:

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

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.]

Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

Analyte & Samples(s) Qualified:

2,4,6-Tribromophenol

B035466-BSD1

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

Analyte & Samples(s) Qualified:

Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.]

Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, 3,3-Dichlorobenzidine

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.], B035466-BLK1, B035466-BS1, B035466-BSD1

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

Analyte & Samples(s) Qualified:

2,4-Dinitrophenol, Benzo(g,h,i)perylene, Dibenz(a,h)anthracene, Di-n-octylphthalate, Indeno(1,2,3-cd)pyrene

11H0527-02[RY5-TSP1(0-200) Conf.], 11H0527-04[RY5-TSP1(200-400) Conf.], 11H0527-06[RY5-TSP1(400-600) Conf.], 11H0527-08[RY5-TSP1(600-700) Conf.]

SW-846 8100 Modified

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

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for “difficult analytes” where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Daren J. Damboragian
Laboratory Manager

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	8/16/11	8/17/11 21:40	OP

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1.8	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Benzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Bromobenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Bromochloromethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Bromodichloromethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Bromoform	ND	0.18	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Bromomethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
2-Butanone (MEK)	ND	0.73	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
n-Butylbenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
sec-Butylbenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
tert-Butylbenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Carbon Disulfide	ND	0.37	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Carbon Tetrachloride	ND	0.18	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Chlorobenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Chlorodibromomethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Chloroethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Chloroform	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Chloromethane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
2-Chlorotoluene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
4-Chlorotoluene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.18	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2-Dibromoethane (EDB)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Dibromomethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2-Dichlorobenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,3-Dichlorobenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,4-Dichlorobenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,1-Dichloroethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2-Dichloroethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,1-Dichloroethylene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
cis-1,2-Dichloroethylene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
trans-1,2-Dichloroethylene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2-Dichloropropane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,3-Dichloropropane	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
2,2-Dichloropropane	ND	0.037	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,1-Dichloropropene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
cis-1,3-Dichloropropene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
trans-1,3-Dichloropropene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Diethyl Ether	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Diisopropyl Ether (DIPE)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,4-Dioxane	ND	1.8	mg/Kg dry	1	V-16	SW-846 8260C	8/15/11	8/16/11 3:45	LBD

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Hexachlorobutadiene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
2-Hexanone (MBK)	ND	0.37	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Isopropylbenzene (Cumene)	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Methylene Chloride	ND	0.18	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.37	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Naphthalene	ND	0.073	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
n-Propylbenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Styrene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,1,1,2-Tetrachloroethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,1,2,2-Tetrachloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Tetrachloroethylene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Tetrahydrofuran	ND	0.37	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Toluene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2,3-Trichlorobenzene	ND	0.18	mg/Kg dry	1	RL-07, V-05	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2,4-Trichlorobenzene	ND	0.037	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,1,1-Trichloroethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,1,2-Trichloroethane	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Trichloroethylene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Trichlorofluoromethane (Freon 11)	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2,3-Trichloropropane	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,2,4-Trimethylbenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
1,3,5-Trimethylbenzene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
Vinyl Chloride	ND	0.073	mg/Kg dry	1	L-04	SW-846 8260C	8/15/11	8/16/11 3:45	LBD
m+p Xylene	ND	0.073	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD
o-Xylene	ND	0.037	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 3:45	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	101	70-130		8/16/11 3:45
Toluene-d8	97.0	70-130		8/16/11 3:45
4-Bromofluorobenzene	103	70-130		8/16/11 3:45

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.8	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Acenaphthylene	0.32	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Acetophenone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Aniline	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Anthracene	6.1	1.9	mg/Kg dry	10		SW-846 8270D	8/15/11	8/16/11 21:57	BGL
Benzo(a)anthracene	9.0	1.9	mg/Kg dry	10		SW-846 8270D	8/15/11	8/16/11 21:57	BGL
Benzo(a)pyrene	8.0	1.9	mg/Kg dry	10		SW-846 8270D	8/15/11	8/16/11 21:57	BGL
Benzo(b)fluoranthene	11	1.9	mg/Kg dry	10		SW-846 8270D	8/15/11	8/16/11 21:57	BGL
Benzo(g,h,i)perylene	2.9	0.19	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Benzo(k)fluoranthene	3.0	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Bis(2-chloroethoxy)methane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Bis(2-chloroethyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Bis(2-chloroisopropyl)ether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
4-Bromophenylphenylether	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Butylbenzylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
4-Chloroaniline	ND	0.72	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2-Chloronaphthalene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2-Chlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Chrysene	8.6	1.9	mg/Kg dry	10		SW-846 8270D	8/15/11	8/16/11 21:57	BGL
Dibenz(a,h)anthracene	0.81	0.19	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Dibenzofuran	1.2	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Di-n-butylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
1,2-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
1,3-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
1,4-Dichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-19	SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2,4-Dichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Diethylphthalate	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2,4-Dimethylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Dimethylphthalate	ND	0.72	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2,4-Dinitrophenol	ND	0.72	mg/Kg dry	1	V-19, V-20	SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2,4-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2,6-Dinitrotoluene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Di-n-octylphthalate	ND	0.72	mg/Kg dry	1	V-20	SW-846 8270D	8/15/11	8/16/11 8:52	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Fluoranthene	19	1.9	mg/Kg dry	10		SW-846 8270D	8/15/11	8/16/11 21:57	BGL
Fluorene	2.0	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Hexachlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Hexachlorobutadiene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Hexachloroethane	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Indeno(1,2,3-cd)pyrene	3.1	0.19	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Isophorone	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
3/4-Methylphenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Nitrobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2-Nitrophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
4-Nitrophenol	ND	0.72	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Pentachlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Phenanthrene	19	1.9	mg/Kg dry	10		SW-846 8270D	8/15/11	8/16/11 21:57	BGL
Phenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
Pyrene	16	1.9	mg/Kg dry	10		SW-846 8270D	8/15/11	8/16/11 21:57	BGL
1,2,4-Trichlorobenzene	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2,4,5-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL
2,4,6-Trichlorophenol	ND	0.37	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 8:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	71.4	30-130		8/16/11 8:52
Phenol-d6	69.4	30-130		8/16/11 8:52
Nitrobenzene-d5	59.1	30-130		8/16/11 8:52
2-Fluorobiphenyl	76.3	30-130		8/16/11 8:52
2,4,6-Tribromophenol	90.9	30-130		8/16/11 8:52
Terphenyl-d14	60.5	30-130		8/16/11 8:52

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
alpha-BHC [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
beta-BHC [1]	ND	0.0055	mg/Kg dry	1	R-06	SW-846 8081B	8/15/11	8/21/11 0:16	PJG
delta-BHC [1]	ND	0.0055	mg/Kg dry	1	R-06	SW-846 8081B	8/15/11	8/21/11 0:16	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Chlordane [2]	0.046	0.022	mg/Kg dry	1	V-24	SW-846 8081B	8/15/11	8/21/11 0:16	PJG
4,4'-DDD [1]	0.0082	0.0044	mg/Kg dry	1	P-01	SW-846 8081B	8/15/11	8/21/11 0:16	PJG
4,4'-DDE [1]	ND	0.0044	mg/Kg dry	1	R-06	SW-846 8081B	8/15/11	8/21/11 0:16	PJG
4,4'-DDT [2]	0.013	0.0044	mg/Kg dry	1	O-28	SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Dieldrin [1]	ND	0.0044	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Endosulfan I [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Endosulfan II [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Endosulfan sulfate [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Endrin [1]	ND	0.0088	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Endrin ketone [1]	ND	0.0088	mg/Kg dry	1	R-06	SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Heptachlor [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Heptachlor epoxide [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Hexachlorobenzene [1]	ND	0.0055	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:16	PJG
Methoxychlor [1]	ND	0.055	mg/Kg dry	1	MS-15, O-28	SW-846 8081B	8/15/11	8/21/11 0:16	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		8/21/11 0:16
Decachlorobiphenyl [2]	86.2	30-150		8/21/11 0:16
Tetrachloro-m-xylene [1]	64.6	30-150		8/21/11 0:16
Tetrachloro-m-xylene [2]	67.7	30-150		8/21/11 0:16

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	73.7	30-150		8/17/11 23:11
Decachlorobiphenyl [2]	80.7	30-150		8/17/11 23:11
Tetrachloro-m-xylene [1]	94.9	30-150		8/17/11 23:11
Tetrachloro-m-xylene [2]	120	30-150		8/17/11 23:11

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	420	370	mg/Kg dry	40		SW-846 8100 Modified	8/15/11	8/17/11 12:56	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl	58.4	40-140		8/17/11 12:56

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	11	2.7	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:18	OP
Barium	650	2.7	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:18	OP
Cadmium	5.0	0.27	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:18	OP
Chromium	44	0.55	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:18	OP
Lead	2700	0.82	mg/Kg dry	1	M-12	SW-846 6010C	8/16/11	8/17/11 21:18	OP
Mercury	0.95	0.14	mg/Kg dry	5		SW-846 7471B	8/15/11	8/16/11 13:45	CWB
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:18	OP
Silver	ND	0.55	mg/Kg dry	1	B-06	SW-846 6010C	8/16/11	8/17/11 21:18	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	8/17/11	8/17/11 16:25	DEF
pH @18.8°C	10		pH Units	1		SW-846 9045C	8/12/11	8/12/11 19:00	AED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/17/11	8/17/11 15:30	LL
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	8/17/11	8/17/11 17:00	DEF
Specific conductance	240	2.0	µmhos/cm	1		SM18-20 2510B	8/17/11	8/17/11 13:16	SBP
% Solids	90.7		% Wt	1		SM 2540G	8/14/11	8/15/11 8:44	PJS

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(0-200) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4-DB	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4,5-TP (Silvex)	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4,5-T	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dalapon	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dicamba	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dichloroprop	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dinoseb	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	**Diluted Ou***	30-150				8/17/11	0:00

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.015	0.010	mg/L	1		SW-846 6010C	8/16/11	8/17/11 21:45	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	1.8	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Benzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Bromobenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Bromochloromethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Bromodichloromethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Bromoform	ND	0.18	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Bromomethane	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
2-Butanone (MEK)	ND	0.72	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
n-Butylbenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
sec-Butylbenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
tert-Butylbenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Carbon Disulfide	ND	0.36	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Carbon Tetrachloride	ND	0.18	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Chlorobenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Chlorodibromomethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Chloroethane	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Chloroform	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Chloromethane	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
2-Chlorotoluene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
4-Chlorotoluene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.18	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2-Dibromoethane (EDB)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Dibromomethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2-Dichlorobenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,3-Dichlorobenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,4-Dichlorobenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,1-Dichloroethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2-Dichloroethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,1-Dichloroethylene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
cis-1,2-Dichloroethylene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
trans-1,2-Dichloroethylene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2-Dichloropropane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,3-Dichloropropane	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
2,2-Dichloropropane	ND	0.036	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,1-Dichloropropene	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
cis-1,3-Dichloropropene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
trans-1,3-Dichloropropene	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Diethyl Ether	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Diisopropyl Ether (DIPE)	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,4-Dioxane	ND	1.8	mg/Kg dry	1	V-16	SW-846 8260C	8/15/11	8/16/11 4:17	LBD

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Hexachlorobutadiene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
2-Hexanone (MBK)	ND	0.36	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Isopropylbenzene (Cumene)	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Methylene Chloride	ND	0.18	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.36	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Naphthalene	ND	0.072	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
n-Propylbenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Styrene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,1,1,2-Tetrachloroethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,1,2,2-Tetrachloroethane	ND	0.018	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Tetrachloroethylene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Tetrahydrofuran	ND	0.36	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Toluene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2,3-Trichlorobenzene	ND	0.18	mg/Kg dry	1	RL-07, V-05	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2,4-Trichlorobenzene	ND	0.036	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,1,1-Trichloroethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,1,2-Trichloroethane	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Trichloroethylene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Trichlorofluoromethane (Freon 11)	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2,3-Trichloropropane	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,2,4-Trimethylbenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
1,3,5-Trimethylbenzene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
Vinyl Chloride	ND	0.072	mg/Kg dry	1	L-04	SW-846 8260C	8/15/11	8/16/11 4:17	LBD
m+p Xylene	ND	0.072	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD
o-Xylene	ND	0.036	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:17	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	95.7	70-130		8/16/11 4:17
Toluene-d8	95.6	70-130		8/16/11 4:17
4-Bromofluorobenzene	103	70-130		8/16/11 4:17

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Acenaphthylene	0.70	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Acetophenone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Aniline	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Anthracene	0.78	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Benzo(a)anthracene	3.7	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Benzo(a)pyrene	2.5	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Benzo(b)fluoranthene	4.9	0.73	mg/Kg dry	4		SW-846 8270D	8/15/11	8/16/11 22:22	BGL
Benzo(g,h,i)perylene	1.2	0.18	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Benzo(k)fluoranthene	1.8	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Bis(2-chloroethoxy)methane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Bis(2-chloroethyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Bis(2-chloroisopropyl)ether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
4-Bromophenylphenylether	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Butylbenzylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
4-Chloroaniline	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2-Chloronaphthalene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2-Chlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Chrysene	4.1	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Dibenz(a,h)anthracene	0.44	0.18	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Dibenzofuran	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Di-n-butylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
1,2-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
1,3-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
1,4-Dichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
3,3-Dichlorobenzidine	ND	0.18	mg/Kg dry	1	V-19	SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2,4-Dichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Diethylphthalate	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2,4-Dimethylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Dimethylphthalate	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2,4-Dinitrophenol	ND	0.71	mg/Kg dry	1	V-19, V-20	SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2,4-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2,6-Dinitrotoluene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Di-n-octylphthalate	ND	0.71	mg/Kg dry	1	V-20	SW-846 8270D	8/15/11	8/16/11 9:18	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Fluoranthene	4.8	0.73	mg/Kg dry	4		SW-846 8270D	8/15/11	8/16/11 22:22	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Hexachlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Hexachlorobutadiene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Hexachloroethane	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Indeno(1,2,3-cd)pyrene	1.5	0.18	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Isophorone	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	0.19	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
3/4-Methylphenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Naphthalene	0.20	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Nitrobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2-Nitrophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
4-Nitrophenol	ND	0.71	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Pentachlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Phenanthrene	1.6	0.18	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Phenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
Pyrene	3.9	0.73	mg/Kg dry	4		SW-846 8270D	8/15/11	8/16/11 22:22	BGL
1,2,4-Trichlorobenzene	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2,4,5-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL
2,4,6-Trichlorophenol	ND	0.36	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:18	BGL

Surrogates	% Recovery		Recovery Limits	Flag		
2-Fluorophenol	60.2		30-130			8/16/11 9:18
Phenol-d6	66.9		30-130			8/16/11 9:18
Nitrobenzene-d5	59.4		30-130			8/16/11 9:18
2-Fluorobiphenyl	75.7		30-130			8/16/11 9:18
2,4,6-Tribromophenol	**22.7**	*	30-130	S-07		8/16/11 9:18
Terphenyl-d14	75.6		30-130			8/16/11 9:18

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
alpha-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
beta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
delta-BHC [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
gamma-BHC (Lindane) [1]	ND	0.0021	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Chlordane [2]	ND	0.021	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
4,4'-DDD [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
4,4'-DDE [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
4,4'-DDT [2]	0.0093	0.0043	mg/Kg dry	1	O-28	SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Dieldrin [1]	ND	0.0043	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Endosulfan I [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Endosulfan II [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Endosulfan sulfate [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Endrin [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Endrin ketone [1]	ND	0.0086	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Heptachlor [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Heptachlor epoxide [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Hexachlorobenzene [1]	ND	0.0054	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:34	PJG
Methoxychlor [1]	ND	0.054	mg/Kg dry	1	O-28	SW-846 8081B	8/15/11	8/21/11 0:34	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.9	30-150		8/21/11 0:34
Decachlorobiphenyl [2]	68.1	30-150		8/21/11 0:34
Tetrachloro-m-xylene [1]	54.8	30-150		8/21/11 0:34
Tetrachloro-m-xylene [2]	56.8	30-150		8/21/11 0:34

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	58.6	30-150		8/17/11 23:25
Decachlorobiphenyl [2]	62.4	30-150		8/17/11 23:25
Tetrachloro-m-xylene [1]	72.6	30-150		8/17/11 23:25
Tetrachloro-m-xylene [2]	91.2	30-150		8/17/11 23:25

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	440	360	mg/Kg dry	40		SW-846 8100 Modified	8/15/11	8/17/11 13:15	CJM

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	75.4	40-140					8/17/11 13:15

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	11	2.6	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:22	OP
Barium	540	2.6	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:22	OP
Cadmium	4.1	0.26	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:22	OP
Chromium	35	0.51	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:22	OP
Lead	5300	0.77	mg/Kg dry	1	M-12	SW-846 6010C	8/16/11	8/17/11 21:22	OP
Mercury	0.86	0.13	mg/Kg dry	5		SW-846 7471B	8/15/11	8/16/11 13:47	CWB
Selenium	ND	5.1	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:22	OP
Silver	ND	0.51	mg/Kg dry	1	B-06	SW-846 6010C	8/16/11	8/17/11 21:22	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	8/17/11	8/17/11 16:25	DEF
pH @18.8°C	11		pH Units	1		SW-846 9045C	8/12/11	8/12/11 19:00	AED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/17/11	8/17/11 15:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/17/11	8/17/11 17:00	DEF
Specific conductance	260	2.0	µmhos/cm	1		SM18-20 2510B	8/17/11	8/17/11 13:16	SBP
% Solids	93.3		% Wt	1		SM 2540G	8/14/11	8/15/11 8:44	PJS

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(200-400) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4-DB	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4,5-TP (Silvex)	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4,5-T	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dalapon	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dicamba	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dichloroprop	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dinoseb	ND	270	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag		
DCMA	**Diluted Ou***	30-150			8/17/11 0:00

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-05

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.20	0.010	mg/L	1		SW-846 6010C	8/16/11	8/17/11 22:12	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.7	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Benzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Bromobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Bromochloromethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Bromodichloromethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Bromoform	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Bromomethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
2-Butanone (MEK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
n-Butylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
sec-Butylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
tert-Butylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Carbon Disulfide	ND	0.54	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Carbon Tetrachloride	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Chlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Chlorodibromomethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Chloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Chloroform	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Chloromethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
2-Chlorotoluene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
4-Chlorotoluene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2-Dibromoethane (EDB)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Dibromomethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,3-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,4-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,1-Dichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2-Dichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,1-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
cis-1,2-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
trans-1,2-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2-Dichloropropane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,3-Dichloropropane	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
2,2-Dichloropropane	ND	0.054	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,1-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
cis-1,3-Dichloropropene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
trans-1,3-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Diethyl Ether	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Diisopropyl Ether (DIPE)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,4-Dioxane	ND	2.7	mg/Kg dry	1	V-16	SW-846 8260C	8/15/11	8/16/11 4:49	LBD

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Hexachlorobutadiene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
2-Hexanone (MBK)	ND	0.54	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Isopropylbenzene (Cumene)	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Methylene Chloride	ND	0.27	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.54	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Naphthalene	ND	0.11	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
n-Propylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Styrene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,1,1,2-Tetrachloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,1,2,2-Tetrachloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Tetrachloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Tetrahydrofuran	ND	0.54	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Toluene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2,3-Trichlorobenzene	ND	0.27	mg/Kg dry	1	RL-07, V-05	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2,4-Trichlorobenzene	ND	0.054	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,1,1-Trichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,1,2-Trichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Trichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Trichlorofluoromethane (Freon 11)	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2,3-Trichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,2,4-Trimethylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
1,3,5-Trimethylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
Vinyl Chloride	ND	0.11	mg/Kg dry	1	L-04	SW-846 8260C	8/15/11	8/16/11 4:49	LBD
m+p Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD
o-Xylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 4:49	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	99.2	70-130		8/16/11 4:49
Toluene-d8	96.5	70-130		8/16/11 4:49
4-Bromofluorobenzene	103	70-130		8/16/11 4:49

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Acenaphthylene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Acetophenone	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Aniline	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Anthracene	0.28	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Benzo(a)anthracene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Benzo(a)pyrene	0.96	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Benzo(b)fluoranthene	2.0	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Benzo(g,h,i)perylene	0.50	0.19	mg/Kg dry	1	V-06, V-20	SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Benzo(k)fluoranthene	0.75	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Bis(2-chloroethoxy)methane	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Bis(2-chloroethyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Bis(2-chloroisopropyl)ether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
4-Bromophenylphenylether	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Butylbenzylphthalate	ND	0.75	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
4-Chloroaniline	ND	0.75	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2-Chloronaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2-Chlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Chrysene	1.4	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1	V-20	SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Dibenzofuran	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Di-n-butylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
1,2-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
1,3-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
1,4-Dichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
3,3-Dichlorobenzidine	ND	0.19	mg/Kg dry	1	V-19	SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2,4-Dichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Diethylphthalate	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2,4-Dimethylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Dimethylphthalate	ND	0.75	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2,4-Dinitrophenol	ND	0.75	mg/Kg dry	1	V-19, V-20	SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2,4-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2,6-Dinitrotoluene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Di-n-octylphthalate	ND	0.75	mg/Kg dry	1	V-20	SW-846 8270D	8/15/11	8/16/11 9:43	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Fluoranthene	3.3	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Hexachlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Hexachlorobutadiene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Hexachloroethane	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Indeno(1,2,3-cd)pyrene	0.59	0.19	mg/Kg dry	1	V-06, V-20	SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Isophorone	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
3/4-Methylphenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Nitrobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2-Nitrophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
4-Nitrophenol	ND	0.75	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Pentachlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Phenanthrene	0.76	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Phenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
Pyrene	2.7	0.19	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
1,2,4-Trichlorobenzene	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2,4,5-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL
2,4,6-Trichlorophenol	ND	0.38	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 9:43	BGL

Surrogates	% Recovery		Recovery Limits	Flag	
2-Fluorophenol	34.4		30-130		8/16/11 9:43
Phenol-d6	44.0		30-130		8/16/11 9:43
Nitrobenzene-d5	36.8		30-130		8/16/11 9:43
2-Fluorobiphenyl	44.3		30-130		8/16/11 9:43
2,4,6-Tribromophenol	**16.0**	*	30-130	S-07	8/16/11 9:43
Terphenyl-d14	52.8		30-130		8/16/11 9:43

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
alpha-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
beta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
delta-BHC [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
gamma-BHC (Lindane) [1]	ND	0.0022	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Chlordane [1]	ND	0.022	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
4,4'-DDD [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
4,4'-DDE [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
4,4'-DDT [2]	0.0078	0.0045	mg/Kg dry	1	O-28, P-01	SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Dieldrin [1]	ND	0.0045	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Endosulfan I [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Endosulfan II [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Endosulfan sulfate [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Endrin [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Endrin ketone [1]	ND	0.0090	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Heptachlor [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Heptachlor epoxide [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Hexachlorobenzene [1]	ND	0.0056	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 0:53	PJG
Methoxychlor [1]	ND	0.056	mg/Kg dry	1	O-28	SW-846 8081B	8/15/11	8/21/11 0:53	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	61.9	30-150		8/21/11 0:53
Decachlorobiphenyl [2]	48.4	30-150		8/21/11 0:53
Tetrachloro-m-xylene [1]	40.2	30-150		8/21/11 0:53
Tetrachloro-m-xylene [2]	41.4	30-150		8/21/11 0:53

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB
Aroclor-1254 [2]	0.11	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 23:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	67.0	30-150		8/17/11 23:39
Decachlorobiphenyl [2]	72.3	30-150		8/17/11 23:39
Tetrachloro-m-xylene [1]	78.7	30-150		8/17/11 23:39
Tetrachloro-m-xylene [2]	97.4	30-150		8/17/11 23:39

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	330	190	mg/Kg dry	20		SW-846 8100 Modified	8/15/11	8/17/11 13:33	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl	65.7	40-140		8/17/11 13:33

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	2.9	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:26	OP
Barium	540	2.9	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:26	OP
Cadmium	4.3	0.29	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:26	OP
Chromium	41	0.57	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:26	OP
Lead	1900	0.86	mg/Kg dry	1	M-12	SW-846 6010C	8/16/11	8/17/11 21:26	OP
Mercury	1.0	0.14	mg/Kg dry	5		SW-846 7471B	8/15/11	8/16/11 13:48	CWB
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:26	OP
Silver	ND	0.57	mg/Kg dry	1	B-06	SW-846 6010C	8/16/11	8/17/11 21:26	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	8/17/11	8/17/11 16:25	DEF
pH @18.5°C	11		pH Units	1		SW-846 9045C	8/12/11	8/12/11 19:00	AED
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	8/17/11	8/17/11 15:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/17/11	8/17/11 17:00	DEF
Specific conductance	250	2.0	µmhos/cm	1		SM18-20 2510B	8/17/11	8/17/11 13:16	SBP
% Solids	88.4		% Wt	1		SM 2540G	8/14/11	8/15/11 8:44	PJS

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(400-600) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-06

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4-DB	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4,5-TP (Silvex)	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4,5-T	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dalapon	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dicamba	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dichloroprop	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dinoseb	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	**Diluted Ou***	30-150				8/17/11	0:00

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 11:45

Sample ID: 11H0527-07

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	ND	0.010	mg/L	1		SW-846 6010C	8/16/11	8/18/11 13:16	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.2	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
tert-Amyl Methyl Ether (TAME)	ND	0.022	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Benzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Bromobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Bromochloromethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Bromodichloromethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Bromoform	ND	0.22	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Bromomethane	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
2-Butanone (MEK)	ND	0.89	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
n-Butylbenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
sec-Butylbenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
tert-Butylbenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
tert-Butyl Ethyl Ether (TBEE)	ND	0.022	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Carbon Disulfide	ND	0.44	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Carbon Tetrachloride	ND	0.22	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Chlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Chlorodibromomethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Chloroethane	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Chloroform	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Chloromethane	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
2-Chlorotoluene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
4-Chlorotoluene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.22	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2-Dibromoethane (EDB)	ND	0.022	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Dibromomethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2-Dichlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,3-Dichlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,4-Dichlorobenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,1-Dichloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2-Dichloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,1-Dichloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
cis-1,2-Dichloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
trans-1,2-Dichloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2-Dichloropropane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,3-Dichloropropane	ND	0.022	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
2,2-Dichloropropane	ND	0.044	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,1-Dichloropropene	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
cis-1,3-Dichloropropene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
trans-1,3-Dichloropropene	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Diethyl Ether	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Diisopropyl Ether (DIPE)	ND	0.022	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,4-Dioxane	ND	2.2	mg/Kg dry	1	V-16	SW-846 8260C	8/15/11	8/16/11 5:21	LBD

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Hexachlorobutadiene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
2-Hexanone (MBK)	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Isopropylbenzene (Cumene)	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Methyl tert-Butyl Ether (MTBE)	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Methylene Chloride	ND	0.22	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
4-Methyl-2-pentanone (MIBK)	ND	0.44	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Naphthalene	ND	0.089	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
n-Propylbenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Styrene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,1,1,2-Tetrachloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,1,2,2-Tetrachloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Tetrachloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Tetrahydrofuran	ND	0.44	mg/Kg dry	1	RL-07	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Toluene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2,3-Trichlorobenzene	ND	0.22	mg/Kg dry	1	RL-07, V-05	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2,4-Trichlorobenzene	ND	0.044	mg/Kg dry	1	V-05	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,1,1-Trichloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,1,2-Trichloroethane	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Trichloroethylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Trichlorofluoromethane (Freon 11)	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2,3-Trichloropropane	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,2,4-Trimethylbenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
1,3,5-Trimethylbenzene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
Vinyl Chloride	ND	0.089	mg/Kg dry	1	L-04	SW-846 8260C	8/15/11	8/16/11 5:21	LBD
m+p Xylene	ND	0.089	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD
o-Xylene	ND	0.044	mg/Kg dry	1		SW-846 8260C	8/15/11	8/16/11 5:21	LBD

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	97.9	70-130		8/16/11 5:21
Toluene-d8	95.9	70-130		8/16/11 5:21
4-Bromofluorobenzene	101	70-130		8/16/11 5:21

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.49	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Acenaphthylene	0.38	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Acetophenone	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Aniline	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Anthracene	1.6	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Benzo(a)anthracene	1.9	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Benzo(a)pyrene	1.3	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Benzo(b)fluoranthene	2.7	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Benzo(g,h,i)perylene	0.82	0.20	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Benzo(k)fluoranthene	0.97	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Bis(2-chloroethoxy)methane	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Bis(2-chloroethyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Bis(2-chloroisopropyl)ether	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
4-Bromophenylphenylether	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Butylbenzylphthalate	ND	0.77	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
4-Chloroaniline	ND	0.77	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2-Chloronaphthalene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2-Chlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Chrysene	2.2	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Dibenz(a,h)anthracene	0.25	0.20	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Dibenzofuran	0.85	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Di-n-butylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
1,2-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
1,3-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
1,4-Dichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
3,3-Dichlorobenzidine	ND	0.20	mg/Kg dry	1	V-19	SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2,4-Dichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Diethylphthalate	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2,4-Dimethylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Dimethylphthalate	ND	0.77	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2,4-Dinitrophenol	ND	0.77	mg/Kg dry	1	V-19, V-20	SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2,4-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2,6-Dinitrotoluene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Di-n-octylphthalate	ND	0.77	mg/Kg dry	1	V-20	SW-846 8270D	8/15/11	8/16/11 10:09	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Fluoranthene	5.2	0.79	mg/Kg dry	4		SW-846 8270D	8/15/11	8/16/11 22:47	BGL
Fluorene	0.48	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Hexachlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Hexachlorobutadiene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Hexachloroethane	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Indeno(1,2,3-cd)pyrene	0.93	0.20	mg/Kg dry	1	V-06	SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Isophorone	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
3/4-Methylphenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Naphthalene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Nitrobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2-Nitrophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
4-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Pentachlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Phenanthrene	7.6	0.79	mg/Kg dry	4		SW-846 8270D	8/15/11	8/16/11 22:47	BGL
Phenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
Pyrene	3.3	0.79	mg/Kg dry	4		SW-846 8270D	8/15/11	8/16/11 22:47	BGL
1,2,4-Trichlorobenzene	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2,4,5-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL
2,4,6-Trichlorophenol	ND	0.40	mg/Kg dry	1		SW-846 8270D	8/15/11	8/16/11 10:09	BGL

Surrogates	% Recovery		Recovery Limits	Flag	
2-Fluorophenol	35.7		30-130		8/16/11 10:09
Phenol-d6	50.6		30-130		8/16/11 10:09
Nitrobenzene-d5	45.3		30-130		8/16/11 10:09
2-Fluorobiphenyl	61.2		30-130		8/16/11 10:09
2,4,6-Tribromophenol	**11.5**	*	30-130	S-07	8/16/11 10:09
Terphenyl-d14	64.1		30-130		8/16/11 10:09

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
alpha-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
beta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
delta-BHC [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
gamma-BHC (Lindane) [1]	ND	0.0023	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Chlordane [1]	ND	0.023	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
4,4'-DDD [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
4,4'-DDE [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
4,4'-DDT [1]	ND	0.0047	mg/Kg dry	1	O-28	SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Dieldrin [1]	ND	0.0047	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Endosulfan I [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Endosulfan II [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Endosulfan sulfate [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Endrin [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Endrin ketone [1]	ND	0.0094	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Heptachlor [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Heptachlor epoxide [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Hexachlorobenzene [1]	ND	0.0059	mg/Kg dry	1		SW-846 8081B	8/15/11	8/21/11 1:11	PJG
Methoxychlor [1]	ND	0.059	mg/Kg dry	1	O-28	SW-846 8081B	8/15/11	8/21/11 1:11	PJG

Surrogates	% Recovery	Recovery Limits	Flag		
Decachlorobiphenyl [1]	111	30-150		8/21/11 1:11	
Decachlorobiphenyl [2]	92.6	30-150		8/21/11 1:11	
Tetrachloro-m-xylene [1]	69.0	30-150		8/21/11 1:11	
Tetrachloro-m-xylene [2]	71.7	30-150		8/21/11 1:11	

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB
Aroclor-1254 [2]	1.2	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/15/11	8/17/11 21:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	76.8	30-150		8/17/11 21:47
Decachlorobiphenyl [2]	83.4	30-150		8/17/11 21:47
Tetrachloro-m-xylene [1]	88.4	30-150		8/17/11 21:47
Tetrachloro-m-xylene [2]	111	30-150		8/17/11 21:47

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	270	97	mg/Kg dry	10		SW-846 8100 Modified	8/15/11	8/17/11 13:52	CJM

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl	54.4	40-140		8/17/11 13:52

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Project Location: Readville Yard 5 Sample Description: Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	13	2.9	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:30	OP
Barium	520	2.9	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:30	OP
Cadmium	7.5	0.29	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:30	OP
Chromium	35	0.58	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:30	OP
Lead	2300	0.87	mg/Kg dry	1	M-12	SW-846 6010C	8/16/11	8/17/11 21:30	OP
Mercury	1.2	0.14	mg/Kg dry	5		SW-846 7471B	8/15/11	8/16/11 13:50	CWB
Selenium	ND	5.8	mg/Kg dry	1		SW-846 6010C	8/16/11	8/17/11 21:30	OP
Silver	1.8	0.58	mg/Kg dry	1		SW-846 6010C	8/16/11	8/18/11 14:12	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	8/17/11	8/17/11 16:25	DEF
pH @19.2°C	11		pH Units	1		SW-846 9045C	8/12/11	8/12/11 19:00	AED
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	8/17/11	8/17/11 15:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	8/17/11	8/17/11 17:00	DEF
Specific conductance	280	2.0	µmhos/cm	1		SM18-20 2510B	8/17/11	8/17/11 13:16	SBP
% Solids	85.4		% Wt	1		SM 2540G	8/14/11	8/15/11 8:44	PJS

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H0527

Date Received: 8/12/2011

Field Sample #: RY5-TSP1(600-700) Conf. | Sampled: 8/12/2011 12:15

Sample ID: 11H0527-08

Sample Matrix: Soil

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4-DB	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4,5-TP (Silvex)	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
2,4,5-T	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dalapon	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dicamba	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dichloroprop	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET
Dinoseb	ND	290	µg/Kg	1		SW-846 8151	8/17/11	8/17/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	**Diluted Ou***	30-150				8/17/11	0:00

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035449	08/14/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035449	08/14/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035449	08/14/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035449	08/14/11

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035652	1.00	08/17/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035652	1.00	08/17/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035652	1.00	08/17/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035652	1.00	08/17/11

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035672	50.0	50.0	08/17/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035672	50.0	50.0	08/17/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035672	50.0	50.0	08/17/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035672	50.0	50.0	08/17/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035543	1.01	50.0	08/16/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035543	1.05	50.0	08/16/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035543	0.986	50.0	08/16/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035543	1.02	50.0	08/16/11

Prep Method: SW-846 3010A-SW-846 6010C **Leachates were extracted on 8/15/2011 per SW-846 1311 in Batch B035447**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11H0527-01 [RY5-TSP1(0-200) Conf.]	B035566	50.0	50.0	08/16/11
11H0527-03 [RY5-TSP1(200-400) Conf.]	B035566	50.0	50.0	08/16/11
11H0527-05 [RY5-TSP1(400-600) Conf.]	B035566	50.0	50.0	08/16/11
11H0527-07 [RY5-TSP1(600-700) Conf.]	B035566	50.0	50.0	08/16/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035480	0.601	50.0	08/15/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035480	0.607	50.0	08/15/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035480	0.612	50.0	08/15/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035480	0.618	50.0	08/15/11

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Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035461	10.0	10.0	08/15/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035461	10.0	10.0	08/15/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035461	10.1	10.0	08/15/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035461	10.0	10.0	08/15/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035462	10.0	50.0	08/15/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035462	10.0	50.0	08/15/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035462	10.1	50.0	08/15/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035462	10.0	50.0	08/15/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035459	30.0	1.00	08/15/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035459	30.1	1.00	08/15/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035459	30.0	1.00	08/15/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035459	30.2	1.00	08/15/11

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035475	26.3	17.4	1	50	08/15/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035475	24.8	16.7	1	50	08/15/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035475	17.9	17.1	1	50	08/15/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035475	24.6	18.6	1	50	08/15/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035466	30.2	1.00	08/15/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035466	30.1	1.00	08/15/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035466	30.0	1.00	08/15/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035466	30.2	1.00	08/15/11

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035678	25.7	250	08/17/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035678	25.6	250	08/17/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035678	25.2	250	08/17/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035678	25.5	250	08/17/11

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Sample Extraction Data

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035728	25.7	250	08/17/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035728	25.6	250	08/17/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035728	25.2	250	08/17/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035728	25.5	250	08/17/11

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
11H0527-02 [RY5-TSP1(0-200) Conf.]	B035510	20.0	08/12/11
11H0527-04 [RY5-TSP1(200-400) Conf.]	B035510	20.0	08/12/11
11H0527-06 [RY5-TSP1(400-600) Conf.]	B035510	20.0	08/12/11
11H0527-08 [RY5-TSP1(600-700) Conf.]	B035510	20.0	08/12/11

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035475 - SW-846 5035										
Blank (B035475-BLK1)				Prepared: 08/15/11 Analyzed: 08/16/11						
Acetone	ND	2.5	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.25	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.50	mg/Kg wet							
Carbon Tetrachloride	ND	0.25	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.050	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							V-05
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.050	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.10	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-16
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							V-05

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B035475 - SW-846 5035											
Blank (B035475-BLK1)				Prepared: 08/15/11 Analyzed: 08/16/11							
n-Propylbenzene	ND	0.050	mg/Kg wet								
Styrene	ND	0.050	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet								
Tetrachloroethylene	ND	0.050	mg/Kg wet								
Tetrahydrofuran	ND	0.50	mg/Kg wet								
Toluene	ND	0.050	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							V-05	
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							V-05	
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet								
Trichloroethylene	ND	0.050	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet								
Vinyl Chloride	ND	0.10	mg/Kg wet							L-04	
m+p Xylene	ND	0.10	mg/Kg wet								
o-Xylene	ND	0.050	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0242*		mg/Kg wet	0.0250		96.9	70-130				
Surrogate: Toluene-d8	*0.0246*		mg/Kg wet	0.0250		98.4	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0259*		mg/Kg wet	0.0250		103	70-130				
LCS (B035475-BS1)				Prepared: 08/15/11 Analyzed: 08/16/11							
Acetone	27.1	11	mg/Kg wet	22.7		119	40-160				†
tert-Amyl Methyl Ether (TAME)	2.11	0.11	mg/Kg wet	2.27		93.2	70-130				
Benzene	2.24	0.23	mg/Kg wet	2.27		98.7	70-130				
Bromobenzene	2.37	0.23	mg/Kg wet	2.27		104	70-130				
Bromochloromethane	2.48	0.23	mg/Kg wet	2.27		109	70-130				
Bromodichloromethane	2.43	0.23	mg/Kg wet	2.27		107	70-130				
Bromoform	2.11	1.1	mg/Kg wet	2.27		93.2	70-130				
Bromomethane	1.46	0.45	mg/Kg wet	2.27		64.3	40-160			L-14	†
2-Butanone (MEK)	22.6	4.5	mg/Kg wet	22.7		99.7	40-160				†
n-Butylbenzene	2.09	0.23	mg/Kg wet	2.27		92.2	70-130				
sec-Butylbenzene	2.20	0.23	mg/Kg wet	2.27		97.0	70-130				
tert-Butylbenzene	2.26	0.23	mg/Kg wet	2.27		99.5	70-130				
tert-Butyl Ethyl Ether (TBEE)	1.78	0.11	mg/Kg wet	2.27		78.5	70-130				
Carbon Disulfide	2.22	2.3	mg/Kg wet	2.27		98.0	70-130				
Carbon Tetrachloride	2.14	1.1	mg/Kg wet	2.27		94.3	70-130				
Chlorobenzene	2.51	0.23	mg/Kg wet	2.27		111	70-130				
Chlorodibromomethane	2.46	0.23	mg/Kg wet	2.27		109	70-130				
Chloroethane	1.97	0.45	mg/Kg wet	2.27		86.8	70-130				
Chloroform	2.30	0.45	mg/Kg wet	2.27		102	70-130				
Chloromethane	1.42	0.45	mg/Kg wet	2.27		62.7	40-160			L-14	†
2-Chlorotoluene	2.53	0.23	mg/Kg wet	2.27		111	70-130				
4-Chlorotoluene	2.61	0.23	mg/Kg wet	2.27		115	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	2.10	1.1	mg/Kg wet	2.27		92.8	70-130				
1,2-Dibromoethane (EDB)	2.40	0.11	mg/Kg wet	2.27		106	70-130				
Dibromomethane	2.50	0.23	mg/Kg wet	2.27		110	70-130				
1,2-Dichlorobenzene	2.36	0.23	mg/Kg wet	2.27		104	70-130				
1,3-Dichlorobenzene	2.36	0.23	mg/Kg wet	2.27		104	70-130				
1,4-Dichlorobenzene	2.31	0.23	mg/Kg wet	2.27		102	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B035475 - SW-846 5035											
LCS (B035475-BS1)				Prepared: 08/15/11 Analyzed: 08/16/11							
Dichlorodifluoromethane (Freon 12)	1.15	0.45	mg/Kg wet	2.27		50.6	40-160			L-14	†
1,1-Dichloroethane	2.45	0.23	mg/Kg wet	2.27		108	70-130				
1,2-Dichloroethane	2.49	0.23	mg/Kg wet	2.27		110	70-130				
1,1-Dichloroethylene	2.34	0.23	mg/Kg wet	2.27		103	70-130				
cis-1,2-Dichloroethylene	2.10	0.23	mg/Kg wet	2.27		92.5	70-130				
trans-1,2-Dichloroethylene	2.59	0.23	mg/Kg wet	2.27		114	70-130				
1,2-Dichloropropane	2.31	0.23	mg/Kg wet	2.27		102	70-130				
1,3-Dichloropropane	2.28	0.11	mg/Kg wet	2.27		100	70-130				
2,2-Dichloropropane	1.75	0.23	mg/Kg wet	2.27		77.4	70-130			V-05	
1,1-Dichloropropene	2.21	0.45	mg/Kg wet	2.27		97.4	70-130				
cis-1,3-Dichloropropene	1.86	0.23	mg/Kg wet	2.27		82.1	70-130				
trans-1,3-Dichloropropene	2.06	0.45	mg/Kg wet	2.27		90.8	70-130				
Diethyl Ether	2.37	0.45	mg/Kg wet	2.27		104	70-130				
Diisopropyl Ether (DIPE)	2.23	0.11	mg/Kg wet	2.27		98.3	70-130				
1,4-Dioxane	33.8	11	mg/Kg wet	22.7		149	40-160			L-14, V-16, V-20	†
Ethylbenzene	2.48	0.23	mg/Kg wet	2.27		109	70-130				
Hexachlorobutadiene	2.37	0.23	mg/Kg wet	2.27		104	70-130				
2-Hexanone (MBK)	23.6	2.3	mg/Kg wet	22.7		104	40-160				†
Isopropylbenzene (Cumene)	2.81	0.23	mg/Kg wet	2.27		124	70-130				
p-Isopropyltoluene (p-Cymene)	2.22	0.23	mg/Kg wet	2.27		98.0	70-130				
Methyl tert-Butyl Ether (MTBE)	2.21	0.23	mg/Kg wet	2.27		97.7	70-130				
Methylene Chloride	2.42	1.1	mg/Kg wet	2.27		107	70-130				
4-Methyl-2-pentanone (MIBK)	23.4	2.3	mg/Kg wet	22.7		103	40-160				†
Naphthalene	1.80	0.45	mg/Kg wet	2.27		79.2	70-130			V-05	
n-Propylbenzene	2.41	0.23	mg/Kg wet	2.27		106	70-130				
Styrene	2.58	0.23	mg/Kg wet	2.27		114	70-130				
1,1,1,2-Tetrachloroethane	2.60	0.23	mg/Kg wet	2.27		115	70-130				
1,1,2,2-Tetrachloroethane	2.11	0.11	mg/Kg wet	2.27		93.3	70-130				
Tetrachloroethylene	2.60	0.23	mg/Kg wet	2.27		115	70-130				
Tetrahydrofuran	1.81	2.3	mg/Kg wet	2.27		80.0	70-130				
Toluene	2.42	0.23	mg/Kg wet	2.27		107	70-130				
1,2,3-Trichlorobenzene	1.81	1.1	mg/Kg wet	2.27		79.7	70-130			V-05	
1,2,4-Trichlorobenzene	1.81	0.23	mg/Kg wet	2.27		79.9	70-130			V-05	
1,1,1-Trichloroethane	2.47	0.23	mg/Kg wet	2.27		109	70-130				
1,1,2-Trichloroethane	2.42	0.23	mg/Kg wet	2.27		107	70-130				
Trichloroethylene	2.55	0.23	mg/Kg wet	2.27		112	70-130				
Trichlorofluoromethane (Freon 11)	2.15	0.45	mg/Kg wet	2.27		94.8	70-130				
1,2,3-Trichloropropane	2.16	0.45	mg/Kg wet	2.27		95.2	70-130				
1,2,4-Trimethylbenzene	2.36	0.23	mg/Kg wet	2.27		104	70-130				
1,3,5-Trimethylbenzene	2.49	0.23	mg/Kg wet	2.27		110	70-130				
Vinyl Chloride	1.58	0.45	mg/Kg wet	2.27		**69.6**	70-130	*		L-04	
m+p Xylene	5.21	0.45	mg/Kg wet	4.53		115	70-130				
o-Xylene	2.53	0.23	mg/Kg wet	2.27		112	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0272*		mg/Kg wet	0.0250		109	70-130				
Surrogate: Toluene-d8	*0.0276*		mg/Kg wet	0.0250		111	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0291*		mg/Kg wet	0.0250		116	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B035475 - SW-846 5035											
LCS Dup (B035475-BSD1)				Prepared: 08/15/11 Analyzed: 08/16/11							
Acetone	28.0	11	mg/Kg wet	22.7		124	40-160	3.55	20		†
tert-Amyl Methyl Ether (TAME)	2.10	0.11	mg/Kg wet	2.27		92.6	70-130	0.646	20		
Benzene	2.18	0.23	mg/Kg wet	2.27		96.2	70-130	2.57	20		
Bromobenzene	2.34	0.23	mg/Kg wet	2.27		103	70-130	1.25	20		
Bromochloromethane	2.55	0.23	mg/Kg wet	2.27		112	70-130	2.89	20		
Bromodichloromethane	2.44	0.23	mg/Kg wet	2.27		108	70-130	0.745	20		
Bromoform	2.06	1.1	mg/Kg wet	2.27		90.8	70-130	2.61	20		
Bromomethane	1.62	0.45	mg/Kg wet	2.27		71.6	40-160	10.7	20		†
2-Butanone (MEK)	24.3	4.5	mg/Kg wet	22.7		107	40-160	7.10	20		†
n-Butylbenzene	2.00	0.23	mg/Kg wet	2.27		88.3	70-130	4.32	20		
sec-Butylbenzene	2.08	0.23	mg/Kg wet	2.27		91.6	70-130	5.73	20		
tert-Butylbenzene	2.11	0.23	mg/Kg wet	2.27		93.1	70-130	6.65	20		
tert-Butyl Ethyl Ether (TBEE)	1.86	0.11	mg/Kg wet	2.27		82.2	70-130	4.60	20		
Carbon Disulfide	2.22	2.3	mg/Kg wet	2.27		98.0	70-130	0.00	20		
Carbon Tetrachloride	2.13	1.1	mg/Kg wet	2.27		94.0	70-130	0.319	20		
Chlorobenzene	2.49	0.23	mg/Kg wet	2.27		110	70-130	0.635	20		
Chlorodibromomethane	2.41	0.23	mg/Kg wet	2.27		106	70-130	2.14	20		
Chloroethane	1.99	0.45	mg/Kg wet	2.27		88.0	70-130	1.37	20		
Chloroform	2.32	0.45	mg/Kg wet	2.27		102	70-130	0.785	20		
Chloromethane	1.42	0.45	mg/Kg wet	2.27		62.7	40-160	0.00	20	L-14	†
2-Chlorotoluene	2.45	0.23	mg/Kg wet	2.27		108	70-130	2.91	20		
4-Chlorotoluene	2.54	0.23	mg/Kg wet	2.27		112	70-130	2.55	20		
1,2-Dibromo-3-chloropropane (DBCP)	2.31	1.1	mg/Kg wet	2.27		102	70-130	9.45	20		
1,2-Dibromoethane (EDB)	2.50	0.11	mg/Kg wet	2.27		110	70-130	4.08	20		
Dibromomethane	2.55	0.23	mg/Kg wet	2.27		112	70-130	1.80	20		
1,2-Dichlorobenzene	2.25	0.23	mg/Kg wet	2.27		99.1	70-130	5.02	20		
1,3-Dichlorobenzene	2.27	0.23	mg/Kg wet	2.27		100	70-130	3.82	20		
1,4-Dichlorobenzene	2.22	0.23	mg/Kg wet	2.27		98.1	70-130	3.80	20		
Dichlorodifluoromethane (Freon 12)	1.11	0.45	mg/Kg wet	2.27		48.9	40-160	3.42	20	L-14	†
1,1-Dichloroethane	2.46	0.23	mg/Kg wet	2.27		109	70-130	0.554	20		
1,2-Dichloroethane	2.51	0.23	mg/Kg wet	2.27		111	70-130	0.907	20		
1,1-Dichloroethylene	2.27	0.23	mg/Kg wet	2.27		100	70-130	2.95	20		
cis-1,2-Dichloroethylene	2.12	0.23	mg/Kg wet	2.27		93.7	70-130	1.29	20		
trans-1,2-Dichloroethylene	2.60	0.23	mg/Kg wet	2.27		115	70-130	0.612	20		
1,2-Dichloropropane	2.27	0.23	mg/Kg wet	2.27		100	70-130	2.08	20		
1,3-Dichloropropane	2.31	0.11	mg/Kg wet	2.27		102	70-130	1.58	20		
2,2-Dichloropropane	1.70	0.23	mg/Kg wet	2.27		74.9	70-130	3.28	20	V-05	
1,1-Dichloropropene	2.14	0.45	mg/Kg wet	2.27		94.2	70-130	3.34	20		
cis-1,3-Dichloropropene	1.85	0.23	mg/Kg wet	2.27		81.5	70-130	0.733	20		
trans-1,3-Dichloropropene	2.05	0.45	mg/Kg wet	2.27		90.4	70-130	0.441	20		
Diethyl Ether	2.41	0.45	mg/Kg wet	2.27		106	70-130	1.71	20		
Diisopropyl Ether (DIPE)	2.32	0.11	mg/Kg wet	2.27		102	70-130	3.99	20		
1,4-Dioxane	32.3	11	mg/Kg wet	22.7		142	40-160	4.52	20	V-20, L-14, V-16	†
Ethylbenzene	2.40	0.23	mg/Kg wet	2.27		106	70-130	2.97	20		
Hexachlorobutadiene	2.38	0.23	mg/Kg wet	2.27		105	70-130	0.668	20		
2-Hexanone (MBK)	24.6	2.3	mg/Kg wet	22.7		108	40-160	3.96	20		†
Isopropylbenzene (Cumene)	2.77	0.23	mg/Kg wet	2.27		122	70-130	1.38	20		
p-Isopropyltoluene (p-Cymene)	2.14	0.23	mg/Kg wet	2.27		94.4	70-130	3.74	20		
Methyl tert-Butyl Ether (MTBE)	2.32	0.23	mg/Kg wet	2.27		102	70-130	4.50	20		
Methylene Chloride	2.49	1.1	mg/Kg wet	2.27		110	70-130	2.77	20		
4-Methyl-2-pentanone (MIBK)	24.2	2.3	mg/Kg wet	22.7		107	40-160	3.32	20		†
Naphthalene	1.81	0.45	mg/Kg wet	2.27		80.0	70-130	1.01	20	V-05	

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B035475 - SW-846 5035											
LCS Dup (B035475-BSD1)				Prepared: 08/15/11 Analyzed: 08/16/11							
n-Propylbenzene	2.35	0.23	mg/Kg wet	2.27		104		70-130	2.76	20	
Styrene	2.53	0.23	mg/Kg wet	2.27		112		70-130	1.77	20	
1,1,1,2-Tetrachloroethane	2.59	0.23	mg/Kg wet	2.27		114		70-130	0.436	20	
1,1,2,2-Tetrachloroethane	2.22	0.11	mg/Kg wet	2.27		98.1		70-130	5.02	20	
Tetrachloroethylene	2.48	0.23	mg/Kg wet	2.27		109		70-130	4.91	20	
Tetrahydrofuran	2.00	2.3	mg/Kg wet	2.27		88.3		70-130	9.86	20	
Toluene	2.34	0.23	mg/Kg wet	2.27		103		70-130	3.43	20	
1,2,3-Trichlorobenzene	1.90	1.1	mg/Kg wet	2.27		83.7		70-130	4.90	20	V-05
1,2,4-Trichlorobenzene	1.85	0.23	mg/Kg wet	2.27		81.6		70-130	2.11	20	V-05
1,1,1-Trichloroethane	2.34	0.23	mg/Kg wet	2.27		103		70-130	5.38	20	
1,1,2-Trichloroethane	2.37	0.23	mg/Kg wet	2.27		104		70-130	2.27	20	
Trichloroethylene	2.48	0.23	mg/Kg wet	2.27		110		70-130	2.52	20	
Trichlorofluoromethane (Freon 11)	2.06	0.45	mg/Kg wet	2.27		91.0		70-130	4.09	20	
1,2,3-Trichloropropane	2.24	0.45	mg/Kg wet	2.27		99.0		70-130	3.91	20	
1,2,4-Trimethylbenzene	2.25	0.23	mg/Kg wet	2.27		99.2		70-130	4.92	20	
1,3,5-Trimethylbenzene	2.44	0.23	mg/Kg wet	2.27		108		70-130	1.84	20	
Vinyl Chloride	1.52	0.45	mg/Kg wet	2.27		**67.0**	*	70-130	3.81	20	L-04
m+p Xylene	5.08	0.45	mg/Kg wet	4.53		112		70-130	2.51	20	
o-Xylene	2.48	0.23	mg/Kg wet	2.27		110		70-130	1.81	20	
Surrogate: 1,2-Dichloroethane-d4	*0.0269*		mg/Kg wet	0.0250		108		70-130			
Surrogate: Toluene-d8	*0.0277*		mg/Kg wet	0.0250		111		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0293*		mg/Kg wet	0.0250		117		70-130			

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 B035466 - SW-846 3546										
Blank (B035466-BLK1)				Prepared & Analyzed: 08/15/11						
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							
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							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.66	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							V-19
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	0.66	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							V-19
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.66	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							
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 B035466 - SW-846 3546											
Blank (B035466-BLK1)				Prepared & Analyzed: 08/15/11							
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	*5.32*		mg/Kg wet	6.67		79.8	30-130				
Surrogate: Phenol-d6	*5.54*		mg/Kg wet	6.67		83.1	30-130				
Surrogate: Nitrobenzene-d5	*2.48*		mg/Kg wet	3.33		74.4	30-130				
Surrogate: 2-Fluorobiphenyl	*2.65*		mg/Kg wet	3.33		79.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*5.94*		mg/Kg wet	6.67		89.1	30-130				
Surrogate: Terphenyl-d14	*3.01*		mg/Kg wet	3.33		90.2	30-130				
LCS (B035466-BS1)				Prepared & Analyzed: 08/15/11							
Acenaphthene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140				
Acenaphthylene	1.32	0.17	mg/Kg wet	1.67		79.2	40-140				
Acetophenone	1.19	0.34	mg/Kg wet	1.67		71.5	40-140				
Aniline	0.730	0.34	mg/Kg wet	1.67		43.8	40-140				
Anthracene	1.40	0.17	mg/Kg wet	1.67		84.2	40-140				
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		79.5	40-140				
Benzo(a)pyrene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140				
Benzo(b)fluoranthene	1.38	0.17	mg/Kg wet	1.67		82.8	40-140				
Benzo(g,h,i)perylene	1.34	0.17	mg/Kg wet	1.67		80.4	40-140				
Benzo(k)fluoranthene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140				
Bis(2-chloroethoxy)methane	1.34	0.34	mg/Kg wet	1.67		80.7	40-140				
Bis(2-chloroethyl)ether	1.18	0.34	mg/Kg wet	1.67		70.6	40-140				
Bis(2-chloroisopropyl)ether	1.09	0.34	mg/Kg wet	1.67		65.6	40-140				
Bis(2-Ethylhexyl)phthalate	1.54	0.34	mg/Kg wet	1.67		92.4	40-140				
4-Bromophenylphenylether	1.37	0.34	mg/Kg wet	1.67		82.3	40-140				
Butylbenzylphthalate	1.54	0.66	mg/Kg wet	1.67		92.6	40-140				
4-Chloroaniline	0.897	0.66	mg/Kg wet	1.67		53.8	15-140				†
2-Chloronaphthalene	1.21	0.34	mg/Kg wet	1.67		72.3	40-140				
2-Chlorophenol	1.26	0.34	mg/Kg wet	1.67		75.8	30-130				
Chrysene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140				
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.7	40-140				
Dibenzofuran	1.34	0.34	mg/Kg wet	1.67		80.7	40-140				
Di-n-butylphthalate	1.55	0.34	mg/Kg wet	1.67		92.8	40-140				
1,2-Dichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.9	40-140				
1,3-Dichlorobenzene	1.18	0.34	mg/Kg wet	1.67		70.6	40-140				
1,4-Dichlorobenzene	1.25	0.34	mg/Kg wet	1.67		74.8	40-140				
3,3-Dichlorobenzidine	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			V-19	
2,4-Dichlorophenol	1.40	0.34	mg/Kg wet	1.67		84.0	30-130				
Diethylphthalate	1.46	0.34	mg/Kg wet	1.67		87.3	40-140				
2,4-Dimethylphenol	1.27	0.34	mg/Kg wet	1.67		75.9	30-130				
Dimethylphthalate	1.45	0.66	mg/Kg wet	1.67		86.7	40-140				
2,4-Dinitrophenol	1.46	0.66	mg/Kg wet	1.67		87.5	15-140			V-19	†
2,4-Dinitrotoluene	1.56	0.34	mg/Kg wet	1.67		93.5	40-140				
2,6-Dinitrotoluene	1.50	0.34	mg/Kg wet	1.67		90.2	40-140				
Di-n-octylphthalate	1.56	0.66	mg/Kg wet	1.67		93.7	40-140				
1,2-Diphenylhydrazine (as Azobenzene)	1.23	0.34	mg/Kg wet	1.67		74.0	40-140				
Fluoranthene	1.53	0.17	mg/Kg wet	1.67		91.6	40-140				
Fluorene	1.36	0.17	mg/Kg wet	1.67		81.8	40-140				
Hexachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.5	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 B035466 - SW-846 3546										
LCS (B035466-BS1)				Prepared & Analyzed: 08/15/11						
Hexachlorobutadiene	1.36	0.34	mg/Kg wet	1.67		81.7	40-140			
Hexachloroethane	1.24	0.34	mg/Kg wet	1.67		74.6	40-140			
Indeno(1,2,3-cd)pyrene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Isophorone	1.16	0.34	mg/Kg wet	1.67		69.5	40-140			
2-Methylnaphthalene	1.27	0.17	mg/Kg wet	1.67		75.9	40-140			
2-Methylphenol	0.608	0.34	mg/Kg wet	1.67		36.5	30-130			
3/4-Methylphenol	1.16	0.34	mg/Kg wet	1.67		69.8	30-130			
Naphthalene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Nitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.3	40-140			
2-Nitrophenol	1.41	0.34	mg/Kg wet	1.67		84.8	30-130			
4-Nitrophenol	1.67	0.66	mg/Kg wet	1.67		100	15-140			†
Pentachlorophenol	1.31	0.34	mg/Kg wet	1.67		78.7	30-130			
Phenanthrene	1.38	0.17	mg/Kg wet	1.67		82.6	40-140			
Phenol	1.18	0.34	mg/Kg wet	1.67		70.8	15-140			†
Pyrene	1.54	0.17	mg/Kg wet	1.67		92.6	40-140			
1,2,4-Trichlorobenzene	1.37	0.34	mg/Kg wet	1.67		82.4	40-140			
2,4,5-Trichlorophenol	0.779	0.34	mg/Kg wet	1.67		46.7	30-130			
2,4,6-Trichlorophenol	1.48	0.34	mg/Kg wet	1.67		88.9	30-130			
Surrogate: 2-Fluorophenol	*5.22*		mg/Kg wet	6.67		78.3	30-130			
Surrogate: Phenol-d6	*5.10*		mg/Kg wet	6.67		76.4	30-130			
Surrogate: Nitrobenzene-d5	*2.65*		mg/Kg wet	3.33		79.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.95*		mg/Kg wet	3.33		88.5	30-130			
Surrogate: 2,4,6-Tribromophenol	*8.38*		mg/Kg wet	6.67		126	30-130			
Surrogate: Terphenyl-d14	*3.47*		mg/Kg wet	3.33		104	30-130			
LCS Dup (B035466-BSD1)				Prepared & Analyzed: 08/15/11						
Acenaphthene	1.48	0.17	mg/Kg wet	1.67		88.6	40-140	9.91	30	
Acenaphthylene	1.46	0.17	mg/Kg wet	1.67		87.3	40-140	9.80	30	
Acetophenone	1.19	0.34	mg/Kg wet	1.67		71.3	40-140	0.280	30	
Aniline	0.759	0.34	mg/Kg wet	1.67		45.5	40-140	3.90	30	
Anthracene	1.57	0.17	mg/Kg wet	1.67		94.4	40-140	11.4	30	
Benzo(a)anthracene	1.47	0.17	mg/Kg wet	1.67		88.4	40-140	10.5	30	
Benzo(a)pyrene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140	8.87	30	
Benzo(b)fluoranthene	1.49	0.17	mg/Kg wet	1.67		89.5	40-140	7.80	30	
Benzo(g,h,i)perylene	1.63	0.17	mg/Kg wet	1.67		97.9	40-140	19.7	30	
Benzo(k)fluoranthene	1.51	0.17	mg/Kg wet	1.67		90.7	40-140	10.5	30	
Bis(2-chloroethoxy)methane	1.50	0.34	mg/Kg wet	1.67		89.8	40-140	10.7	30	
Bis(2-chloroethyl)ether	1.30	0.34	mg/Kg wet	1.67		77.8	40-140	9.75	30	
Bis(2-chloroisopropyl)ether	1.10	0.34	mg/Kg wet	1.67		65.7	40-140	0.213	30	
Bis(2-Ethylhexyl)phthalate	1.73	0.34	mg/Kg wet	1.67		104	40-140	11.7	30	
4-Bromophenylphenylether	1.47	0.34	mg/Kg wet	1.67		87.9	40-140	6.65	30	
Butylbenzylphthalate	1.78	0.66	mg/Kg wet	1.67		107	40-140	14.3	30	
4-Chloroaniline	1.00	0.66	mg/Kg wet	1.67		60.3	15-140	11.3	30	†
2-Chloronaphthalene	1.39	0.34	mg/Kg wet	1.67		83.6	40-140	14.4	30	
2-Chlorophenol	1.20	0.34	mg/Kg wet	1.67		71.7	30-130	5.51	30	
Chrysene	1.51	0.17	mg/Kg wet	1.67		90.6	40-140	10.3	30	
Dibenz(a,h)anthracene	1.61	0.17	mg/Kg wet	1.67		96.6	40-140	14.4	30	
Dibenzofuran	1.46	0.34	mg/Kg wet	1.67		87.5	40-140	8.06	30	
Di-n-butylphthalate	1.79	0.34	mg/Kg wet	1.67		107	40-140	14.5	30	
1,2-Dichlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.7	40-140	1.60	30	
1,3-Dichlorobenzene	1.15	0.34	mg/Kg wet	1.67		68.7	40-140	2.64	30	
1,4-Dichlorobenzene	1.29	0.34	mg/Kg wet	1.67		77.4	40-140	3.42	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 B035466 - SW-846 3546												
LCS Dup (B035466-BSD1)				Prepared & Analyzed: 08/15/11								
3,3-Dichlorobenzidine	1.32	0.17	mg/Kg wet	1.67		79.1		40-140	8.35	30	V-19	
2,4-Dichlorophenol	1.37	0.34	mg/Kg wet	1.67		82.5		30-130	1.78	30		
Diethylphthalate	1.65	0.34	mg/Kg wet	1.67		98.8		40-140	12.3	30		
2,4-Dimethylphenol	1.28	0.34	mg/Kg wet	1.67		76.9		30-130	1.26	30		
Dimethylphthalate	1.65	0.66	mg/Kg wet	1.67		98.7		40-140	12.9	30		
2,4-Dinitrophenol	1.59	0.66	mg/Kg wet	1.67		95.5		15-140	8.83	30	V-19	†
2,4-Dinitrotoluene	1.75	0.34	mg/Kg wet	1.67		105		40-140	11.8	30		
2,6-Dinitrotoluene	1.70	0.34	mg/Kg wet	1.67		102		40-140	12.0	30		
Di-n-octylphthalate	1.68	0.66	mg/Kg wet	1.67		101		40-140	7.09	30		
1,2-Diphenylhydrazine (as Azobenzene)	1.31	0.34	mg/Kg wet	1.67		78.8		40-140	6.20	30		
Fluoranthene	1.66	0.17	mg/Kg wet	1.67		99.6		40-140	8.41	30		
Fluorene	1.48	0.17	mg/Kg wet	1.67		89.0		40-140	8.45	30		
Hexachlorobenzene	1.52	0.34	mg/Kg wet	1.67		91.0		40-140	8.50	30		
Hexachlorobutadiene	1.47	0.34	mg/Kg wet	1.67		88.2		40-140	7.60	30		
Hexachloroethane	1.23	0.34	mg/Kg wet	1.67		73.9		40-140	0.862	30		
Indeno(1,2,3-cd)pyrene	1.47	0.17	mg/Kg wet	1.67		88.1		40-140	16.2	30		
Isophorone	1.30	0.34	mg/Kg wet	1.67		78.2		40-140	11.8	30		
2-Methylnaphthalene	1.31	0.17	mg/Kg wet	1.67		78.5		40-140	3.34	30		
2-Methylphenol	0.662	0.34	mg/Kg wet	1.67		39.7		30-130	8.61	30		
3/4-Methylphenol	1.26	0.34	mg/Kg wet	1.67		75.7		30-130	8.08	30		
Naphthalene	1.35	0.17	mg/Kg wet	1.67		81.2		40-140	7.04	30		
Nitrobenzene	1.25	0.34	mg/Kg wet	1.67		74.8		40-140	3.34	30		
2-Nitrophenol	1.67	0.34	mg/Kg wet	1.67		100		30-130	16.5	30		
4-Nitrophenol	1.85	0.66	mg/Kg wet	1.67		111		15-140	10.4	30		†
Pentachlorophenol	1.43	0.34	mg/Kg wet	1.67		85.8		30-130	8.61	30		
Phenanthrene	1.54	0.17	mg/Kg wet	1.67		92.3		40-140	11.1	30		
Phenol	1.22	0.34	mg/Kg wet	1.67		73.0		15-140	3.14	30		†
Pyrene	1.97	0.17	mg/Kg wet	1.67		118		40-140	24.3	30		
1,2,4-Trichlorobenzene	1.49	0.34	mg/Kg wet	1.67		89.5		40-140	8.29	30		
2,4,5-Trichlorophenol	0.819	0.34	mg/Kg wet	1.67		49.1		30-130	5.05	30		
2,4,6-Trichlorophenol	1.61	0.34	mg/Kg wet	1.67		96.9		30-130	8.62	30		
Surrogate: 2-Fluorophenol	*4.87*		mg/Kg wet	6.67		73.1		30-130				
Surrogate: Phenol-d6	*5.04*		mg/Kg wet	6.67		75.6		30-130				
Surrogate: Nitrobenzene-d5	*2.51*		mg/Kg wet	3.33		75.4		30-130				
Surrogate: 2-Fluorobiphenyl	*3.39*		mg/Kg wet	3.33		102		30-130				
Surrogate: 2,4,6-Tribromophenol	*9.08*		mg/Kg wet	6.67		**136**	*	30-130			S-23	
Surrogate: Terphenyl-d14	*4.20*		mg/Kg wet	3.33		126		30-130				

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B035461 - SW-846 3546												
Matrix Spike (B035461-MS1)	**Source: 11H0527-02**			Prepared: 08/15/11 Analyzed: 08/21/11								
Aldrin	0.022	0.0055	mg/Kg dry	0.0221	ND	99.6		30-150				
Aldrin [2C]	0.015	0.0055	mg/Kg dry	0.0221	ND	67.5		30-150				
alpha-BHC	0.025	0.0055	mg/Kg dry	0.0221	ND	112		30-150				
alpha-BHC [2C]	0.015	0.0055	mg/Kg dry	0.0221	ND	67.7		30-150				
beta-BHC	0.018	0.0055	mg/Kg dry	0.0221	ND	80.5		30-150				R-06
beta-BHC [2C]	0.013	0.0055	mg/Kg dry	0.0221	ND	57.0		30-150				R-06
delta-BHC	0.020	0.0055	mg/Kg dry	0.0221	ND	92.8		30-150				R-06
delta-BHC [2C]	0.012	0.0055	mg/Kg dry	0.0221	ND	55.9		30-150				
gamma-BHC (Lindane)	0.020	0.0022	mg/Kg dry	0.0221	ND	91.2		30-150				
gamma-BHC (Lindane) [2C]	0.020	0.0022	mg/Kg dry	0.0221	ND	88.6		30-150				
4,4'-DDD	0.018	0.0044	mg/Kg dry	0.0221	0.0082	46.2		30-150				
4,4'-DDD [2C]	0.023	0.0044	mg/Kg dry	0.0221	0.0052	82.3		30-150				
4,4'-DDE	0.016	0.0044	mg/Kg dry	0.0221	ND	73.2		30-150				R-06
4,4'-DDE [2C]	0.016	0.0044	mg/Kg dry	0.0221	ND	72.9		30-150				
4,4'-DDT	0.024	0.0044	mg/Kg dry	0.0221	0.0093	65.9		30-150				O-28
4,4'-DDT [2C]	0.031	0.0044	mg/Kg dry	0.0221	0.013	82.7		30-150				O-28
Dieldrin	0.011	0.0044	mg/Kg dry	0.0221	ND	51.6		30-150				
Dieldrin [2C]	0.018	0.0044	mg/Kg dry	0.0221	ND	80.6		30-150				
Endosulfan I	0.011	0.0055	mg/Kg dry	0.0221	ND	49.9		30-150				
Endosulfan I [2C]	0.015	0.0055	mg/Kg dry	0.0221	ND	68.6		30-150				
Endosulfan II	0.011	0.0088	mg/Kg dry	0.0221	ND	48.4		30-150				
Endosulfan II [2C]	0.025	0.0088	mg/Kg dry	0.0221	ND	114		30-150				
Endosulfan Sulfate	0.014	0.0088	mg/Kg dry	0.0221	ND	64.0		30-150				
Endosulfan Sulfate [2C]	0.023	0.0088	mg/Kg dry	0.0221	ND	104		30-150				
Endrin	0.018	0.0088	mg/Kg dry	0.0221	ND	83.0		30-150				
Endrin [2C]	0.022	0.0088	mg/Kg dry	0.0221	ND	97.8		30-150				
Endrin Ketone	0.012	0.0088	mg/Kg dry	0.0221	ND	54.1		30-150				R-06
Endrin Ketone [2C]	0.027	0.0088	mg/Kg dry	0.0221	ND	123		30-150				
Heptachlor	0.021	0.0055	mg/Kg dry	0.0221	ND	96.5		30-150				
Heptachlor [2C]	0.016	0.0055	mg/Kg dry	0.0221	ND	74.0		30-150				
Heptachlor Epoxide	0.019	0.0055	mg/Kg dry	0.0221	ND	85.4		30-150				
Heptachlor Epoxide [2C]	0.017	0.0055	mg/Kg dry	0.0221	ND	77.2		30-150				
Hexachlorobenzene	0.021	0.0055	mg/Kg dry	0.0221	ND	97.4		30-150				
Hexachlorobenzene [2C]	0.014	0.0055	mg/Kg dry	0.0221	ND	65.3		30-150				
Methoxychlor	0.32	0.055	mg/Kg dry	0.0221	ND	**1460**	*	30-150				MS-15, O-28
Methoxychlor [2C]	0.11	0.055	mg/Kg dry	0.0221	ND	**507**	*	30-150				MS-15, O-28
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg dry	0.221		95.0		30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg dry	0.221		82.8		30-150				
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg dry	0.221		84.0		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.135*		mg/Kg dry	0.221		61.1		30-150				
Matrix Spike Dup (B035461-MSD1)	**Source: 11H0527-02**			Prepared: 08/15/11 Analyzed: 08/21/11								
Aldrin	0.018	0.0055	mg/Kg dry	0.0218	ND	83.4		30-150	18.7		30	
Aldrin [2C]	0.012	0.0055	mg/Kg dry	0.0218	ND	54.2		30-150	23.0		30	
alpha-BHC	0.019	0.0055	mg/Kg dry	0.0218	ND	87.3		30-150	25.6		30	
alpha-BHC [2C]	0.012	0.0055	mg/Kg dry	0.0218	ND	56.2		30-150	19.6		30	
beta-BHC	0.012	0.0055	mg/Kg dry	0.0218	ND	57.1		30-150	**35.0**	*	30	R-06
beta-BHC [2C]	0.0086	0.0055	mg/Kg dry	0.0218	ND	39.6		30-150	**36.9**	*	30	R-06
delta-BHC	0.015	0.0055	mg/Kg dry	0.0218	ND	67.7		30-150	**32.2**	*	30	R-06
delta-BHC [2C]	0.010	0.0055	mg/Kg dry	0.0218	ND	47.2		30-150	18.0		30	
gamma-BHC (Lindane)	0.016	0.0022	mg/Kg dry	0.0218	ND	74.4		30-150	21.3		30	
gamma-BHC (Lindane) [2C]	0.017	0.0022	mg/Kg dry	0.0218	ND	79.2		30-150	12.2		30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B035461 - SW-846 3546												
Matrix Spike Dup (B035461-MSD1)	**Source: 11H0527-02**		Prepared: 08/15/11 Analyzed: 08/21/11									
4,4'-DDD	0.018	0.0044	mg/Kg dry	0.0218	0.0082	46.0		30-150	0.870		30	
4,4'-DDD [2C]	0.020	0.0044	mg/Kg dry	0.0218	0.0052	68.2		30-150	14.9		30	
4,4'-DDE	0.012	0.0044	mg/Kg dry	0.0218	ND	54.2		30-150	**30.9**	*	30	R-06
4,4'-DDE [2C]	0.013	0.0044	mg/Kg dry	0.0218	ND	57.5		30-150	24.6		30	
4,4'-DDT	0.021	0.0044	mg/Kg dry	0.0218	0.0093	54.6		30-150	11.6		30	O-28
4,4'-DDT [2C]	0.024	0.0044	mg/Kg dry	0.0218	0.013	50.1		30-150	26.6		30	O-28
Dieldrin	0.0094	0.0044	mg/Kg dry	0.0218	ND	42.9		30-150	19.5		30	
Dieldrin [2C]	0.015	0.0044	mg/Kg dry	0.0218	ND	67.5		30-150	18.8		30	
Endosulfan I	0.0096	0.0055	mg/Kg dry	0.0218	ND	43.9		30-150	13.9		30	
Endosulfan I [2C]	0.012	0.0055	mg/Kg dry	0.0218	ND	56.7		30-150	20.0		30	
Endosulfan II	0.0089	0.0087	mg/Kg dry	0.0218	ND	40.6		30-150	18.5		30	
Endosulfan II [2C]	0.024	0.0087	mg/Kg dry	0.0218	ND	111		30-150	3.50		30	
Endosulfan Sulfate	0.011	0.0087	mg/Kg dry	0.0218	ND	51.8		30-150	22.1		30	
Endosulfan Sulfate [2C]	0.020	0.0087	mg/Kg dry	0.0218	ND	90.6		30-150	14.8		30	
Endrin	0.015	0.0087	mg/Kg dry	0.0218	ND	69.2		30-150	19.1		30	
Endrin [2C]	0.018	0.0087	mg/Kg dry	0.0218	ND	80.6		30-150	20.3		30	
Endrin Ketone	0.0085	0.0087	mg/Kg dry	0.0218	ND	39.0		30-150	**33.3**	*	30	R-06
Endrin Ketone [2C]	0.023	0.0087	mg/Kg dry	0.0218	ND	105		30-150	16.8		30	
Heptachlor	0.017	0.0055	mg/Kg dry	0.0218	ND	77.8		30-150	22.5		30	
Heptachlor [2C]	0.013	0.0055	mg/Kg dry	0.0218	ND	61.2		30-150	19.9		30	
Heptachlor Epoxide	0.015	0.0055	mg/Kg dry	0.0218	ND	69.0		30-150	22.2		30	
Heptachlor Epoxide [2C]	0.014	0.0055	mg/Kg dry	0.0218	ND	63.3		30-150	20.8		30	
Hexachlorobenzene	0.017	0.0055	mg/Kg dry	0.0218	ND	77.8		30-150	23.3		30	
Hexachlorobenzene [2C]	0.012	0.0055	mg/Kg dry	0.0218	ND	54.8		30-150	18.6		30	
Methoxychlor	0.33	0.055	mg/Kg dry	0.0218	ND	**1510**	*	30-150	2.01		30	MS-15, O-28
Methoxychlor [2C]	0.11	0.055	mg/Kg dry	0.0218	ND	**522**	*	30-150	1.96		30	MS-15, O-28
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg dry	0.218		81.3		30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.148*		mg/Kg dry	0.218		67.8		30-150				
Surrogate: Tetrachloro-m-xylene	*0.153*		mg/Kg dry	0.218		70.2		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.111*		mg/Kg dry	0.218		50.8		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 B035462 - SW-846 3546										
Blank (B035462-BLK1)				Prepared: 08/15/11 Analyzed: 08/17/11						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.146*		mg/Kg wet	0.200		72.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.156*		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.219*		mg/Kg wet	0.200		109	30-150			
LCS (B035462-BS1)				Prepared: 08/15/11 Analyzed: 08/17/11						
Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		114	40-140			
Aroclor-1016 [2C]	0.18	0.10	mg/Kg wet	0.200		91.1	40-140			
Aroclor-1260	0.18	0.10	mg/Kg wet	0.200		92.0	40-140			
Aroclor-1260 [2C]	0.19	0.10	mg/Kg wet	0.200		95.5	40-140			
Surrogate: Decachlorobiphenyl	*0.162*		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.224*		mg/Kg wet	0.200		112	30-150			
LCS Dup (B035462-BSD1)				Prepared: 08/15/11 Analyzed: 08/17/11						
Aroclor-1016	0.27	0.10	mg/Kg wet	0.200		136	40-140	17.7	30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		106	40-140	15.6	30	
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		108	40-140	16.3	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140	14.5	30	
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.267*		mg/Kg wet	0.200		134	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 B035459 - SW-846 3546										
Blank (B035459-BLK1)				Prepared: 08/15/11 Analyzed: 08/16/11						
TPH C9-C36 Hydrocarbons as Diesel	ND	8.3	mg/Kg wet							
Surrogate: o-Terphenyl	*2.54*		mg/Kg wet	3.33		76.1	40-140			
LCS (B035459-BS1)				Prepared: 08/15/11 Analyzed: 08/16/11						
TPH C9-C36 Hydrocarbons as Diesel	22.4	8.3	mg/Kg wet	33.3		67.2	40-140			
Surrogate: o-Terphenyl	*2.79*		mg/Kg wet	3.33		83.7	40-140			
LCS Dup (B035459-BSD1)				Prepared: 08/15/11 Analyzed: 08/16/11						
TPH C9-C36 Hydrocarbons as Diesel	22.5	8.3	mg/Kg wet	33.3		67.6	40-140	0.681	30	
Surrogate: o-Terphenyl	*2.79*		mg/Kg wet	3.33		83.6	40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B035480 - SW-846 7471											
Blank (B035480-BLK1)				Prepared: 08/15/11 Analyzed: 08/16/11							
Mercury	ND	0.025	mg/Kg wet								
LCS (B035480-BS1)				Prepared: 08/15/11 Analyzed: 08/16/11							
Mercury	1.12	0.095	mg/Kg wet	1.25		89.2		66-132			
LCS Dup (B035480-BSD1)				Prepared: 08/15/11 Analyzed: 08/16/11							
Mercury	1.10	0.094	mg/Kg wet	1.25		87.7		66-132	1.75	30	
Batch B035543 - SW-846 3050B											
Blank (B035543-BLK1)				Prepared: 08/16/11 Analyzed: 08/17/11							
Arsenic	ND	2.5	mg/Kg wet								
Barium	ND	2.5	mg/Kg wet								
Cadmium	ND	0.25	mg/Kg wet								
Chromium	ND	0.50	mg/Kg wet								
Lead	ND	0.75	mg/Kg wet								
Selenium	ND	5.0	mg/Kg wet								
Silver	ND	0.50	mg/Kg wet								
LCS (B035543-BS1)				Prepared: 08/16/11 Analyzed: 08/17/11							
Arsenic	102	5.1	mg/Kg wet	92.6		110		83.2-117.4			
Barium	178	5.1	mg/Kg wet	169		105		83.1-116.9			
Cadmium	67.7	0.51	mg/Kg wet	61.8		110		80.7-119.1			
Chromium	74.3	1.0	mg/Kg wet	71.3		104		80.6-119.9			
Lead	93.4	1.5	mg/Kg wet	92.4		101		78.9-121.1			
Selenium	96.7	10	mg/Kg wet	89.5		108		79.2-120.3			
Silver	34.9	1.0	mg/Kg wet	34.4		101		66.3-133.7			
LCS (B035543-BS2)				Prepared: 08/16/11 Analyzed: 08/17/11							
Lead	0.552	0.74	mg/Kg wet	0.737		**74.9**	*	80-120			M-12
LCS Dup (B035543-BSD1)				Prepared: 08/16/11 Analyzed: 08/17/11							
Arsenic	100	5.1	mg/Kg wet	92.6		108		83.2-117.4	1.24	30	
Barium	178	5.1	mg/Kg wet	169		105		83.1-116.9	0.259	30	
Cadmium	68.5	0.51	mg/Kg wet	61.8		111		80.7-119.1	1.15	30	
Chromium	73.8	1.0	mg/Kg wet	71.3		104		80.6-119.9	0.630	30	
Lead	92.7	1.5	mg/Kg wet	92.4		100		78.9-121.1	0.698	30	
Selenium	96.2	10	mg/Kg wet	89.5		107		79.2-120.3	0.517	30	
Silver	35.1	1.0	mg/Kg wet	34.4		102		66.3-133.7	0.567	30	

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 B035652 - SM18-20 2510B										
Blank (B035652-BLK1)				Prepared & Analyzed: 08/17/11						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B035652-BS1)				Prepared & Analyzed: 08/17/11						
Specific conductance	140	2.0	µmhos/cm	147		93.5	78.2-106			
Batch B035672 - SW-846 1010										
Blank (B035672-BLK1)				Prepared & Analyzed: 08/17/11						
Flashpoint	> 212 °F		°F							
LCS (B035672-BS1)				Prepared & Analyzed: 08/17/11						
Flashpoint	81		°F	81.0		99.5	98.8-101			
LCS Dup (B035672-BSD1)				Prepared & Analyzed: 08/17/11						
Flashpoint	81		°F	81.0		99.5	98.8-101	0.00	1.57	
Batch B035678 - SW-846 9014										
Blank (B035678-BLK1)				Prepared & Analyzed: 08/17/11						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B035678-BS1)				Prepared & Analyzed: 08/17/11						
Reactive Cyanide	10	0.40	mg/Kg	10.0		104	0-200			
Batch B035728 - SW-846 9030A										
Blank (B035728-BLK1)				Prepared & Analyzed: 08/17/11						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B035728-BS1)				Prepared & Analyzed: 08/17/11						
Reactive Sulfide	12	2.0	mg/Kg	15.2		78.9	0-200			

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B035566 - SW-846 3010A										
Blank (B035566-BLK1)				Prepared: 08/16/11 Analyzed: 08/17/11						
Lead	ND	0.010	mg/L							
LCS (B035566-BS1)				Prepared: 08/16/11 Analyzed: 08/17/11						
Lead	0.485	0.010	mg/L	0.500		97.1	80-120			
LCS Dup (B035566-BSD1)				Prepared: 08/16/11 Analyzed: 08/17/11						
Lead	0.502	0.010	mg/L	0.500		100	80-120	3.45	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch H110817 - SW-846 3540C										
BLK (H110817-BLK1)				Prepared & Analyzed: 08/17/11						
2,4-D	ND	50	µg/Kg				-			
2,4-DB	ND	50	µg/Kg				-			
2,4,5-TP (Silvex)	ND	50	µg/Kg				-			
2,4,5-T	ND	50	µg/Kg				-			
Dalapon	ND	50	µg/Kg				-			
Dicamba	ND	50	µg/Kg				-			
Dichloroprop	ND	50	µg/Kg				-			
Dinoseb	ND	50	µg/Kg				-			
Surrogate: DCMA	*92*		µg/Kg			92	30-150			
BS (H110817-BS1)				Prepared & Analyzed: 08/17/11						
2,4-D	900	250	µg/Kg	1000		90	40-140			
2,4-DB	860	250	µg/Kg	1000		86	40-140			
2,4,5-TP (Silvex)	1020	250	µg/Kg	1000		102	40-140			
2,4,5-T	1050	250	µg/Kg	1000		105	40-140			
Dalapon	1050	250	µg/Kg	1000		105	40-140			
Dicamba	1230	250	µg/Kg	1000		123	40-140			
Dichloroprop	1010	250	µg/Kg	1000		101	40-140			
Dinoseb	770	250	µg/Kg	1000		77	40-140			
Surrogate: DCMA	*99*		µg/Kg			99	30-150			
BSD (H110817-BSD1)				Prepared & Analyzed: 08/17/11						
2,4-D	1080	250	µg/Kg	1000		108	40-140			
2,4-DB	790	250	µg/Kg	1000		79	40-140			
2,4,5-TP (Silvex)	1050	250	µg/Kg	1000		105	40-140			
2,4,5-T	850	250	µg/Kg	1000		85	40-140			
Dalapon	1150	250	µg/Kg	1000		115	40-140			
Dicamba	1170	250	µg/Kg	1000		117	40-140			
Dichloroprop	1020	250	µg/Kg	1000		102	40-140			
Dinoseb	590	250	µg/Kg	1000		59	40-140			
Surrogate: DCMA	*96*		µg/Kg			96	30-150			

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BREAKDOWN REPORT

Lab Sample ID: **S000952-PEM1** **Analyzed:** **08/20/2011**

Column Number: **1**

Analyte	% Breakdown
4,4'-DDT [1]	0.00
Endrin [1]	3.48

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.00
Endrin [2]	2.53

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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.
B-06	Continuing calibration blank did not meet method specified criteria. Data is not affected since all associated samples were "Not Detected" even though CCB value was above the reporting limit.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
L-14	Compound classified by MA CAM as difficult with acceptable recoveries of 40-160%. Recovery does not meet 70-130% criteria but does meet difficult compound criteria.
M-12	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the low side.
MS-15	Matrix spike and matrix spike duplicate recoveries are outside of control limits. Data validation is not affected since results for this compound in this sample are "not detected", and recovery bias is on the high side.
O-28	Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the low side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. The higher result was reported.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
S-07	One associated surrogate standard recovery is outside of control limits but the other(s) is/are within limits. All recoveries are > 10%.
S-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
V-19	Initial calibration did not meet method specifications. Compound was calibrated using linear regression with correlation coefficient <0.99.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.
V-24	Continuing calibration verification was outside of control limits on the confirmation column, but within control limits on the primary column. All sample results are reported from the column within control criteria.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC
Barium	CT,NH,NY,ME,NC
Cadmium	CT,NH,NY,ME,NC
Chromium	CT,NH,NY,ME,NC
Lead	CT,NH,NY,AIHA,ME,NC
Selenium	CT,NH,NY,ME,NC
Silver	CT,NH,NY,ME,NC
SW-846 6010C in Water	
Lead	NY,CT,ME,NC,NH
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME
SW-846 8081B in Soil	
Aldrin	CT,NC,NH,NY,ME
Aldrin [2C]	CT,NC,NH,NY,ME
alpha-BHC	CT,NC,NH,NY,ME
alpha-BHC [2C]	CT,NC,NH,NY,ME
beta-BHC	CT,NC,NH,NY,ME
beta-BHC [2C]	CT,NC,NH,NY,ME
delta-BHC	CT,NC,NH,NY,ME
delta-BHC [2C]	CT,NC,NH,NY,ME
gamma-BHC (Lindane)	CT,NC,NH,NY,ME
gamma-BHC (Lindane) [2C]	CT,NC,NH,NY,ME
Chlordane	CT,NC,NH,NY,ME
Chlordane [2C]	CT,NC,NH,NY,ME
4,4'-DDD	CT,NC,NH,NY,ME
4,4'-DDD [2C]	CT,NC,NH,NY,ME
4,4'-DDE	CT,NC,NH,NY,ME
4,4'-DDE [2C]	CT,NC,NH,NY,ME
4,4'-DDT	CT,NC,NH,NY,ME
4,4'-DDT [2C]	CT,NC,NH,NY,ME
Dieldrin	CT,NC,NH,NY,ME
Dieldrin [2C]	CT,NC,NH,NY,ME
Endosulfan I	CT,NC,NH,NY,ME
Endosulfan I [2C]	CT,NC,NH,NY,ME
Endosulfan II	CT,NC,NH,NY,ME
Endosulfan II [2C]	CT,NC,NH,NY,ME
Endosulfan Sulfate	CT,NC,NH,NY,ME
Endosulfan Sulfate [2C]	CT,NC,NH,NY,ME
Endrin	CT,NC,NH,NY,ME
Endrin [2C]	CT,NC,NH,NY,ME
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NC,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Heptachlor [2C]	CT,NC,NH,NY,ME
Heptachlor Epoxide	CT,NC,NH,NY,ME
Heptachlor Epoxide [2C]	CT,NC,NH,NY,ME
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NC,NH,NY,ME
Methoxychlor [2C]	CT,NC,NH,NY,ME
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8260C in Soil	
Acetone	CT,NH,NY,NC,ME
tert-Amyl Methyl Ether (TAME)	NC
Benzene	CT,NH,NY,NC,ME
Bromobenzene	NH,NY,NC,ME
Bromochloromethane	NH,NY,NC,ME
Bromodichloromethane	CT,NH,NY,NC,ME
Bromoform	CT,NH,NY,NC,ME
Bromomethane	CT,NH,NY,NC,ME
2-Butanone (MEK)	CT,NH,NY,NC,ME
n-Butylbenzene	CT,NH,NY,NC,ME
sec-Butylbenzene	CT,NH,NY,NC,ME
tert-Butylbenzene	CT,NH,NY,NC,ME
tert-Butyl Ethyl Ether (TBEE)	NC
Carbon Disulfide	CT,NH,NY,NC,ME
Carbon Tetrachloride	CT,NH,NY,NC,ME
Chlorobenzene	CT,NH,NY,NC,ME
Chlorodibromomethane	CT,NH,NY,NC,ME
Chloroethane	CT,NH,NY,NC,ME
Chloroform	CT,NH,NY,NC,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Chloromethane	CT,NH,NY,NC,ME
2-Chlorotoluene	CT,NH,NY,NC,ME
4-Chlorotoluene	CT,NH,NY,NC,ME
1,2-Dibromo-3-chloropropane (DBCP)	NC
1,2-Dibromoethane (EDB)	NC
Dibromomethane	NH,NY,NC,ME
1,2-Dichlorobenzene	CT,NH,NY,NC,ME
1,3-Dichlorobenzene	CT,NH,NY,NC,ME
1,4-Dichlorobenzene	CT,NH,NY,NC,ME
Dichlorodifluoromethane (Freon 12)	NY,NC,ME
1,1-Dichloroethane	CT,NH,NY,NC,ME
1,2-Dichloroethane	CT,NH,NY,NC,ME
1,1-Dichloroethylene	CT,NH,NY,NC,ME
cis-1,2-Dichloroethylene	CT,NH,NY,NC,ME
trans-1,2-Dichloroethylene	CT,NH,NY,NC,ME
1,2-Dichloropropane	CT,NH,NY,NC,ME
1,3-Dichloropropane	NH,NY,NC,ME
2,2-Dichloropropane	NH,NY,NC,ME
1,1-Dichloropropene	NH,NY,NC,ME
cis-1,3-Dichloropropene	CT,NH,NY,NC,ME
trans-1,3-Dichloropropene	CT,NH,NY,NC,ME
Diethyl Ether	NC
Diisopropyl Ether (DIPE)	NC
1,4-Dioxane	NC
Ethylbenzene	CT,NH,NY,NC,ME
Hexachlorobutadiene	NH,NY,NC,ME
2-Hexanone (MBK)	CT,NH,NY,NC,ME
Isopropylbenzene (Cumene)	CT,NH,NY,NC,ME
p-Isopropyltoluene (p-Cymene)	NC
Methyl tert-Butyl Ether (MTBE)	NC
Methylene Chloride	CT,NH,NY,NC,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,NC
Naphthalene	NH,NY,NC,ME
n-Propylbenzene	NC
Styrene	CT,NH,NY,NC,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,NC,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,NC,ME
Tetrachloroethylene	CT,NH,NY,NC,ME
Tetrahydrofuran	NC
Toluene	CT,NH,NY,NC,ME
1,2,3-Trichlorobenzene	NC,ME
1,2,4-Trichlorobenzene	NH,NY,NC,ME
1,1,1-Trichloroethane	CT,NH,NY,NC,ME
1,1,2-Trichloroethane	CT,NH,NY,NC,ME
Trichloroethylene	CT,NH,NY,NC,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,NC,ME
1,2,3-Trichloropropane	NH,NY,NC,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,2,4-Trimethylbenzene	CT,NH,NY,NC,ME
1,3,5-Trimethylbenzene	CT,NH,NY,NC,ME
Vinyl Chloride	CT,NH,NY,NC,ME
m+p Xylene	CT,NH,NY,NC,ME
o-Xylene	CT,NH,NY,NC,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 9014 in Soil	
Reactive Cyanide	NY,CT,NH
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD

Page 1 of 1

Company Name: MILLENNIUM ENVIRONMENTAL Telephone: (508) 303-7000
Address: 197M BOSTON POST RD. W #318 Project # RYS-001
MARLBORO, MA 01752 Client PO# 1
Attention: JESSE MAGES
Project Location: READVILLE YARD 5
Sampled By: JM

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

DATA DELIVERY (check all that apply)
✓ FAX ✓ EMAIL ○ WEBSITE
Fax # (508) 303-0006
Email: JMAGES@ATLANTICDOMO.COM
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

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	TCLP Pb	VOCs	SVOCs	HERB	PCBs	TPH 8100	RCRA 6 *	FLASHPOINT	REACTIVITY	CORROSIVITY	CONDUCTIVITY
-01	RYS-TSP1-(0-200) CONF	8/12/11	11:45	X	X VOA	S	U	X										
-02	〃 〃 〃								X									
-03	RYS-TSP1 (200-400) CONF							X										
-04	〃 〃 〃								X									
-05	RYS-TSP1 (400-600) CONF							X										
-06	〃 〃 〃								X									
-07	RYS-TSP1 (600-700) CONF							X										
08	〃 〃 〃		12:15						X									

ANALYSIS REQUESTED

# of Containers	2	1									
** Preservation		M									
***Container Code	A	V									

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 RUN TCLP ON METALS EXCEEDING 20X RULE EXCEPT FOR Pb!!!

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: 8/12/11	12:45
Received by: (signature)	Date/Time: 8/12/11	1430
Relinquished by: (signature)	Date/Time: 8-12-11	1750
Received by: (signature)	Date/Time: 8/12/11	1750

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

Detection Limit Requirements
Massachusetts: RCS-1
Connecticut:
Other:

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist



CLIENT NAME: Millennium Environmental RECEIVED BY: SD DATE: 8/12/11

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 5.3

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:

Containers received at Con-Test

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

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 4

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc. Project #: 11H0527

Project Location: RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):
W0815-29

Matrices: Groundwater/Surface Water x Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C x	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	X Yes No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	X Yes No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	X Yes No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	X Yes No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes No Yes No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	X Yes No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	X Yes No[1]

***Data User Note:** Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.*

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	X Yes No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	Yes X No[1]

[1] *All negative responses must be addressed in an attached laboratory narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ **Position:** Laboratory Director

Printed Name: Richard Warila **Date:** 8/17/2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H0527
Project Location: Readville Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H0527-01 thru 11H0527-08

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B (X)	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]
	A response to questions G, H and I below is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]
	***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**		
H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 08/22/11

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September 13, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5
Laboratory Work Order Number: 11H1248

Enclosed are results of analyses for samples received by the laboratory on August 31, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 9/13/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H1248

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-520-D	11H1248-01	Soil		SM 2540G	
				SM18-20 2510B	
				SM2580 A	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
RY5-520-C(1)	11H1248-02	Soil		SM 2540G	
				SM18-20 2510B	
				SM2580 A	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

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Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 9/13/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H1248

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-520-C(2)	11H1248-03	Soil		SM 2540G	
				SM18-20 2510B	
				SM2580 A	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
RY5-520-B(1)	11H1248-04	Soil		SM 2540G	
				SM18-20 2510B	
				SM2580 A	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

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Millennium Environmental, Inc.
197M Boston Post Road West #318
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ATTN: Jesse Maggs

REPORT DATE: 9/13/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11H1248

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-520-B(2)	11H1248-05	Soil		SM 2540G	
				SM18-20 2510B	
				SM2580 A	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	
RY5-520-B(3)	11H1248-06	Soil		SM 2540G	
				SM18-20 2510B	
				SM2580 A	
				SW-846 1010	
				SW-846 6010C	
				SW-846 7471B	
				SW-846 8081B	
				SW-846 8082A	
				SW-846 8100 Modified	
				SW-846 8151A	MA M-RI010/CT PH-0740/NY11673/+ Additional
				SW-846 8260C	
				SW-846 8270D	
				SW-846 9014	
				SW-846 9030A	
				SW-846 9045C	

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CASE NARRATIVE SUMMARY

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

For method 6010, only RCRA 8 metals were requested and reported.

SW-846 6010C

Qualifications:

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Samples(s) Qualified:

Lead

11H1248-01[RY5-520-D], 11H1248-02[RY5-520-C(1)], 11H1248-03[RY5-520-C(2)], 11H1248-04[RY5-520-B(1)], 11H1248-05[RY5-520-B(2)], 11H1248-06[RY5-520-B(3)], B036600-BS2

SW-846 8081B

Qualifications:

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

11H1248-01[RY5-520-D], 11H1248-02[RY5-520-C(1)], 11H1248-03[RY5-520-C(2)], 11H1248-04[RY5-520-B(1)], 11H1248-05[RY5-520-B(2)], 11H1248-06[RY5-520-B(3)]

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

11H1248-01[RY5-520-D]

SW-846 8100 Modified

Qualifications:

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

Analyte & Samples(s) Qualified:

TPH C9-C36 Hydrocarbons as Diesel

11H1248-01[RY5-520-D], B036577-MS1, B036577-MSD1

SW-846 8260C

Qualifications:

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

Analyte & Samples(s) Qualified:

Tetrahydrofuran

11H1248-01[RY5-520-D], 11H1248-02[RY5-520-C(1)], 11H1248-03[RY5-520-C(2)], 11H1248-04[RY5-520-B(1)], 11H1248-05[RY5-520-B(2)], 11H1248-06[RY5-520-B(3)], B036586-BLK1, B036586-BS1, B036586-BSD1

Elevated reporting limit based on lowest point in calibration.
MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

1,2,3-Trichlorobenzene, 1,2-Dibromo-3-chloropropane (DBCP), Carbon Disulfide, Methylene Chloride, Tetrahydrofuran

11H1248-01[RY5-520-D], 11H1248-02[RY5-520-C(1)], 11H1248-03[RY5-520-C(2)], 11H1248-04[RY5-520-B(1)], 11H1248-05[RY5-520-B(2)], 11H1248-06[RY5-520-B(3)]

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

Analyte & Samples(s) Qualified:

Chloromethane

11H1248-01[RY5-520-D], 11H1248-02[RY5-520-C(1)], 11H1248-03[RY5-520-C(2)], 11H1248-04[RY5-520-B(1)], 11H1248-05[RY5-520-B(2)], 11H1248-06[RY5-520-B(3)], B036586-BLK1, B036586-BS1, B036586-BSD1

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

Analyte & Samples(s) Qualified:

1,4-Dioxane

11H1248-01[RY5-520-D], 11H1248-02[RY5-520-C(1)], 11H1248-03[RY5-520-C(2)], 11H1248-04[RY5-520-B(1)], 11H1248-05[RY5-520-B(2)], 11H1248-06[RY5-520-B(3)], B036586-BLK1, B036586-BS1, B036586-BSD1

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

Analyte & Samples(s) Qualified:

Bromomethane

B036586-BS1, B036586-BSD1

SW-846 8270D

Qualifications:

Compound classified by MA CAM as difficult with acceptable recoveries of 15-140%. Recovery does not meet criteria of 40-140% for Base/Neutral or 30-130% for Acids but does meet difficult compound criteria.

Analyte & Samples(s) Qualified:

4-Chloroaniline

B036579-BS1

Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.

Analyte & Samples(s) Qualified:

, 4-Chloroaniline, Butylbenzylphthalate, Dimethylphthalate, Di-n-octylphthalate

11H1248-01[RY5-520-D], 11H1248-03[RY5-520-C(2)], 11H1248-05[RY5-520-B(2)], 11H1248-02[RY5-520-C(1)], 11H1248-04[RY5-520-B(1)], 11H1248-06[RY5-520-B(3)]

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:

1,2-Diphenylhydrazine (as Azobenzene), 4-Nitrophenol, Bis(2-chloroisopropyl)ether, Nitrobenzene

11H1248-02[RY5-520-C(1)], 11H1248-04[RY5-520-B(1)], B036579-BLK1, B036579-BS1, B036579-BSD1

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine, Indeno(1,2,3-cd)pyrene, Pyrene

B036579-BLK1, B036579-BS1, B036579-BSD1, 11H1248-02[RY5-520-C(1)], 11H1248-04[RY5-520-B(1)]

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

Analyte & Samples(s) Qualified:

3,3-Dichlorobenzidine, Bis(2-chloroethyl)ether, Bis(2-chloroisopropyl)ether, Bis(2-Ethylhexyl)phthalate, Butylbenzylphthalate, Di-n-octylphthalate, Indeno(1,2,3-cd)pyrene, Phenol

11H1248-02[RY5-520-C(1)], 11H1248-04[RY5-520-B(1)], 11H1248-01[RY5-520-D], 11H1248-03[RY5-520-C(2)], 11H1248-05[RY5-520-B(2)], 11H1248-06[RY5-520-B(3)]

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SW-846 8100 Modified

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

SW-846 8260C

Laboratory control sample recoveries for required MCP Data Enhancement 8260 compounds were all within limits specified by the method except for “difficult analytes” where recovery control limits of 40-160% are used and/or unless otherwise listed in this narrative. Difficult analytes: MIBK, MEK, acetone, 1,4-dioxane, chloromethane, dichlorodifluoromethane, 2-hexanone, and bromomethane.

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.8	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Benzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Bromobenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Bromochloromethane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Bromodichloromethane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Bromoform	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Bromomethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
2-Butanone (MEK)	ND	1.5	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
n-Butylbenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
sec-Butylbenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
tert-Butylbenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Carbon Disulfide	ND	0.77	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Carbon Tetrachloride	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Chlorobenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Chlorodibromomethane	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Chloroethane	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Chloroform	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Chloromethane	ND	0.15	mg/Kg dry	1	V-05	SW-846 8260C	9/1/11	9/3/11 4:22	TJR
2-Chlorotoluene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
4-Chlorotoluene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.38	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2-Dibromoethane (EDB)	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Dibromomethane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2-Dichlorobenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,3-Dichlorobenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,4-Dichlorobenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Dichlorodifluoromethane (Freon 12)	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,1-Dichloroethane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2-Dichloroethane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,1-Dichloroethylene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
cis-1,2-Dichloroethylene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
trans-1,2-Dichloroethylene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2-Dichloropropane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,3-Dichloropropane	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
2,2-Dichloropropane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,1-Dichloropropene	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
cis-1,3-Dichloropropene	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
trans-1,3-Dichloropropene	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Diethyl Ether	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Diisopropyl Ether (DIPE)	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,4-Dioxane	ND	3.8	mg/Kg dry	1	V-16	SW-846 8260C	9/1/11	9/3/11 4:22	TJR

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Hexachlorobutadiene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
2-Hexanone (MBK)	ND	0.77	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Isopropylbenzene (Cumene)	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
p-Isopropyltoluene (p-Cymene)	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Methyl tert-Butyl Ether (MTBE)	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Methylene Chloride	ND	0.38	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 4:22	TJR
4-Methyl-2-pentanone (MIBK)	ND	0.77	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Naphthalene	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
n-Propylbenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Styrene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,1,1,2-Tetrachloroethane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,1,2,2-Tetrachloroethane	ND	0.038	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Tetrachloroethylene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Tetrahydrofuran	ND	0.77	mg/Kg dry	1	R-05, RL-07	SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Toluene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2,3-Trichlorobenzene	ND	0.38	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2,4-Trichlorobenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,1,1-Trichloroethane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,1,2-Trichloroethane	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Trichloroethylene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Trichlorofluoromethane (Freon 11)	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2,3-Trichloropropane	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,2,4-Trimethylbenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
1,3,5-Trimethylbenzene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
Vinyl Chloride	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
m+p Xylene	ND	0.15	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR
o-Xylene	ND	0.077	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 4:22	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	103	70-130		9/3/11 4:22
Toluene-d8	99.9	70-130		9/3/11 4:22
4-Bromofluorobenzene	95.6	70-130		9/3/11 4:22

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Acenaphthylene	ND	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Acetophenone	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Aniline	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Anthracene	2.3	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Benzo(a)anthracene	9.7	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Benzo(a)pyrene	8.2	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Benzo(b)fluoranthene	13	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Benzo(g,h,i)perylene	6.7	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Benzo(k)fluoranthene	5.3	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Bis(2-chloroethoxy)methane	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Bis(2-chloroethyl)ether	ND	3.7	mg/Kg dry	5	V-20	SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Bis(2-chloroisopropyl)ether	ND	3.7	mg/Kg dry	5	V-20	SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Bis(2-Ethylhexyl)phthalate	ND	3.7	mg/Kg dry	5	V-20	SW-846 8270D	9/1/11	9/6/11 11:39	BGL
4-Bromophenylphenylether	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Butylbenzylphthalate	ND	7.2	mg/Kg dry	5	V-20	SW-846 8270D	9/1/11	9/6/11 11:39	BGL
4-Chloroaniline	ND	7.2	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2-Chloronaphthalene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2-Chlorophenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Chrysene	12	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Dibenz(a,h)anthracene	2.0	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Dibenzofuran	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Di-n-butylphthalate	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
1,2-Dichlorobenzene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
1,3-Dichlorobenzene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
1,4-Dichlorobenzene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
3,3-Dichlorobenzidine	ND	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2,4-Dichlorophenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Diethylphthalate	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2,4-Dimethylphenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Dimethylphthalate	ND	7.2	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2,4-Dinitrophenol	ND	7.2	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2,4-Dinitrotoluene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2,6-Dinitrotoluene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Di-n-octylphthalate	ND	7.2	mg/Kg dry	5	V-20	SW-846 8270D	9/1/11	9/6/11 11:39	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Fluoranthene	17	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Fluorene	ND	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Hexachlorobenzene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Hexachlorobutadiene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Hexachloroethane	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Indeno(1,2,3-cd)pyrene	8.7	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Isophorone	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2-Methylphenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
3/4-Methylphenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Naphthalene	ND	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Nitrobenzene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2-Nitrophenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
4-Nitrophenol	ND	7.2	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Pentachlorophenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Phenanthrene	3.8	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Phenol	ND	3.7	mg/Kg dry	5	V-20	SW-846 8270D	9/1/11	9/6/11 11:39	BGL
Pyrene	22	1.9	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
1,2,4-Trichlorobenzene	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2,4,5-Trichlorophenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL
2,4,6-Trichlorophenol	ND	3.7	mg/Kg dry	5		SW-846 8270D	9/1/11	9/6/11 11:39	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	68.0	30-130		9/6/11 11:39
Phenol-d6	71.9	30-130		9/6/11 11:39
Nitrobenzene-d5	75.7	30-130		9/6/11 11:39
2-Fluorobiphenyl	74.3	30-130		9/6/11 11:39
2,4,6-Tribromophenol	63.9	30-130		9/6/11 11:39
Terphenyl-d14	92.0	30-130		9/6/11 11:39

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
alpha-BHC [1]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
beta-BHC [1]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
delta-BHC [1]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
gamma-BHC (Lindane) [1]	ND	0.022	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Chlordane [1]	ND	0.22	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
4,4'-DDD [1]	0.049	0.043	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
4,4'-DDE [1]	ND	0.043	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
4,4'-DDT [1]	0.11	0.043	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Dieldrin [1]	ND	0.043	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Endosulfan I [1]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Endosulfan II [1]	ND	0.086	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Endosulfan sulfate [1]	ND	0.086	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Endrin [1]	ND	0.086	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Endrin ketone [1]	ND	0.086	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Heptachlor [1]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Heptachlor epoxide [1]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Hexachlorobenzene [1]	ND	0.054	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG
Methoxychlor [1]	ND	0.54	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:56	PJG

Surrogates	% Recovery		Recovery Limits	Flag		
Decachlorobiphenyl [1]	**231**	*	30-150	S-02		9/8/11 23:56
Decachlorobiphenyl [2]	101		30-150			9/8/11 23:56
Tetrachloro-m-xylene [1]	87.6		30-150			9/8/11 23:56
Tetrachloro-m-xylene [2]	82.1		30-150			9/8/11 23:56

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB
Aroclor-1248 [2]	1.3	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB
Aroclor-1260 [1]	0.38	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.5	30-150		9/1/11 19:02
Decachlorobiphenyl [2]	92.8	30-150		9/1/11 19:02
Tetrachloro-m-xylene [1]	114	30-150		9/1/11 19:02
Tetrachloro-m-xylene [2]	109	30-150		9/1/11 19:02

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	1200	360	mg/Kg dry	20	MS-19	SW-846 8100 Modified	9/1/11	9/6/11 23:20	AP

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl	81.8	40-140		9/6/11 23:20

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	7.2	2.7	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 15:59	OP
Barium	900	2.7	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 15:59	OP
Cadmium	6.8	0.27	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 15:59	OP
Chromium	54	0.53	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 15:59	OP
Lead	2400	0.80	mg/Kg dry	1	M-10	SW-846 6010C	9/1/11	9/2/11 15:59	OP
Mercury	0.59	0.056	mg/Kg dry	2		SW-846 7471B	9/1/11	9/1/11 15:35	CWB
Selenium	ND	5.3	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 15:59	OP
Silver	1.2	0.53	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 15:59	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	9/1/11	9/1/11 19:05	DEF
Oxidation/Reduction Potential	61		mV	1		SM2580 A	9/1/11	9/1/11 11:45	LL
pH @19.6°C	7.0		pH Units	1		SW-846 9045C	9/1/11	9/1/11 9:30	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	9/1/11	9/2/11 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	9/1/11	9/1/11 20:36	DEF
Specific conductance	7.7	2.0	µmhos/cm	1		SM18-20 2510B	9/6/11	9/6/11 11:30	LL
% Solids	90.9		% Wt	1		SM 2540G	9/6/11	9/6/11 17:01	VAF

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-D

Sample ID: 11H1248-01 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4-DB	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-TP (Silvex)	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-T	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dalapon	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dicamba	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dichloroprop	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dinoseb	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	104	30-150				9/3/11 0:00	

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.8	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Benzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Bromobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Bromochloromethane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Bromodichloromethane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Bromoform	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Bromomethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
2-Butanone (MEK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
n-Butylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
sec-Butylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
tert-Butylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Carbon Disulfide	ND	0.57	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Carbon Tetrachloride	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Chlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Chlorodibromomethane	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Chloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Chloroform	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Chloromethane	ND	0.11	mg/Kg dry	1	V-05	SW-846 8260C	9/1/11	9/3/11 1:20	TJR
2-Chlorotoluene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
4-Chlorotoluene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2-Dibromoethane (EDB)	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Dibromomethane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2-Dichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,3-Dichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,4-Dichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Dichlorodifluoromethane (Freon 12)	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,1-Dichloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2-Dichloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,1-Dichloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
cis-1,2-Dichloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
trans-1,2-Dichloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2-Dichloropropane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,3-Dichloropropane	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
2,2-Dichloropropane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,1-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
cis-1,3-Dichloropropene	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
trans-1,3-Dichloropropene	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Diethyl Ether	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Diisopropyl Ether (DIPE)	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,4-Dioxane	ND	2.8	mg/Kg dry	1	V-16	SW-846 8260C	9/1/11	9/3/11 1:20	TJR

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Hexachlorobutadiene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
2-Hexanone (MBK)	ND	0.57	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Isopropylbenzene (Cumene)	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
p-Isopropyltoluene (p-Cymene)	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Methyl tert-Butyl Ether (MTBE)	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Methylene Chloride	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 1:20	TJR
4-Methyl-2-pentanone (MIBK)	ND	0.57	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Naphthalene	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
n-Propylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Styrene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,1,1,2-Tetrachloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,1,2,2-Tetrachloroethane	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Tetrachloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Tetrahydrofuran	ND	0.57	mg/Kg dry	1	R-05, RL-07	SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Toluene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2,3-Trichlorobenzene	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2,4-Trichlorobenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,1,1-Trichloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,1,2-Trichloroethane	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Trichloroethylene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Trichlorofluoromethane (Freon 11)	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2,3-Trichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,2,4-Trimethylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
1,3,5-Trimethylbenzene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
Vinyl Chloride	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
m+p Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR
o-Xylene	ND	0.057	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:20	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	102	70-130		9/3/11 1:20
Toluene-d8	100	70-130		9/3/11 1:20
4-Bromofluorobenzene	96.5	70-130		9/3/11 1:20

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Acenaphthylene	0.39	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Acetophenone	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Aniline	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Anthracene	0.58	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Benzo(a)anthracene	3.0	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Benzo(a)pyrene	2.7	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Benzo(b)fluoranthene	4.7	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Benzo(g,h,i)perylene	1.3	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Benzo(k)fluoranthene	1.8	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Bis(2-chloroethoxy)methane	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Bis(2-chloroethyl)ether	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Bis(2-chloroisopropyl)ether	ND	0.77	mg/Kg dry	1	V-05	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
4-Bromophenylphenylether	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Butylbenzylphthalate	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
4-Chloroaniline	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2-Chloronaphthalene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2-Chlorophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Chrysene	3.5	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Dibenz(a,h)anthracene	0.39	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Dibenzofuran	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Di-n-butylphthalate	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
1,2-Dichlorobenzene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
1,3-Dichlorobenzene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
1,4-Dichlorobenzene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
3,3-Dichlorobenzidine	ND	0.39	mg/Kg dry	1	V-20	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2,4-Dichlorophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Diethylphthalate	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2,4-Dimethylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Dimethylphthalate	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2,4-Dinitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2,4-Dinitrotoluene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2,6-Dinitrotoluene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Di-n-octylphthalate	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.77	mg/Kg dry	1	V-05	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Fluoranthene	5.5	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Fluorene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Hexachlorobenzene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Hexachlorobutadiene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Hexachloroethane	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Indeno(1,2,3-cd)pyrene	1.7	0.39	mg/Kg dry	1	V-06	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Isophorone	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2-Methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
3/4-Methylphenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Naphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Nitrobenzene	ND	0.77	mg/Kg dry	1	V-05	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2-Nitrophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
4-Nitrophenol	ND	1.5	mg/Kg dry	1	V-05	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Pentachlorophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Phenanthrene	1.6	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Phenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
Pyrene	5.0	0.39	mg/Kg dry	1	V-06	SW-846 8270D	9/1/11	9/2/11 14:45	BGL
1,2,4-Trichlorobenzene	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2,4,5-Trichlorophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL
2,4,6-Trichlorophenol	ND	0.77	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 14:45	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	93.5	30-130		9/2/11 14:45
Phenol-d6	95.3	30-130		9/2/11 14:45
Nitrobenzene-d5	64.6	30-130		9/2/11 14:45
2-Fluorobiphenyl	101	30-130		9/2/11 14:45
2,4,6-Tribromophenol	63.4	30-130		9/2/11 14:45
Terphenyl-d14	79.4	30-130		9/2/11 14:45

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
alpha-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
beta-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
delta-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
gamma-BHC (Lindane) [1]	ND	0.023	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Chlordane [1]	ND	0.23	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
4,4'-DDD [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
4,4'-DDE [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
4,4'-DDT [2]	0.052	0.046	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Dieldrin [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Endosulfan I [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Endosulfan II [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Endosulfan sulfate [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Endrin [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Endrin ketone [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Heptachlor [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Heptachlor epoxide [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Hexachlorobenzene [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG
Methoxychlor [1]	ND	0.57	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 22:43	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		9/8/11 22:43
Decachlorobiphenyl [2]	79.1	30-150		9/8/11 22:43
Tetrachloro-m-xylene [1]	78.8	30-150		9/8/11 22:43
Tetrachloro-m-xylene [2]	76.4	30-150		9/8/11 22:43

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB
Aroclor-1254 [1]	0.39	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	72.7	30-150		9/1/11 19:16
Decachlorobiphenyl [2]	76.4	30-150		9/1/11 19:16
Tetrachloro-m-xylene [1]	94.2	30-150		9/1/11 19:16
Tetrachloro-m-xylene [2]	95.2	30-150		9/1/11 19:16

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	440	94	mg/Kg dry	5		SW-846 8100 Modified	9/1/11	9/7/11 1:08	AP

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	75.2	40-140				9/7/11 1:08	

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	6.8	2.7	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:03	OP
Barium	830	2.7	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:03	OP
Cadmium	5.6	0.27	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:03	OP
Chromium	41	0.55	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:03	OP
Lead	2100	0.82	mg/Kg dry	1	M-10	SW-846 6010C	9/1/11	9/2/11 16:03	OP
Mercury	0.62	0.057	mg/Kg dry	2		SW-846 7471B	9/1/11	9/1/11 15:37	CWB
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:03	OP
Silver	0.90	0.55	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:03	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	9/1/11	9/1/11 19:05	DEF
Oxidation/Reduction Potential	51		mV	1		SM2580 A	9/1/11	9/1/11 11:45	LL
pH @20.2°C	7.2		pH Units	1		SW-846 9045C	9/1/11	9/1/11 9:30	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	9/1/11	9/2/11 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	9/1/11	9/1/11 20:36	DEF
Specific conductance	12	2.0	µmhos/cm	1		SM18-20 2510B	9/6/11	9/6/11 11:30	LL
% Solids	87.3		% Wt	1		SM 2540G	9/1/11	9/2/11 7:44	EAH

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(1)

Sample ID: 11H1248-02 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4-DB	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-TP (Silvex)	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-T	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dalapon	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dicamba	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dichloroprop	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dinoseb	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	92	30-150				9/3/11 0:00	

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	3.5	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Benzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Bromobenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Bromochloromethane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Bromodichloromethane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Bromoform	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Bromomethane	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
2-Butanone (MEK)	ND	1.4	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
n-Butylbenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
sec-Butylbenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
tert-Butylbenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Carbon Disulfide	ND	0.71	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Carbon Tetrachloride	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Chlorobenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Chlorodibromomethane	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Chloroethane	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Chloroform	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Chloromethane	ND	0.14	mg/Kg dry	1	V-05	SW-846 8260C	9/1/11	9/3/11 1:46	TJR
2-Chlorotoluene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
4-Chlorotoluene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.35	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2-Dibromoethane (EDB)	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Dibromomethane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2-Dichlorobenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,3-Dichlorobenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,4-Dichlorobenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Dichlorodifluoromethane (Freon 12)	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,1-Dichloroethane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2-Dichloroethane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,1-Dichloroethylene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
cis-1,2-Dichloroethylene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
trans-1,2-Dichloroethylene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2-Dichloropropane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,3-Dichloropropane	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
2,2-Dichloropropane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,1-Dichloropropene	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
cis-1,3-Dichloropropene	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
trans-1,3-Dichloropropene	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Diethyl Ether	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Diisopropyl Ether (DIPE)	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,4-Dioxane	ND	3.5	mg/Kg dry	1	V-16	SW-846 8260C	9/1/11	9/3/11 1:46	TJR

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Hexachlorobutadiene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
2-Hexanone (MBK)	ND	0.71	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Isopropylbenzene (Cumene)	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
p-Isopropyltoluene (p-Cymene)	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Methyl tert-Butyl Ether (MTBE)	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Methylene Chloride	ND	0.35	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 1:46	TJR
4-Methyl-2-pentanone (MIBK)	ND	0.71	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Naphthalene	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
n-Propylbenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Styrene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,1,1,2-Tetrachloroethane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,1,2,2-Tetrachloroethane	ND	0.035	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Tetrachloroethylene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Tetrahydrofuran	ND	0.71	mg/Kg dry	1	R-05, RL-07	SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Toluene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2,3-Trichlorobenzene	ND	0.35	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2,4-Trichlorobenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,1,1-Trichloroethane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,1,2-Trichloroethane	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Trichloroethylene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Trichlorofluoromethane (Freon 11)	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2,3-Trichloropropane	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,2,4-Trimethylbenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
1,3,5-Trimethylbenzene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
Vinyl Chloride	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
m+p Xylene	ND	0.14	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR
o-Xylene	ND	0.071	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 1:46	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	103	70-130		9/3/11 1:46
Toluene-d8	100	70-130		9/3/11 1:46
4-Bromofluorobenzene	96.4	70-130		9/3/11 1:46

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Acenaphthylene	ND	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Acetophenone	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Aniline	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Anthracene	ND	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Benzo(a)anthracene	3.2	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Benzo(a)pyrene	2.9	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Benzo(b)fluoranthene	4.4	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Benzo(g,h,i)perylene	2.1	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Benzo(k)fluoranthene	1.7	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Bis(2-chloroethoxy)methane	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Bis(2-chloroethyl)ether	ND	1.6	mg/Kg dry	2	V-20	SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Bis(2-chloroisopropyl)ether	ND	1.6	mg/Kg dry	2	V-20	SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	1.6	mg/Kg dry	2	V-20	SW-846 8270D	9/1/11	9/6/11 12:13	BGL
4-Bromophenylphenylether	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Butylbenzylphthalate	ND	3.0	mg/Kg dry	2	V-20	SW-846 8270D	9/1/11	9/6/11 12:13	BGL
4-Chloroaniline	ND	3.0	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2-Chloronaphthalene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2-Chlorophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Chrysene	3.7	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Dibenz(a,h)anthracene	ND	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Dibenzofuran	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Di-n-butylphthalate	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
1,2-Dichlorobenzene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
1,3-Dichlorobenzene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
1,4-Dichlorobenzene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
3,3-Dichlorobenzidine	ND	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2,4-Dichlorophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Diethylphthalate	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2,4-Dimethylphenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Dimethylphthalate	ND	3.0	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2,4-Dinitrophenol	ND	3.0	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2,4-Dinitrotoluene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2,6-Dinitrotoluene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Di-n-octylphthalate	ND	3.0	mg/Kg dry	2	V-20	SW-846 8270D	9/1/11	9/6/11 12:13	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Fluoranthene	4.6	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Fluorene	ND	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Hexachlorobenzene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Hexachlorobutadiene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Hexachloroethane	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Indeno(1,2,3-cd)pyrene	2.9	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Isophorone	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2-Methylphenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
3/4-Methylphenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Naphthalene	ND	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Nitrobenzene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2-Nitrophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
4-Nitrophenol	ND	3.0	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Pentachlorophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Phenanthrene	1.6	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Phenol	ND	1.6	mg/Kg dry	2	V-20	SW-846 8270D	9/1/11	9/6/11 12:13	BGL
Pyrene	6.4	0.78	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
1,2,4-Trichlorobenzene	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2,4,5-Trichlorophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL
2,4,6-Trichlorophenol	ND	1.6	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 12:13	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	54.9	30-130		9/6/11 12:13
Phenol-d6	61.5	30-130		9/6/11 12:13
Nitrobenzene-d5	55.0	30-130		9/6/11 12:13
2-Fluorobiphenyl	59.1	30-130		9/6/11 12:13
2,4,6-Tribromophenol	51.4	30-130		9/6/11 12:13
Terphenyl-d14	72.1	30-130		9/6/11 12:13

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
alpha-BHC [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
beta-BHC [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
delta-BHC [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
gamma-BHC (Lindane) [1]	ND	0.023	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Chlordane [1]	ND	0.23	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
4,4'-DDD [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
4,4'-DDE [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
4,4'-DDT [2]	0.16	0.046	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Dieldrin [1]	ND	0.046	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Endosulfan I [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Endosulfan II [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Endosulfan sulfate [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Endrin [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Endrin ketone [1]	ND	0.092	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Heptachlor [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Heptachlor epoxide [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Hexachlorobenzene [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG
Methoxychlor [1]	ND	0.58	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	146	30-150		9/8/11 23:01
Decachlorobiphenyl [2]	72.0	30-150		9/8/11 23:01
Tetrachloro-m-xylene [1]	72.9	30-150		9/8/11 23:01
Tetrachloro-m-xylene [2]	68.8	30-150		9/8/11 23:01

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB
Aroclor-1254 [1]	1.4	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	70.4	30-150		9/1/11 19:30
Decachlorobiphenyl [2]	73.7	30-150		9/1/11 19:30
Tetrachloro-m-xylene [1]	86.6	30-150		9/1/11 19:30
Tetrachloro-m-xylene [2]	88.9	30-150		9/1/11 19:30

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	560	97	mg/Kg dry	5		SW-846 8100 Modified	9/1/11	9/7/11 1:08	AP

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	50.3	40-140				9/7/11 1:08	

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	5.4	2.8	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:07	OP
Barium	1000	2.8	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:07	OP
Cadmium	8.4	0.28	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:07	OP
Chromium	62	0.55	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:07	OP
Lead	2700	0.83	mg/Kg dry	1	M-10	SW-846 6010C	9/1/11	9/2/11 16:07	OP
Mercury	1.4	0.29	mg/Kg dry	10		SW-846 7471B	9/1/11	9/1/11 15:39	CWB
Selenium	ND	5.5	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:07	OP
Silver	1.8	0.55	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:07	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	9/1/11	9/1/11 19:05	DEF
Oxidation/Reduction Potential	61		mV	1		SM2580 A	9/1/11	9/1/11 11:45	LL
pH @19.9°C	7.3		pH Units	1		SW-846 9045C	9/1/11	9/1/11 9:30	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	9/1/11	9/2/11 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	9/1/11	9/1/11 20:36	DEF
Specific conductance	20	2.0	µmhos/cm	1		SM18-20 2510B	9/6/11	9/6/11 11:30	LL
% Solids	85.8		% Wt	1		SM 2540G	9/1/11	9/2/11 7:44	EAH

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-C(2)

Sample ID: 11H1248-03 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4-DB	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-TP (Silvex)	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-T	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dalapon	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dicamba	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dichloroprop	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dinoseb	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	102	30-150				9/3/11 0:00	

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.8	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Benzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Bromobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Bromochloromethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Bromodichloromethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Bromoform	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Bromomethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
2-Butanone (MEK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
n-Butylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
sec-Butylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
tert-Butylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Carbon Disulfide	ND	0.55	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Carbon Tetrachloride	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Chlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Chlorodibromomethane	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Chloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Chloroform	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Chloromethane	ND	0.11	mg/Kg dry	1	V-05	SW-846 8260C	9/1/11	9/3/11 2:12	TJR
2-Chlorotoluene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
4-Chlorotoluene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2-Dibromoethane (EDB)	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Dibromomethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2-Dichlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,3-Dichlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,4-Dichlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Dichlorodifluoromethane (Freon 12)	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,1-Dichloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2-Dichloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,1-Dichloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
cis-1,2-Dichloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
trans-1,2-Dichloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2-Dichloropropane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,3-Dichloropropane	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
2,2-Dichloropropane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,1-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
cis-1,3-Dichloropropene	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
trans-1,3-Dichloropropene	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Diethyl Ether	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Diisopropyl Ether (DIPE)	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,4-Dioxane	ND	2.8	mg/Kg dry	1	V-16	SW-846 8260C	9/1/11	9/3/11 2:12	TJR

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Hexachlorobutadiene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
2-Hexanone (MBK)	ND	0.55	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Isopropylbenzene (Cumene)	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
p-Isopropyltoluene (p-Cymene)	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Methyl tert-Butyl Ether (MTBE)	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Methylene Chloride	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 2:12	TJR
4-Methyl-2-pentanone (MIBK)	ND	0.55	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Naphthalene	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
n-Propylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Styrene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,1,1,2-Tetrachloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,1,2,2-Tetrachloroethane	ND	0.028	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Tetrachloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Tetrahydrofuran	ND	0.55	mg/Kg dry	1	R-05, RL-07	SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Toluene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2,3-Trichlorobenzene	ND	0.28	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2,4-Trichlorobenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,1,1-Trichloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,1,2-Trichloroethane	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Trichloroethylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Trichlorofluoromethane (Freon 11)	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2,3-Trichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,2,4-Trimethylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
1,3,5-Trimethylbenzene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
Vinyl Chloride	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
m+p Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR
o-Xylene	ND	0.055	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:12	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		9/3/11 2:12
Toluene-d8	99.5	70-130		9/3/11 2:12
4-Bromofluorobenzene	95.3	70-130		9/3/11 2:12

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Acenaphthylene	1.0	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Acetophenone	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Aniline	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Anthracene	1.2	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Benzo(a)anthracene	5.0	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Benzo(a)pyrene	4.4	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Benzo(b)fluoranthene	8.2	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Benzo(g,h,i)perylene	0.42	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Benzo(k)fluoranthene	2.8	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Bis(2-chloroethoxy)methane	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Bis(2-chloroethyl)ether	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Bis(2-chloroisopropyl)ether	ND	0.76	mg/Kg dry	1	V-05	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
4-Bromophenylphenylether	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Butylbenzylphthalate	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
4-Chloroaniline	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2-Chloronaphthalene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2-Chlorophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Chrysene	5.9	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Dibenz(a,h)anthracene	0.57	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Dibenzofuran	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Di-n-butylphthalate	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
1,2-Dichlorobenzene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
1,3-Dichlorobenzene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
1,4-Dichlorobenzene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
3,3-Dichlorobenzidine	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2,4-Dichlorophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Diethylphthalate	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2,4-Dimethylphenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Dimethylphthalate	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2,4-Dinitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2,4-Dinitrotoluene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2,6-Dinitrotoluene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Di-n-octylphthalate	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.76	mg/Kg dry	1	V-05	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Fluoranthene	6.4	0.76	mg/Kg dry	2		SW-846 8270D	9/1/11	9/6/11 13:52	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Hexachlorobenzene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Hexachlorobutadiene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Hexachloroethane	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1	V-20	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Isophorone	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	0.62	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2-Methylphenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
3/4-Methylphenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Naphthalene	0.77	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Nitrobenzene	ND	0.76	mg/Kg dry	1	V-05	SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2-Nitrophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
4-Nitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Pentachlorophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Phenanthrene	3.7	0.38	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Phenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
Pyrene	8.5	0.76	mg/Kg dry	2	V-06	SW-846 8270D	9/1/11	9/6/11 13:52	BGL
1,2,4-Trichlorobenzene	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2,4,5-Trichlorophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL
2,4,6-Trichlorophenol	ND	0.76	mg/Kg dry	1		SW-846 8270D	9/1/11	9/2/11 16:11	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	106	30-130		9/2/11 16:11
Phenol-d6	105	30-130		9/2/11 16:11
Nitrobenzene-d5	71.4	30-130		9/2/11 16:11
2-Fluorobiphenyl	109	30-130		9/2/11 16:11
2,4,6-Tribromophenol	76.2	30-130		9/2/11 16:11
Terphenyl-d14	109	30-130		9/2/11 16:11

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.055	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
alpha-BHC [1]	ND	0.055	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
beta-BHC [1]	ND	0.055	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
delta-BHC [1]	ND	0.055	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
gamma-BHC (Lindane) [1]	ND	0.022	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Chlordane [1]	ND	0.22	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
4,4'-DDD [1]	ND	0.044	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
4,4'-DDE [1]	ND	0.044	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
4,4'-DDT [1]	0.098	0.044	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Dieldrin [1]	ND	0.044	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Endosulfan I [1]	ND	0.055	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Endosulfan II [1]	ND	0.089	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Endosulfan sulfate [1]	ND	0.089	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Endrin [1]	ND	0.089	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Endrin ketone [1]	ND	0.089	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Heptachlor [1]	ND	0.055	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Heptachlor epoxide [1]	ND	0.055	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Hexachlorobenzene [1]	ND	0.055	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG
Methoxychlor [1]	ND	0.55	mg/Kg dry	10		SW-846 8081B	8/31/11	9/9/11 0:14	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	118	30-150		9/9/11 0:14
Decachlorobiphenyl [2]	70.6	30-150		9/9/11 0:14
Tetrachloro-m-xylene [1]	65.9	30-150		9/9/11 0:14
Tetrachloro-m-xylene [2]	62.2	30-150		9/9/11 0:14

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB
Aroclor-1254 [1]	0.60	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	64.2	30-150		9/1/11 19:44
Decachlorobiphenyl [2]	67.1	30-150		9/1/11 19:44
Tetrachloro-m-xylene [1]	71.3	30-150		9/1/11 19:44
Tetrachloro-m-xylene [2]	70.7	30-150		9/1/11 19:44

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	690	190	mg/Kg dry	10		SW-846 8100 Modified	9/1/11	9/7/11 0:32	AP

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	66.2	40-140				9/7/11 0:32	

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	4.2	2.7	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:11	OP
Barium	1600	2.7	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:11	OP
Cadmium	14	0.27	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:11	OP
Chromium	160	0.54	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:11	OP
Lead	4100	0.81	mg/Kg dry	1	M-10	SW-846 6010C	9/1/11	9/2/11 16:11	OP
Mercury	1.9	0.28	mg/Kg dry	10		SW-846 7471B	9/1/11	9/1/11 15:40	CWB
Selenium	ND	5.4	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:11	OP
Silver	5.1	0.54	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:11	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	9/1/11	9/1/11 19:05	DEF
Oxidation/Reduction Potential	110		mV	1		SM2580 A	9/1/11	9/1/11 11:45	LL
pH @20.1°C	7.2		pH Units	1		SW-846 9045C	9/1/11	9/1/11 9:30	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	9/1/11	9/2/11 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	9/1/11	9/1/11 20:36	DEF
Specific conductance	19	2.0	µmhos/cm	1		SM18-20 2510B	9/6/11	9/6/11 11:30	LL
% Solids	89.3		% Wt	1		SM 2540G	9/1/11	9/2/11 7:44	EAH

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(1)

Sample ID: 11H1248-04 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4-DB	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-TP (Silvex)	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-T	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dalapon	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dicamba	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dichloroprop	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dinoseb	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	81	30-150				9/3/11 0:00	

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.5	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Benzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Bromobenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Bromochloromethane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Bromodichloromethane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Bromoform	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Bromomethane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
2-Butanone (MEK)	ND	1.0	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
n-Butylbenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
sec-Butylbenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
tert-Butylbenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Carbon Disulfide	ND	0.51	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Carbon Tetrachloride	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Chlorobenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Chlorodibromomethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Chloroethane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Chloroform	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Chloromethane	ND	0.10	mg/Kg dry	1	V-05	SW-846 8260C	9/1/11	9/3/11 2:38	TJR
2-Chlorotoluene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
4-Chlorotoluene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Dibromomethane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2-Dichlorobenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,3-Dichlorobenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,4-Dichlorobenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,1-Dichloroethane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2-Dichloroethane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,1-Dichloroethylene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
cis-1,2-Dichloroethylene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
trans-1,2-Dichloroethylene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2-Dichloropropane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,3-Dichloropropane	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
2,2-Dichloropropane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,1-Dichloropropene	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
cis-1,3-Dichloropropene	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
trans-1,3-Dichloropropene	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Diethyl Ether	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,4-Dioxane	ND	2.5	mg/Kg dry	1	V-16	SW-846 8260C	9/1/11	9/3/11 2:38	TJR

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Hexachlorobutadiene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
2-Hexanone (MBK)	ND	0.51	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Isopropylbenzene (Cumene)	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
p-Isopropyltoluene (p-Cymene)	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Methyl tert-Butyl Ether (MTBE)	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Methylene Chloride	ND	0.25	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 2:38	TJR
4-Methyl-2-pentanone (MIBK)	ND	0.51	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Naphthalene	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
n-Propylbenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Styrene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,1,1,2-Tetrachloroethane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Tetrachloroethylene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Tetrahydrofuran	ND	0.51	mg/Kg dry	1	R-05, RL-07	SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Toluene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2,4-Trichlorobenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,1,1-Trichloroethane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,1,2-Trichloroethane	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Trichloroethylene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2,3-Trichloropropane	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,2,4-Trimethylbenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
1,3,5-Trimethylbenzene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
Vinyl Chloride	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
m+p Xylene	ND	0.10	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR
o-Xylene	ND	0.051	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 2:38	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	104	70-130		9/3/11 2:38
Toluene-d8	100	70-130		9/3/11 2:38
4-Bromofluorobenzene	94.9	70-130		9/3/11 2:38

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Acenaphthylene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Acetophenone	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Aniline	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Anthracene	1.7	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Benzo(a)anthracene	6.6	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Benzo(a)pyrene	5.7	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Benzo(b)fluoranthene	8.3	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Benzo(g,h,i)perylene	4.5	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Benzo(k)fluoranthene	3.2	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Bis(2-chloroethoxy)methane	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Bis(2-chloroethyl)ether	ND	3.1	mg/Kg dry	4	V-20	SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Bis(2-chloroisopropyl)ether	ND	3.1	mg/Kg dry	4	V-20	SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	3.1	mg/Kg dry	4	V-20	SW-846 8270D	9/1/11	9/6/11 12:48	BGL
4-Bromophenylphenylether	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Butylbenzylphthalate	ND	6.1	mg/Kg dry	4	V-20	SW-846 8270D	9/1/11	9/6/11 12:48	BGL
4-Chloroaniline	ND	6.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2-Chloronaphthalene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2-Chlorophenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Chrysene	7.3	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Dibenz(a,h)anthracene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Dibenzofuran	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Di-n-butylphthalate	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
1,2-Dichlorobenzene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
1,3-Dichlorobenzene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
1,4-Dichlorobenzene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
3,3-Dichlorobenzidine	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2,4-Dichlorophenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Diethylphthalate	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2,4-Dimethylphenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Dimethylphthalate	ND	6.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2,4-Dinitrophenol	ND	6.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2,4-Dinitrotoluene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2,6-Dinitrotoluene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Di-n-octylphthalate	ND	6.1	mg/Kg dry	4	V-20	SW-846 8270D	9/1/11	9/6/11 12:48	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Fluoranthene	12	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Fluorene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Hexachlorobenzene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Hexachlorobutadiene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Hexachloroethane	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Indeno(1,2,3-cd)pyrene	5.9	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Isophorone	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2-Methylphenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
3/4-Methylphenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Naphthalene	ND	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Nitrobenzene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2-Nitrophenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
4-Nitrophenol	ND	6.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Pentachlorophenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Phenanthrene	8.0	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Phenol	ND	3.1	mg/Kg dry	4	V-20	SW-846 8270D	9/1/11	9/6/11 12:48	BGL
Pyrene	15	1.6	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
1,2,4-Trichlorobenzene	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2,4,5-Trichlorophenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL
2,4,6-Trichlorophenol	ND	3.1	mg/Kg dry	4		SW-846 8270D	9/1/11	9/6/11 12:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	56.2	30-130		9/6/11 12:48
Phenol-d6	60.2	30-130		9/6/11 12:48
Nitrobenzene-d5	60.7	30-130		9/6/11 12:48
2-Fluorobiphenyl	61.7	30-130		9/6/11 12:48
2,4,6-Tribromophenol	51.7	30-130		9/6/11 12:48
Terphenyl-d14	84.7	30-130		9/6/11 12:48

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
alpha-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
beta-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
delta-BHC [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
gamma-BHC (Lindane) [1]	ND	0.023	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Chlordane [1]	ND	0.23	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
4,4'-DDD [1]	ND	0.045	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
4,4'-DDE [1]	ND	0.045	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
4,4'-DDT [1]	0.43	0.045	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Dieldrin [1]	ND	0.045	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Endosulfan I [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Endosulfan II [1]	ND	0.090	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Endosulfan sulfate [1]	ND	0.090	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Endrin [1]	ND	0.090	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Endrin ketone [1]	ND	0.090	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Heptachlor [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Heptachlor epoxide [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Hexachlorobenzene [1]	ND	0.057	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG
Methoxychlor [1]	ND	0.57	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:20	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	118	30-150		9/8/11 23:20
Decachlorobiphenyl [2]	52.0	30-150		9/8/11 23:20
Tetrachloro-m-xylene [1]	51.6	30-150		9/8/11 23:20
Tetrachloro-m-xylene [2]	47.6	30-150		9/8/11 23:20

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB
Aroclor-1254 [1]	0.24	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	1		SW-846 8082A	8/31/11	9/1/11 19:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	57.5	30-150		9/1/11 19:58
Decachlorobiphenyl [2]	60.2	30-150		9/1/11 19:58
Tetrachloro-m-xylene [1]	67.1	30-150		9/1/11 19:58
Tetrachloro-m-xylene [2]	68.6	30-150		9/1/11 19:58

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	750	190	mg/Kg dry	10		SW-846 8100 Modified	9/1/11	9/7/11 0:50	AP

Surrogates	% Recovery	Recovery Limits	Flag				
o-Terphenyl	68.6	40-140				9/7/11 0:50	

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	8.9	2.8	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:29	OP
Barium	910	2.8	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:29	OP
Cadmium	8.3	0.28	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:29	OP
Chromium	60	0.57	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:29	OP
Lead	2900	0.85	mg/Kg dry	1	M-10	SW-846 6010C	9/1/11	9/2/11 16:29	OP
Mercury	1.5	0.29	mg/Kg dry	10		SW-846 7471B	9/1/11	9/1/11 15:42	CWB
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:29	OP
Silver	1.2	0.57	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:29	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	9/1/11	9/1/11 19:05	DEF
Oxidation/Reduction Potential	90		mV	1		SM2580 A	9/1/11	9/1/11 11:45	LL
pH @19.8°C	7.4		pH Units	1		SW-846 9045C	9/1/11	9/1/11 9:30	LL
Reactive Cyanide	ND	4.0	mg/Kg	1		SW-846 9014	9/1/11	9/2/11 11:30	LL
Reactive Sulfide	ND	20	mg/Kg	1		SW-846 9030A	9/1/11	9/1/11 20:36	DEF
Specific conductance	23	2.0	µmhos/cm	1		SM18-20 2510B	9/6/11	9/6/11 11:30	LL
% Solids	86.7		% Wt	1		SM 2540G	9/1/11	9/2/11 7:44	EAH

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(2)

Sample ID: 11H1248-05 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4-DB	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-TP (Silvex)	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-T	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dalapon	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dicamba	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dichloroprop	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dinoseb	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	103	30-150				9/3/11 0:00	

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	4.3	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
tert-Amyl Methyl Ether (TAME)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Benzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Bromobenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Bromochloromethane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Bromodichloromethane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Bromoform	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Bromomethane	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
2-Butanone (MEK)	ND	1.7	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
n-Butylbenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
sec-Butylbenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
tert-Butylbenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
tert-Butyl Ethyl Ether (TBEE)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Carbon Disulfide	ND	0.86	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Carbon Tetrachloride	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Chlorobenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Chlorodibromomethane	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Chloroethane	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Chloroform	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Chloromethane	ND	0.17	mg/Kg dry	1	V-05	SW-846 8260C	9/1/11	9/3/11 3:04	TJR
2-Chlorotoluene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
4-Chlorotoluene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.43	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2-Dibromoethane (EDB)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Dibromomethane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2-Dichlorobenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,3-Dichlorobenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,4-Dichlorobenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Dichlorodifluoromethane (Freon 12)	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,1-Dichloroethane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2-Dichloroethane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,1-Dichloroethylene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
cis-1,2-Dichloroethylene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
trans-1,2-Dichloroethylene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2-Dichloropropane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,3-Dichloropropane	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
2,2-Dichloropropane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,1-Dichloropropene	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
cis-1,3-Dichloropropene	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
trans-1,3-Dichloropropene	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Diethyl Ether	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Diisopropyl Ether (DIPE)	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,4-Dioxane	ND	4.3	mg/Kg dry	1	V-16	SW-846 8260C	9/1/11	9/3/11 3:04	TJR

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Ethylbenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Hexachlorobutadiene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
2-Hexanone (MBK)	ND	0.86	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Isopropylbenzene (Cumene)	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
p-Isopropyltoluene (p-Cymene)	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Methyl tert-Butyl Ether (MTBE)	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Methylene Chloride	ND	0.43	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 3:04	TJR
4-Methyl-2-pentanone (MIBK)	ND	0.86	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
n-Propylbenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Styrene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,1,1,2-Tetrachloroethane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,1,2,2-Tetrachloroethane	ND	0.043	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Tetrachloroethylene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Tetrahydrofuran	ND	0.86	mg/Kg dry	1	R-05, RL-07	SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Toluene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2,3-Trichlorobenzene	ND	0.43	mg/Kg dry	1	RL-07	SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2,4-Trichlorobenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,1,1-Trichloroethane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,1,2-Trichloroethane	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Trichloroethylene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Trichlorofluoromethane (Freon 11)	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2,3-Trichloropropane	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,2,4-Trimethylbenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
1,3,5-Trimethylbenzene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
Vinyl Chloride	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
m+p Xylene	ND	0.17	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR
o-Xylene	ND	0.086	mg/Kg dry	1		SW-846 8260C	9/1/11	9/3/11 3:04	TJR

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	105	70-130		9/3/11 3:04
Toluene-d8	100	70-130		9/3/11 3:04
4-Bromofluorobenzene	95.8	70-130		9/3/11 3:04

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Acenaphthylene	0.64	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Acetophenone	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Aniline	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Anthracene	0.83	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Benzo(a)anthracene	3.7	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Benzo(a)pyrene	3.4	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Benzo(b)fluoranthene	5.0	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Benzo(g,h,i)perylene	2.6	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Benzo(k)fluoranthene	1.9	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Bis(2-chloroethoxy)methane	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Bis(2-chloroethyl)ether	ND	0.78	mg/Kg dry	1	V-20	SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Bis(2-chloroisopropyl)ether	ND	0.78	mg/Kg dry	1	V-20	SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.78	mg/Kg dry	1	V-20	SW-846 8270D	9/1/11	9/6/11 13:20	BGL
4-Bromophenylphenylether	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Butylbenzylphthalate	ND	1.5	mg/Kg dry	1	RL-08, V-20	SW-846 8270D	9/1/11	9/6/11 13:20	BGL
4-Chloroaniline	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2-Chloronaphthalene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2-Chlorophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Chrysene	4.5	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Dibenz(a,h)anthracene	0.80	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Dibenzofuran	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Di-n-butylphthalate	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
1,2-Dichlorobenzene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
1,3-Dichlorobenzene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
1,4-Dichlorobenzene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
3,3-Dichlorobenzidine	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2,4-Dichlorophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Diethylphthalate	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2,4-Dimethylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Dimethylphthalate	ND	1.5	mg/Kg dry	1	RL-08	SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2,4-Dinitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2,4-Dinitrotoluene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2,6-Dinitrotoluene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Di-n-octylphthalate	ND	1.5	mg/Kg dry	1	RL-08, V-20	SW-846 8270D	9/1/11	9/6/11 13:20	BGL
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Fluoranthene	5.9	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Fluorene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Hexachlorobenzene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Hexachlorobutadiene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Hexachloroethane	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Indeno(1,2,3-cd)pyrene	3.1	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Isophorone	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylnaphthalene	0.71	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2-Methylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
3/4-Methylphenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Naphthalene	0.82	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Nitrobenzene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2-Nitrophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
4-Nitrophenol	ND	1.5	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Pentachlorophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Phenanthrene	3.9	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Phenol	ND	0.78	mg/Kg dry	1	V-20	SW-846 8270D	9/1/11	9/6/11 13:20	BGL
Pyrene	7.1	0.39	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
1,2,4-Trichlorobenzene	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2,4,5-Trichlorophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL
2,4,6-Trichlorophenol	ND	0.78	mg/Kg dry	1		SW-846 8270D	9/1/11	9/6/11 13:20	BGL

Surrogates	% Recovery	Recovery Limits	Flag	
2-Fluorophenol	62.4	30-130		9/6/11 13:20
Phenol-d6	69.7	30-130		9/6/11 13:20
Nitrobenzene-d5	72.9	30-130		9/6/11 13:20
2-Fluorobiphenyl	69.8	30-130		9/6/11 13:20
2,4,6-Tribromophenol	35.5	30-130		9/6/11 13:20
Terphenyl-d14	78.4	30-130		9/6/11 13:20

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Sample Flags: RL-08

Organochloride Pesticides by GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aldrin [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
alpha-BHC [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
beta-BHC [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
delta-BHC [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
gamma-BHC (Lindane) [1]	ND	0.023	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Chlordane [1]	ND	0.23	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
4,4'-DDD [1]	ND	0.047	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
4,4'-DDE [1]	ND	0.047	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
4,4'-DDT [1]	ND	0.047	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Dieldrin [1]	ND	0.047	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Endosulfan I [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Endosulfan II [1]	ND	0.093	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Endosulfan sulfate [1]	ND	0.093	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Endrin [1]	ND	0.093	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Endrin ketone [1]	ND	0.093	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Heptachlor [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Heptachlor epoxide [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Hexachlorobenzene [1]	ND	0.058	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG
Methoxychlor [1]	ND	0.58	mg/Kg dry	10		SW-846 8081B	8/31/11	9/8/11 23:38	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		9/8/11 23:38
Decachlorobiphenyl [2]	63.7	30-150		9/8/11 23:38
Tetrachloro-m-xylene [1]	65.7	30-150		9/8/11 23:38
Tetrachloro-m-xylene [2]	61.5	30-150		9/8/11 23:38

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB
Aroclor-1254 [1]	14	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB
Aroclor-1260 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	10		SW-846 8082A	8/31/11	9/6/11 11:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		9/6/11 11:12
Decachlorobiphenyl [2]	115	30-150		9/6/11 11:12
Tetrachloro-m-xylene [1]	95.0	30-150		9/6/11 11:12
Tetrachloro-m-xylene [2]	112	30-150		9/6/11 11:12

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
TPH C9-C36 Hydrocarbons as Diesel	700	96	mg/Kg dry	5		SW-846 8100 Modified	9/1/11	9/7/11 0:14	AP

Surrogates	% Recovery	Recovery Limits	Flag	
o-Terphenyl	57.6	40-140		9/7/11 0:14

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	9.6	2.8	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:33	OP
Barium	1500	2.8	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:33	OP
Cadmium	9.5	0.28	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:33	OP
Chromium	75	0.56	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:33	OP
Lead	4400	0.84	mg/Kg dry	1	M-10	SW-846 6010C	9/1/11	9/2/11 16:33	OP
Mercury	1.2	0.14	mg/Kg dry	5		SW-846 7471B	9/1/11	9/1/11 15:44	CWB
Selenium	ND	5.6	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:33	OP
Silver	3.3	0.56	mg/Kg dry	1		SW-846 6010C	9/1/11	9/2/11 16:33	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

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

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Flashpoint	> 212 °F		°F	1		SW-846 1010	9/1/11	9/1/11 19:05	DEF
Oxidation/Reduction Potential	95		mV	1		SM2580 A	9/1/11	9/1/11 11:45	LL
pH @19.6°C	7.5		pH Units	1		SW-846 9045C	9/1/11	9/1/11 9:30	LL
Reactive Cyanide	ND	3.9	mg/Kg	1		SW-846 9014	9/1/11	9/2/11 11:30	LL
Reactive Sulfide	ND	19	mg/Kg	1		SW-846 9030A	9/1/11	9/1/11 20:36	DEF
Specific conductance	26	2.0	µmhos/cm	1		SM18-20 2510B	9/6/11	9/6/11 11:30	LL
% Solids	86.0		% Wt	1		SM 2540G	9/1/11	9/2/11 7:44	EAH

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11H1248

Date Received: 8/31/2011

Field Sample #: RY5-520-B(3)

Sample ID: 11H1248-06 | Start Date/Time: 8/31/2011 11:00:00AM

Sample Matrix: Soil | Stop Date/Time: 8/31/2011 11:45:00AM

Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
2,4-D	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4-DB	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-TP (Silvex)	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
2,4,5-T	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dalapon	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dicamba	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dichloroprop	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET
Dinoseb	ND	60	µg/Kg	1		SW-846 8151	9/2/11	9/3/11 0:00	NET

Surrogates	% Recovery	Recovery Limits	Flag				
DCMA	82	30-150				9/3/11 0:00	

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11H1248-02 [RY5-520-C(1)]	B036666	09/01/11
11H1248-03 [RY5-520-C(2)]	B036666	09/01/11
11H1248-04 [RY5-520-B(1)]	B036666	09/01/11
11H1248-05 [RY5-520-B(2)]	B036666	09/01/11
11H1248-06 [RY5-520-B(3)]	B036666	09/01/11

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
11H1248-01 [RY5-520-D]	B036769	09/06/11

SM18-20 2510B

Lab Number [Field ID]	Batch	Initial [g]	Date
11H1248-01 [RY5-520-D]	B036801	1.00	09/06/11
11H1248-02 [RY5-520-C(1)]	B036801	1.00	09/06/11
11H1248-03 [RY5-520-C(2)]	B036801	1.00	09/06/11
11H1248-04 [RY5-520-B(1)]	B036801	1.00	09/06/11
11H1248-05 [RY5-520-B(2)]	B036801	1.00	09/06/11
11H1248-06 [RY5-520-B(3)]	B036801	1.00	09/06/11

SM2580 A

Lab Number [Field ID]	Batch	Initial [g]	Date
11H1248-01 [RY5-520-D]	B036624	20.0	09/01/11
11H1248-02 [RY5-520-C(1)]	B036624	20.0	09/01/11
11H1248-03 [RY5-520-C(2)]	B036624	20.0	09/01/11
11H1248-04 [RY5-520-B(1)]	B036624	20.0	09/01/11
11H1248-05 [RY5-520-B(2)]	B036624	20.0	09/01/11
11H1248-06 [RY5-520-B(3)]	B036624	20.0	09/01/11

SW-846 1010

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036665	50.0	50.0	09/01/11
11H1248-02 [RY5-520-C(1)]	B036665	50.0	50.0	09/01/11
11H1248-03 [RY5-520-C(2)]	B036665	50.0	50.0	09/01/11
11H1248-04 [RY5-520-B(1)]	B036665	50.0	50.0	09/01/11
11H1248-05 [RY5-520-B(2)]	B036665	50.0	50.0	09/01/11
11H1248-06 [RY5-520-B(3)]	B036665	50.0	50.0	09/01/11

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036600	1.04	50.0	09/01/11
11H1248-02 [RY5-520-C(1)]	B036600	1.05	50.0	09/01/11
11H1248-03 [RY5-520-C(2)]	B036600	1.06	50.0	09/01/11
11H1248-04 [RY5-520-B(1)]	B036600	1.04	50.0	09/01/11
11H1248-05 [RY5-520-B(2)]	B036600	1.02	50.0	09/01/11

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Sample Extraction Data

Prep Method: SW-846 3050B-SW-846 6010C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-06 [RY5-520-B(3)]	B036600	1.04	50.0	09/01/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036590	0.590	50.0	09/01/11
11H1248-02 [RY5-520-C(1)]	B036590	0.601	50.0	09/01/11
11H1248-03 [RY5-520-C(2)]	B036590	0.609	50.0	09/01/11
11H1248-04 [RY5-520-B(1)]	B036590	0.603	50.0	09/01/11
11H1248-05 [RY5-520-B(2)]	B036590	0.603	50.0	09/01/11
11H1248-06 [RY5-520-B(3)]	B036590	0.612	50.0	09/01/11

Prep Method: SW-846 3546-SW-846 8081B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036474	10.2	10.0	08/31/11
11H1248-02 [RY5-520-C(1)]	B036474	10.0	10.0	08/31/11
11H1248-03 [RY5-520-C(2)]	B036474	10.1	10.0	08/31/11
11H1248-04 [RY5-520-B(1)]	B036474	10.1	10.0	08/31/11
11H1248-05 [RY5-520-B(2)]	B036474	10.2	10.0	08/31/11
11H1248-06 [RY5-520-B(3)]	B036474	10.0	10.0	08/31/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036473	10.2	50.0	08/31/11
11H1248-02 [RY5-520-C(1)]	B036473	10.0	50.0	08/31/11
11H1248-03 [RY5-520-C(2)]	B036473	10.1	50.0	08/31/11
11H1248-04 [RY5-520-B(1)]	B036473	10.1	50.0	08/31/11
11H1248-05 [RY5-520-B(2)]	B036473	10.2	50.0	08/31/11
11H1248-06 [RY5-520-B(3)]	B036473	10.0	50.0	08/31/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036577	30.2	2.00	09/01/11
11H1248-02 [RY5-520-C(1)]	B036577	30.3	2.00	09/01/11
11H1248-03 [RY5-520-C(2)]	B036577	30.1	2.00	09/01/11
11H1248-04 [RY5-520-B(1)]	B036577	30.1	2.00	09/01/11
11H1248-05 [RY5-520-B(2)]	B036577	30.0	2.00	09/01/11
11H1248-06 [RY5-520-B(3)]	B036577	30.2	2.00	09/01/11

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
11H1248-01 [RY5-520-D]	B036586	11.5	16.0	1	50	09/01/11
11H1248-02 [RY5-520-C(1)]	B036586	17.4	17.2	1	50	09/01/11
11H1248-03 [RY5-520-C(2)]	B036586	14.0	17.0	1	50	09/01/11
11H1248-04 [RY5-520-B(1)]	B036586	17.0	16.8	1	50	09/01/11

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
11H1248-05 [RY5-520-B(2)]	B036586	20.0	17.7	1	50	09/01/11
11H1248-06 [RY5-520-B(3)]	B036586	11.2	16.6	1	50	09/01/11

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036579	30.2	2.00	09/01/11
11H1248-02 [RY5-520-C(1)]	B036579	30.3	2.00	09/01/11
11H1248-03 [RY5-520-C(2)]	B036579	30.3	2.00	09/01/11
11H1248-04 [RY5-520-B(1)]	B036579	30.2	2.00	09/01/11
11H1248-05 [RY5-520-B(2)]	B036579	30.1	2.00	09/01/11
11H1248-06 [RY5-520-B(3)]	B036579	30.3	2.00	09/01/11

SW-846 9014

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036658	25.3	250	09/01/11
11H1248-02 [RY5-520-C(1)]	B036658	25.5	250	09/01/11
11H1248-03 [RY5-520-C(2)]	B036658	25.4	250	09/01/11
11H1248-04 [RY5-520-B(1)]	B036658	25.6	250	09/01/11
11H1248-05 [RY5-520-B(2)]	B036658	25.3	250	09/01/11
11H1248-06 [RY5-520-B(3)]	B036658	25.7	250	09/01/11

SW-846 9030A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
11H1248-01 [RY5-520-D]	B036661	25.3	250	09/01/11
11H1248-02 [RY5-520-C(1)]	B036661	25.5	250	09/01/11
11H1248-03 [RY5-520-C(2)]	B036661	25.4	250	09/01/11
11H1248-04 [RY5-520-B(1)]	B036661	25.6	250	09/01/11
11H1248-05 [RY5-520-B(2)]	B036661	25.3	250	09/01/11
11H1248-06 [RY5-520-B(3)]	B036661	25.7	250	09/01/11

SW-846 9045C

Lab Number [Field ID]	Batch	Initial [g]	Date
11H1248-01 [RY5-520-D]	B036638	20.0	09/01/11
11H1248-02 [RY5-520-C(1)]	B036638	20.0	09/01/11
11H1248-03 [RY5-520-C(2)]	B036638	20.0	09/01/11
11H1248-04 [RY5-520-B(1)]	B036638	20.0	09/01/11
11H1248-05 [RY5-520-B(2)]	B036638	20.0	09/01/11
11H1248-06 [RY5-520-B(3)]	B036638	20.0	09/01/11

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B036586 - SW-846 5035										
Blank (B036586-BLK1)				Prepared: 09/01/11 Analyzed: 09/03/11						
Acetone	ND	2.5	mg/Kg wet							
tert-Amyl Methyl Ether (TAME)	ND	0.025	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromochloromethane	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butyl Ethyl Ether (TBEE)	ND	0.025	mg/Kg wet							
Carbon Disulfide	ND	0.50	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							V-05
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Diethyl Ether	ND	0.10	mg/Kg wet							
Diisopropyl Ether (DIPE)	ND	0.025	mg/Kg wet							
1,4-Dioxane	ND	2.5	mg/Kg wet							V-16
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B036586 - SW-846 5035											
Blank (B036586-BLK1)				Prepared: 09/01/11 Analyzed: 09/03/11							
n-Propylbenzene	ND	0.050	mg/Kg wet								
Styrene	ND	0.050	mg/Kg wet								
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet								
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet								
Tetrachloroethylene	ND	0.050	mg/Kg wet								
Tetrahydrofuran	ND	0.50	mg/Kg wet							R-05	
Toluene	ND	0.050	mg/Kg wet								
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet								
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet								
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet								
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet								
Trichloroethylene	ND	0.050	mg/Kg wet								
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet								
Vinyl Chloride	ND	0.10	mg/Kg wet								
m+p Xylene	ND	0.10	mg/Kg wet								
o-Xylene	ND	0.050	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0256*		mg/Kg wet	0.0250		102	70-130				
Surrogate: Toluene-d8	*0.0250*		mg/Kg wet	0.0250		99.8	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0237*		mg/Kg wet	0.0250		94.7	70-130				
LCS (B036586-BS1)				Prepared: 09/01/11 Analyzed: 09/02/11							
Acetone	23.0	11	mg/Kg wet	22.7		101	40-160				†
tert-Amyl Methyl Ether (TAME)	2.36	0.11	mg/Kg wet	2.27		104	70-130				
Benzene	2.33	0.23	mg/Kg wet	2.27		103	70-130				
Bromobenzene	2.32	0.23	mg/Kg wet	2.27		102	70-130				
Bromochloromethane	2.41	0.23	mg/Kg wet	2.27		106	70-130				
Bromodichloromethane	2.35	0.23	mg/Kg wet	2.27		104	70-130				
Bromoform	2.33	0.23	mg/Kg wet	2.27		103	70-130				
Bromomethane	2.65	0.45	mg/Kg wet	2.27		117	40-160			V-20	†
2-Butanone (MEK)	25.8	4.5	mg/Kg wet	22.7		114	40-160				†
n-Butylbenzene	2.48	0.23	mg/Kg wet	2.27		109	70-130				
sec-Butylbenzene	2.49	0.23	mg/Kg wet	2.27		110	70-130				
tert-Butylbenzene	2.46	0.23	mg/Kg wet	2.27		109	70-130				
tert-Butyl Ethyl Ether (TBEE)	2.39	0.11	mg/Kg wet	2.27		106	70-130				
Carbon Disulfide	23.2	2.3	mg/Kg wet	22.7		102	70-130				
Carbon Tetrachloride	2.28	0.23	mg/Kg wet	2.27		100	70-130				
Chlorobenzene	2.38	0.23	mg/Kg wet	2.27		105	70-130				
Chlorodibromomethane	2.39	0.11	mg/Kg wet	2.27		106	70-130				
Chloroethane	2.06	0.45	mg/Kg wet	2.27		90.9	70-130				
Chloroform	2.23	0.45	mg/Kg wet	2.27		98.4	70-130				
Chloromethane	1.68	0.45	mg/Kg wet	2.27		74.2	40-160			V-05	†
2-Chlorotoluene	2.39	0.23	mg/Kg wet	2.27		106	70-130				
4-Chlorotoluene	2.39	0.23	mg/Kg wet	2.27		105	70-130				
1,2-Dibromo-3-chloropropane (DBCP)	2.49	1.1	mg/Kg wet	2.27		110	70-130				
1,2-Dibromoethane (EDB)	2.41	0.11	mg/Kg wet	2.27		106	70-130				
Dibromomethane	2.39	0.23	mg/Kg wet	2.27		105	70-130				
1,2-Dichlorobenzene	2.42	0.23	mg/Kg wet	2.27		107	70-130				
1,3-Dichlorobenzene	2.44	0.23	mg/Kg wet	2.27		108	70-130				
1,4-Dichlorobenzene	2.42	0.23	mg/Kg wet	2.27		107	70-130				

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B036586 - SW-846 5035											
LCS (B036586-BS1)				Prepared: 09/01/11 Analyzed: 09/02/11							
Dichlorodifluoromethane (Freon 12)	2.09	0.45	mg/Kg wet	2.27		92.1	40-160				†
1,1-Dichloroethane	2.32	0.23	mg/Kg wet	2.27		102	70-130				
1,2-Dichloroethane	2.20	0.23	mg/Kg wet	2.27		96.9	70-130				
1,1-Dichloroethylene	2.29	0.23	mg/Kg wet	2.27		101	70-130				
cis-1,2-Dichloroethylene	2.34	0.23	mg/Kg wet	2.27		103	70-130				
trans-1,2-Dichloroethylene	2.29	0.23	mg/Kg wet	2.27		101	70-130				
1,2-Dichloropropane	2.38	0.23	mg/Kg wet	2.27		105	70-130				
1,3-Dichloropropane	2.39	0.11	mg/Kg wet	2.27		105	70-130				
2,2-Dichloropropane	2.06	0.23	mg/Kg wet	2.27		91.1	70-130				
1,1-Dichloropropene	2.30	0.45	mg/Kg wet	2.27		101	70-130				
cis-1,3-Dichloropropene	2.33	0.11	mg/Kg wet	2.27		103	70-130				
trans-1,3-Dichloropropene	2.29	0.11	mg/Kg wet	2.27		101	70-130				
Diethyl Ether	2.32	0.45	mg/Kg wet	2.27		102	70-130				
Diisopropyl Ether (DIPE)	2.32	0.11	mg/Kg wet	2.27		102	70-130				
1,4-Dioxane	27.2	11	mg/Kg wet	22.7		120	40-160			V-16	†
Ethylbenzene	2.36	0.23	mg/Kg wet	2.27		104	70-130				
Hexachlorobutadiene	2.40	0.23	mg/Kg wet	2.27		106	70-130				
2-Hexanone (MBK)	26.0	2.3	mg/Kg wet	22.7		114	40-160				†
Isopropylbenzene (Cumene)	2.34	0.23	mg/Kg wet	2.27		103	70-130				
p-Isopropyltoluene (p-Cymene)	2.44	0.23	mg/Kg wet	2.27		108	70-130				
Methyl tert-Butyl Ether (MTBE)	2.40	0.23	mg/Kg wet	2.27		106	70-130				
Methylene Chloride	2.37	1.1	mg/Kg wet	2.27		105	70-130				
4-Methyl-2-pentanone (MIBK)	25.3	2.3	mg/Kg wet	22.7		112	40-160				†
Naphthalene	2.61	0.45	mg/Kg wet	2.27		115	70-130				
n-Propylbenzene	2.41	0.23	mg/Kg wet	2.27		106	70-130				
Styrene	2.40	0.23	mg/Kg wet	2.27		106	70-130				
1,1,1,2-Tetrachloroethane	2.40	0.23	mg/Kg wet	2.27		106	70-130				
1,1,2,2-Tetrachloroethane	2.41	0.11	mg/Kg wet	2.27		106	70-130				
Tetrachloroethylene	2.35	0.23	mg/Kg wet	2.27		104	70-130				
Tetrahydrofuran	2.52	2.3	mg/Kg wet	2.27		111	70-130			R-05	
Toluene	2.33	0.23	mg/Kg wet	2.27		103	70-130				
1,2,3-Trichlorobenzene	2.50	1.1	mg/Kg wet	2.27		110	70-130				
1,2,4-Trichlorobenzene	2.48	0.23	mg/Kg wet	2.27		110	70-130				
1,1,1-Trichloroethane	2.28	0.23	mg/Kg wet	2.27		100	70-130				
1,1,2-Trichloroethane	2.34	0.23	mg/Kg wet	2.27		103	70-130				
Trichloroethylene	2.31	0.23	mg/Kg wet	2.27		102	70-130				
Trichlorofluoromethane (Freon 11)	2.27	0.45	mg/Kg wet	2.27		100	70-130				
1,2,3-Trichloropropane	2.43	0.45	mg/Kg wet	2.27		107	70-130				
1,2,4-Trimethylbenzene	2.45	0.23	mg/Kg wet	2.27		108	70-130				
1,3,5-Trimethylbenzene	2.38	0.23	mg/Kg wet	2.27		105	70-130				
Vinyl Chloride	2.06	0.45	mg/Kg wet	2.27		90.9	70-130				
m+p Xylene	4.81	0.45	mg/Kg wet	4.53		106	70-130				
o-Xylene	2.40	0.23	mg/Kg wet	2.27		106	70-130				
Surrogate: 1,2-Dichloroethane-d4	*0.0288*		mg/Kg wet	0.0283		102	70-130				
Surrogate: Toluene-d8	*0.0283*		mg/Kg wet	0.0283		100	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0274*		mg/Kg wet	0.0283		96.7	70-130				

QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B036586 - SW-846 5035											
LCS Dup (B036586-BSD1)				Prepared: 09/01/11 Analyzed: 09/03/11							
Acetone	20.5	11	mg/Kg wet	22.7		90.4	40-160	11.5	20		†
tert-Amyl Methyl Ether (TAME)	2.29	0.11	mg/Kg wet	2.27		101	70-130	2.63	20		
Benzene	2.31	0.23	mg/Kg wet	2.27		102	70-130	0.587	20		
Bromobenzene	2.32	0.23	mg/Kg wet	2.27		102	70-130	0.196	20		
Bromochloromethane	2.44	0.23	mg/Kg wet	2.27		108	70-130	1.03	20		
Bromodichloromethane	2.38	0.23	mg/Kg wet	2.27		105	70-130	1.25	20		
Bromoform	2.25	0.23	mg/Kg wet	2.27		99.2	70-130	3.37	20		
Bromomethane	2.62	0.45	mg/Kg wet	2.27		116	40-160	1.12	20	V-20	†
2-Butanone (MEK)	22.1	4.5	mg/Kg wet	22.7		97.5	40-160	15.6	20		†
n-Butylbenzene	2.48	0.23	mg/Kg wet	2.27		110	70-130	0.274	20		
sec-Butylbenzene	2.50	0.23	mg/Kg wet	2.27		110	70-130	0.454	20		
tert-Butylbenzene	2.46	0.23	mg/Kg wet	2.27		108	70-130	0.0921	20		
tert-Butyl Ethyl Ether (TBEE)	2.32	0.11	mg/Kg wet	2.27		102	70-130	2.98	20		
Carbon Disulfide	23.6	2.3	mg/Kg wet	22.7		104	70-130	1.73	20		
Carbon Tetrachloride	2.29	0.23	mg/Kg wet	2.27		101	70-130	0.695	20		
Chlorobenzene	2.39	0.23	mg/Kg wet	2.27		105	70-130	0.380	20		
Chlorodibromomethane	2.30	0.11	mg/Kg wet	2.27		101	70-130	4.06	20		
Chloroethane	2.15	0.45	mg/Kg wet	2.27		94.8	70-130	4.20	20		
Chloroform	2.22	0.45	mg/Kg wet	2.27		98.1	70-130	0.305	20		
Chloromethane	1.72	0.45	mg/Kg wet	2.27		75.7	40-160	2.00	20	V-05	†
2-Chlorotoluene	2.35	0.23	mg/Kg wet	2.27		104	70-130	1.82	20		
4-Chlorotoluene	2.35	0.23	mg/Kg wet	2.27		104	70-130	1.63	20		
1,2-Dibromo-3-chloropropane (DBCP)	2.12	1.1	mg/Kg wet	2.27		93.6	70-130	15.8	20		
1,2-Dibromoethane (EDB)	2.32	0.11	mg/Kg wet	2.27		102	70-130	3.64	20		
Dibromomethane	2.33	0.23	mg/Kg wet	2.27		103	70-130	2.40	20		
1,2-Dichlorobenzene	2.43	0.23	mg/Kg wet	2.27		107	70-130	0.373	20		
1,3-Dichlorobenzene	2.46	0.23	mg/Kg wet	2.27		109	70-130	0.739	20		
1,4-Dichlorobenzene	2.43	0.23	mg/Kg wet	2.27		107	70-130	0.374	20		
Dichlorodifluoromethane (Freon 12)	2.07	0.45	mg/Kg wet	2.27		91.4	40-160	0.763	20		†
1,1-Dichloroethane	2.35	0.23	mg/Kg wet	2.27		104	70-130	1.16	20		
1,2-Dichloroethane	2.16	0.23	mg/Kg wet	2.27		95.2	70-130	1.77	20		
1,1-Dichloroethylene	2.31	0.23	mg/Kg wet	2.27		102	70-130	0.691	20		
cis-1,2-Dichloroethylene	2.31	0.23	mg/Kg wet	2.27		102	70-130	1.46	20		
trans-1,2-Dichloroethylene	2.30	0.23	mg/Kg wet	2.27		101	70-130	0.494	20		
1,2-Dichloropropane	2.45	0.23	mg/Kg wet	2.27		108	70-130	2.53	20		
1,3-Dichloropropane	2.32	0.11	mg/Kg wet	2.27		102	70-130	2.69	20		
2,2-Dichloropropane	2.06	0.23	mg/Kg wet	2.27		91.0	70-130	0.110	20		
1,1-Dichloropropene	2.29	0.45	mg/Kg wet	2.27		101	70-130	0.395	20		
cis-1,3-Dichloropropene	2.30	0.11	mg/Kg wet	2.27		101	70-130	1.66	20		
trans-1,3-Dichloropropene	2.23	0.11	mg/Kg wet	2.27		98.5	70-130	2.70	20		
Diethyl Ether	2.21	0.45	mg/Kg wet	2.27		97.7	70-130	4.80	20		
Diisopropyl Ether (DIPE)	2.35	0.11	mg/Kg wet	2.27		104	70-130	1.26	20		
1,4-Dioxane	23.0	11	mg/Kg wet	22.7		101	40-160	16.8	20	V-16	†
Ethylbenzene	2.38	0.23	mg/Kg wet	2.27		105	70-130	0.669	20		
Hexachlorobutadiene	2.39	0.23	mg/Kg wet	2.27		105	70-130	0.568	20		
2-Hexanone (MBK)	22.4	2.3	mg/Kg wet	22.7		99.0	40-160	14.5	20		†
Isopropylbenzene (Cumene)	2.34	0.23	mg/Kg wet	2.27		103	70-130	0.0967	20		
p-Isopropyltoluene (p-Cymene)	2.45	0.23	mg/Kg wet	2.27		108	70-130	0.557	20		
Methyl tert-Butyl Ether (MTBE)	2.33	0.23	mg/Kg wet	2.27		103	70-130	3.17	20		
Methylene Chloride	2.38	1.1	mg/Kg wet	2.27		105	70-130	0.286	20		
4-Methyl-2-pentanone (MIBK)	22.5	2.3	mg/Kg wet	22.7		99.2	40-160	11.8	20		†
Naphthalene	2.37	0.45	mg/Kg wet	2.27		104	70-130	9.66	20		

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B036586 - SW-846 5035											
LCS Dup (B036586-BSD1)				Prepared: 09/01/11 Analyzed: 09/03/11							
n-Propylbenzene	2.39	0.23	mg/Kg wet	2.27		106	70-130	0.661		20	
Styrene	2.41	0.23	mg/Kg wet	2.27		106	70-130	0.377		20	
1,1,1,2-Tetrachloroethane	2.39	0.23	mg/Kg wet	2.27		106	70-130	0.189		20	
1,1,2,2-Tetrachloroethane	2.15	0.11	mg/Kg wet	2.27		95.0	70-130	11.4		20	
Tetrachloroethylene	2.35	0.23	mg/Kg wet	2.27		104	70-130	0.289		20	
Tetrahydrofuran	1.91	2.3	mg/Kg wet	2.27		84.1	70-130	**27.6**	*	20	R-05
Toluene	2.29	0.23	mg/Kg wet	2.27		101	70-130	1.76		20	
1,2,3-Trichlorobenzene	2.44	1.1	mg/Kg wet	2.27		108	70-130	2.75		20	
1,2,4-Trichlorobenzene	2.46	0.23	mg/Kg wet	2.27		109	70-130	0.825		20	
1,1,1-Trichloroethane	2.32	0.23	mg/Kg wet	2.27		102	70-130	1.87		20	
1,1,2-Trichloroethane	2.26	0.23	mg/Kg wet	2.27		99.5	70-130	3.75		20	
Trichloroethylene	2.39	0.23	mg/Kg wet	2.27		106	70-130	3.28		20	
Trichlorofluoromethane (Freon 11)	2.30	0.45	mg/Kg wet	2.27		101	70-130	1.29		20	
1,2,3-Trichloropropane	2.27	0.45	mg/Kg wet	2.27		100	70-130	6.75		20	
1,2,4-Trimethylbenzene	2.46	0.23	mg/Kg wet	2.27		108	70-130	0.555		20	
1,3,5-Trimethylbenzene	2.36	0.23	mg/Kg wet	2.27		104	70-130	1.05		20	
Vinyl Chloride	2.31	0.45	mg/Kg wet	2.27		102	70-130	11.2		20	
m+p Xylene	4.75	0.45	mg/Kg wet	4.53		105	70-130	1.37		20	
o-Xylene	2.36	0.23	mg/Kg wet	2.27		104	70-130	1.43		20	
Surrogate: 1,2-Dichloroethane-d4	*0.0292*		mg/Kg wet	0.0283		103	70-130				
Surrogate: Toluene-d8	*0.0283*		mg/Kg wet	0.0283		99.9	70-130				
Surrogate: 4-Bromofluorobenzene	*0.0273*		mg/Kg wet	0.0283		96.5	70-130				

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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 B036579 - SW-846 3546										
Blank (B036579-BLK1)				Prepared: 09/01/11 Analyzed: 09/02/11						
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							
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	0.66	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							V-06
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	0.66	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	0.66	mg/Kg wet							
1,2-Diphenylhydrazine (as Azobenzene)	ND	0.34	mg/Kg wet							V-05
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							V-06
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							V-05
2-Nitrophenol	ND	0.34	mg/Kg wet							
4-Nitrophenol	ND	0.66	mg/Kg wet							V-05
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 B036579 - SW-846 3546											
Blank (B036579-BLK1)				Prepared: 09/01/11 Analyzed: 09/02/11							
Phenol	ND	0.34	mg/Kg wet								
Pyrene	ND	0.17	mg/Kg wet							V-06	
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	*6.83*		mg/Kg wet	6.67		103	30-130				
Surrogate: Phenol-d6	*6.85*		mg/Kg wet	6.67		103	30-130				
Surrogate: Nitrobenzene-d5	*2.18*		mg/Kg wet	3.33		65.4	30-130				
Surrogate: 2-Fluorobiphenyl	*3.17*		mg/Kg wet	3.33		95.0	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.97*		mg/Kg wet	6.67		105	30-130				
Surrogate: Terphenyl-d14	*4.27*		mg/Kg wet	3.33		128	30-130				
LCS (B036579-BS1)				Prepared: 09/01/11 Analyzed: 09/02/11							
Acenaphthene	1.07	0.17	mg/Kg wet	1.33		80.3	40-140				
Acenaphthylene	1.02	0.17	mg/Kg wet	1.33		76.7	40-140				
Acetophenone	1.37	0.34	mg/Kg wet	1.67		81.9	40-140				
Aniline	0.688	0.34	mg/Kg wet	1.33		51.6	40-140				
Anthracene	1.09	0.17	mg/Kg wet	1.33		82.1	40-140				
Benzo(a)anthracene	1.05	0.17	mg/Kg wet	1.33		78.5	40-140				
Benzo(a)pyrene	1.10	0.17	mg/Kg wet	1.33		82.1	40-140				
Benzo(b)fluoranthene	1.13	0.17	mg/Kg wet	1.33		84.7	40-140				
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.33		91.5	40-140				
Benzo(k)fluoranthene	1.08	0.17	mg/Kg wet	1.33		81.2	40-140				
Bis(2-chloroethoxy)methane	1.05	0.34	mg/Kg wet	1.33		78.8	40-140				
Bis(2-chloroethyl)ether	1.04	0.34	mg/Kg wet	1.33		78.1	40-140				
Bis(2-chloroisopropyl)ether	0.731	0.34	mg/Kg wet	1.33		54.8	40-140			V-05	
Bis(2-Ethylhexyl)phthalate	1.22	0.34	mg/Kg wet	1.33		91.7	40-140				
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.33		85.2	40-140				
Butylbenzylphthalate	1.21	0.66	mg/Kg wet	1.33		90.8	40-140				
4-Chloroaniline	0.522	0.66	mg/Kg wet	1.33		39.1	15-140			L-15	†
2-Chloronaphthalene	0.980	0.34	mg/Kg wet	1.33		73.5	40-140				
2-Chlorophenol	1.18	0.34	mg/Kg wet	1.33		88.3	30-130				
Chrysene	1.08	0.17	mg/Kg wet	1.33		80.9	40-140				
Dibenz(a,h)anthracene	1.16	0.17	mg/Kg wet	1.33		86.6	40-140				
Dibenzofuran	1.15	0.34	mg/Kg wet	1.33		86.3	40-140				
Di-n-butylphthalate	1.16	0.34	mg/Kg wet	1.33		87.0	40-140				
1,2-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.33		79.8	40-140				
1,3-Dichlorobenzene	1.02	0.34	mg/Kg wet	1.33		76.2	40-140				
1,4-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.33		79.2	40-140				
3,3-Dichlorobenzidine	1.10	0.17	mg/Kg wet	1.67		65.8	40-140			V-06	
2,4-Dichlorophenol	1.19	0.34	mg/Kg wet	1.33		89.3	30-130				
Diethylphthalate	1.09	0.34	mg/Kg wet	1.33		81.7	40-140				
2,4-Dimethylphenol	1.16	0.34	mg/Kg wet	1.33		87.2	30-130				
Dimethylphthalate	1.11	0.66	mg/Kg wet	1.33		83.5	40-140				
2,4-Dinitrophenol	0.709	0.66	mg/Kg wet	1.33		53.2	15-140				†
2,4-Dinitrotoluene	1.24	0.34	mg/Kg wet	1.33		92.9	40-140				
2,6-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.33		91.3	40-140				
Di-n-octylphthalate	1.23	0.66	mg/Kg wet	1.33		92.4	40-140				
1,2-Diphenylhydrazine (as Azobenzene)	0.820	0.34	mg/Kg wet	1.33		61.5	40-140			V-05	
Fluoranthene	1.03	0.17	mg/Kg wet	1.33		77.5	40-140				
Fluorene	1.11	0.17	mg/Kg wet	1.33		83.5	40-140				
Hexachlorobenzene	1.19	0.34	mg/Kg wet	1.33		89.1	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 B036579 - SW-846 3546											
LCS (B036579-BS1)				Prepared: 09/01/11 Analyzed: 09/02/11							
Hexachlorobutadiene	0.943	0.34	mg/Kg wet	1.33		70.7	40-140				
Hexachloroethane	0.920	0.34	mg/Kg wet	1.33		69.0	40-140				
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.33		97.4	40-140			V-06	
Isophorone	0.937	0.34	mg/Kg wet	1.33		70.3	40-140				
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.33		82.7	40-140				
2-Methylphenol	0.718	0.34	mg/Kg wet	1.33		53.9	30-130				
3/4-Methylphenol	0.751	0.34	mg/Kg wet	1.33		56.4	30-130				
Naphthalene	1.00	0.17	mg/Kg wet	1.33		75.4	40-140				
Nitrobenzene	0.801	0.34	mg/Kg wet	1.33		60.1	40-140			V-05	
2-Nitrophenol	1.15	0.34	mg/Kg wet	1.33		86.0	30-130				
4-Nitrophenol	0.830	0.66	mg/Kg wet	1.33		62.3	15-140			V-05	†
Pentachlorophenol	0.539	0.34	mg/Kg wet	1.33		40.5	30-130				
Phenanthrene	1.07	0.17	mg/Kg wet	1.33		80.0	40-140				
Phenol	1.17	0.34	mg/Kg wet	1.33		88.1	15-140				†
Pyrene	1.32	0.17	mg/Kg wet	1.33		99.3	40-140			V-06	
1,2,4-Trichlorobenzene	1.09	0.34	mg/Kg wet	1.33		81.5	40-140				
2,4,5-Trichlorophenol	0.717	0.34	mg/Kg wet	1.33		53.8	30-130				
2,4,6-Trichlorophenol	1.12	0.34	mg/Kg wet	1.33		83.8	30-130				
Surrogate: 2-Fluorophenol	*6.21*		mg/Kg wet	6.67		93.2	30-130				
Surrogate: Phenol-d6	*6.31*		mg/Kg wet	6.67		94.7	30-130				
Surrogate: Nitrobenzene-d5	*2.19*		mg/Kg wet	3.33		65.6	30-130				
Surrogate: 2-Fluorobiphenyl	*2.99*		mg/Kg wet	3.33		89.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*8.42*		mg/Kg wet	6.67		126	30-130				
Surrogate: Terphenyl-d14	*4.11*		mg/Kg wet	3.33		123	30-130				
LCS Dup (B036579-BSD1)				Prepared: 09/01/11 Analyzed: 09/02/11							
Acenaphthene	1.07	0.17	mg/Kg wet	1.33		80.3	40-140	0.0623	30		
Acenaphthylene	1.03	0.17	mg/Kg wet	1.33		76.9	40-140	0.228	30		
Acetophenone	1.29	0.34	mg/Kg wet	1.67		77.4	40-140	5.73	30		
Aniline	0.695	0.34	mg/Kg wet	1.33		52.2	40-140	1.01	30		
Anthracene	1.08	0.17	mg/Kg wet	1.33		81.4	40-140	0.826	30		
Benzo(a)anthracene	1.05	0.17	mg/Kg wet	1.33		78.9	40-140	0.572	30		
Benzo(a)pyrene	1.10	0.17	mg/Kg wet	1.33		82.7	40-140	0.698	30		
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.33		88.0	40-140	3.76	30		
Benzo(g,h,i)perylene	1.16	0.17	mg/Kg wet	1.33		86.9	40-140	5.13	30		
Benzo(k)fluoranthene	1.11	0.17	mg/Kg wet	1.33		83.2	40-140	2.46	30		
Bis(2-chloroethoxy)methane	1.02	0.34	mg/Kg wet	1.33		76.7	40-140	2.64	30		
Bis(2-chloroethyl)ether	0.987	0.34	mg/Kg wet	1.33		74.0	40-140	5.33	30		
Bis(2-chloroisopropyl)ether	0.717	0.34	mg/Kg wet	1.33		53.8	40-140	1.93	30	V-05	
Bis(2-Ethylhexyl)phthalate	1.27	0.34	mg/Kg wet	1.33		95.3	40-140	3.85	30		
4-Bromophenylphenylether	1.14	0.34	mg/Kg wet	1.33		85.2	40-140	0.0293	30		
Butylbenzylphthalate	1.26	0.66	mg/Kg wet	1.33		94.8	40-140	4.39	30		
4-Chloroaniline	0.574	0.66	mg/Kg wet	1.33		43.1	15-140	9.61	30		†
2-Chloronaphthalene	0.975	0.34	mg/Kg wet	1.33		73.2	40-140	0.511	30		
2-Chlorophenol	1.13	0.34	mg/Kg wet	1.33		84.5	30-130	4.37	30		
Chrysene	1.07	0.17	mg/Kg wet	1.33		80.5	40-140	0.496	30		
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.33		85.2	40-140	1.69	30		
Dibenzofuran	1.16	0.34	mg/Kg wet	1.33		86.8	40-140	0.578	30		
Di-n-butylphthalate	1.17	0.34	mg/Kg wet	1.33		87.8	40-140	1.00	30		
1,2-Dichlorobenzene	1.03	0.34	mg/Kg wet	1.33		77.1	40-140	3.44	30		
1,3-Dichlorobenzene	1.02	0.34	mg/Kg wet	1.33		76.8	40-140	0.850	30		
1,4-Dichlorobenzene	1.06	0.34	mg/Kg wet	1.33		79.8	40-140	0.787	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 B036579 - SW-846 3546											
LCS Dup (B036579-BSD1)				Prepared: 09/01/11 Analyzed: 09/02/11							
3,3-Dichlorobenzidine	0.992	0.17	mg/Kg wet	1.67		59.5	40-140	10.0	30	V-06	
2,4-Dichlorophenol	1.16	0.34	mg/Kg wet	1.33		86.9	30-130	2.67	30		
Diethylphthalate	1.11	0.34	mg/Kg wet	1.33		83.5	40-140	2.18	30		
2,4-Dimethylphenol	1.14	0.34	mg/Kg wet	1.33		85.6	30-130	1.85	30		
Dimethylphthalate	1.12	0.66	mg/Kg wet	1.33		84.1	40-140	0.686	30		
2,4-Dinitrophenol	0.715	0.66	mg/Kg wet	1.33		53.6	15-140	0.796	30		†
2,4-Dinitrotoluene	1.27	0.34	mg/Kg wet	1.33		95.1	40-140	2.34	30		
2,6-Dinitrotoluene	1.26	0.34	mg/Kg wet	1.33		94.4	40-140	3.37	30		
Di-n-octylphthalate	1.44	0.66	mg/Kg wet	1.33		108	40-140	15.9	30		
1,2-Diphenylhydrazine (as Azobenzene)	0.810	0.34	mg/Kg wet	1.33		60.8	40-140	1.23	30	V-05	
Fluoranthene	1.22	0.17	mg/Kg wet	1.33		91.2	40-140	16.2	30		
Fluorene	1.13	0.17	mg/Kg wet	1.33		85.0	40-140	1.81	30		
Hexachlorobenzene	1.17	0.34	mg/Kg wet	1.33		87.9	40-140	1.38	30		
Hexachlorobutadiene	0.943	0.34	mg/Kg wet	1.33		70.7	40-140	0.00	30		
Hexachloroethane	0.909	0.34	mg/Kg wet	1.33		68.2	40-140	1.20	30		
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.33		95.3	40-140	2.21	30	V-06	
Isophorone	0.928	0.34	mg/Kg wet	1.33		69.6	40-140	0.930	30		
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.33		83.9	40-140	1.44	30		
2-Methylphenol	0.701	0.34	mg/Kg wet	1.33		52.6	30-130	2.35	30		
3/4-Methylphenol	0.727	0.34	mg/Kg wet	1.33		54.5	30-130	3.34	30		
Naphthalene	1.01	0.17	mg/Kg wet	1.33		75.8	40-140	0.661	30		
Nitrobenzene	0.795	0.34	mg/Kg wet	1.33		59.7	40-140	0.710	30	V-05	
2-Nitrophenol	1.13	0.34	mg/Kg wet	1.33		84.6	30-130	1.64	30		
4-Nitrophenol	0.920	0.66	mg/Kg wet	1.33		69.0	15-140	10.2	30	V-05	†
Pentachlorophenol	0.479	0.34	mg/Kg wet	1.33		36.0	30-130	11.8	30		
Phenanthrene	1.07	0.17	mg/Kg wet	1.33		80.1	40-140	0.219	30		
Phenol	1.12	0.34	mg/Kg wet	1.33		84.3	15-140	4.41	30		†
Pyrene	1.06	0.17	mg/Kg wet	1.33		79.7	40-140	22.0	30	V-06	
1,2,4-Trichlorobenzene	1.06	0.34	mg/Kg wet	1.33		79.7	40-140	2.17	30		
2,4,5-Trichlorophenol	0.721	0.34	mg/Kg wet	1.33		54.1	30-130	0.556	30		
2,4,6-Trichlorophenol	1.13	0.34	mg/Kg wet	1.33		84.9	30-130	1.33	30		
Surrogate: 2-Fluorophenol	*6.03*		mg/Kg wet	6.67		90.5	30-130				
Surrogate: Phenol-d6	*6.03*		mg/Kg wet	6.67		90.5	30-130				
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.3	30-130				
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.1	30-130				
Surrogate: 2,4,6-Tribromophenol	*8.38*		mg/Kg wet	6.67		126	30-130				
Surrogate: Terphenyl-d14	*3.42*		mg/Kg wet	3.33		103	30-130				

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B036474 - SW-846 3546										
Blank (B036474-BLK1)				Prepared: 08/31/11 Analyzed: 09/01/11						
Aldrin	ND	0.0050	mg/Kg wet							
Aldrin [2C]	ND	0.0050	mg/Kg wet							
alpha-BHC	ND	0.0050	mg/Kg wet							
alpha-BHC [2C]	ND	0.0050	mg/Kg wet							
beta-BHC	ND	0.0050	mg/Kg wet							
beta-BHC [2C]	ND	0.0050	mg/Kg wet							
delta-BHC	ND	0.0050	mg/Kg wet							
delta-BHC [2C]	ND	0.0050	mg/Kg wet							
gamma-BHC (Lindane)	ND	0.0020	mg/Kg wet							
gamma-BHC (Lindane) [2C]	ND	0.0020	mg/Kg wet							
Chlordane	ND	0.020	mg/Kg wet							
Chlordane [2C]	ND	0.020	mg/Kg wet							
4,4'-DDD	ND	0.0040	mg/Kg wet							
4,4'-DDD [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDE	ND	0.0040	mg/Kg wet							
4,4'-DDE [2C]	ND	0.0040	mg/Kg wet							
4,4'-DDT	ND	0.0040	mg/Kg wet							
4,4'-DDT [2C]	ND	0.0040	mg/Kg wet							
Dieldrin	ND	0.0040	mg/Kg wet							
Dieldrin [2C]	ND	0.0040	mg/Kg wet							
Endosulfan I	ND	0.0050	mg/Kg wet							
Endosulfan I [2C]	ND	0.0050	mg/Kg wet							
Endosulfan II	ND	0.0080	mg/Kg wet							
Endosulfan II [2C]	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate	ND	0.0080	mg/Kg wet							
Endosulfan Sulfate [2C]	ND	0.0080	mg/Kg wet							
Endrin	ND	0.0080	mg/Kg wet							
Endrin [2C]	ND	0.0080	mg/Kg wet							
Endrin Aldehyde	ND	0.0080	mg/Kg wet							
Endrin Aldehyde [2C]	ND	0.0080	mg/Kg wet							
Endrin Ketone	ND	0.0080	mg/Kg wet							
Endrin Ketone [2C]	ND	0.0080	mg/Kg wet							
Heptachlor	ND	0.0050	mg/Kg wet							
Heptachlor [2C]	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide	ND	0.0050	mg/Kg wet							
Heptachlor Epoxide [2C]	ND	0.0050	mg/Kg wet							
Hexachlorobenzene	ND	0.0050	mg/Kg wet							
Hexachlorobenzene [2C]	ND	0.0050	mg/Kg wet							
Methoxychlor	ND	0.050	mg/Kg wet							
Methoxychlor [2C]	ND	0.050	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.154*		mg/Kg wet	0.200		77.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.162*		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.152*		mg/Kg wet	0.200		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.200		82.9	30-150			

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B036474 - SW-846 3546										
LCS (B036474-BS1)				Prepared: 08/31/11 Analyzed: 09/03/11						
Aldrin	0.017	0.0050	mg/Kg wet	0.0200		83.0	40-140			
Aldrin [2C]	0.017	0.0050	mg/Kg wet	0.0200		83.2	40-140			
alpha-BHC	0.018	0.0050	mg/Kg wet	0.0200		92.2	40-140			
alpha-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		90.4	40-140			
beta-BHC	0.019	0.0050	mg/Kg wet	0.0200		93.6	40-140			
beta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.4	40-140			
delta-BHC	0.019	0.0050	mg/Kg wet	0.0200		95.7	40-140			
delta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		89.6	40-140			
gamma-BHC (Lindane)	0.018	0.0020	mg/Kg wet	0.0200		89.5	40-140			
gamma-BHC (Lindane) [2C]	0.018	0.0020	mg/Kg wet	0.0200		89.8	40-140			
4,4'-DDD	0.019	0.0040	mg/Kg wet	0.0200		95.3	40-140			
4,4'-DDD [2C]	0.019	0.0040	mg/Kg wet	0.0200		96.9	40-140			
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		93.4	40-140			
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		94.8	40-140			
4,4'-DDT	0.019	0.0040	mg/Kg wet	0.0200		94.0	40-140			
4,4'-DDT [2C]	0.018	0.0040	mg/Kg wet	0.0200		89.6	40-140			
Dieldrin	0.019	0.0040	mg/Kg wet	0.0200		94.8	40-140			
Dieldrin [2C]	0.020	0.0040	mg/Kg wet	0.0200		97.8	40-140			
Endosulfan I	0.019	0.0050	mg/Kg wet	0.0200		97.2	40-140			
Endosulfan I [2C]	0.019	0.0050	mg/Kg wet	0.0200		97.4	40-140			
Endosulfan II	0.019	0.0080	mg/Kg wet	0.0200		97.1	40-140			
Endosulfan II [2C]	0.020	0.0080	mg/Kg wet	0.0200		97.5	40-140			
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		98.6	40-140			
Endosulfan Sulfate [2C]	0.021	0.0080	mg/Kg wet	0.0200		103	40-140			
Endrin	0.020	0.0080	mg/Kg wet	0.0200		100	40-140			
Endrin [2C]	0.015	0.0080	mg/Kg wet	0.0200		77.2	40-140			
Endrin Ketone	0.019	0.0080	mg/Kg wet	0.0200		94.8	40-140			
Endrin Ketone [2C]	0.021	0.0080	mg/Kg wet	0.0200		104	40-140			
Heptachlor	0.017	0.0050	mg/Kg wet	0.0200		86.4	40-140			
Heptachlor [2C]	0.017	0.0050	mg/Kg wet	0.0200		84.0	40-140			
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		97.7	40-140			
Heptachlor Epoxide [2C]	0.019	0.0050	mg/Kg wet	0.0200		96.4	40-140			
Hexachlorobenzene	0.017	0.0050	mg/Kg wet	0.0200		86.3	40-140			
Hexachlorobenzene [2C]	0.016	0.0050	mg/Kg wet	0.0200		79.4	40-140			
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		98.5	40-140			
Methoxychlor [2C]	0.020	0.050	mg/Kg wet	0.0200		97.7	40-140			
Surrogate: Decachlorobiphenyl	*0.130*		mg/Kg wet	0.200		65.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.144*		mg/Kg wet	0.200		71.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.133*		mg/Kg wet	0.200		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.143*		mg/Kg wet	0.200		71.3	30-150			
LCS Dup (B036474-BSD1)				Prepared: 08/31/11 Analyzed: 09/03/11						
Aldrin	0.017	0.0050	mg/Kg wet	0.0200		83.5	40-140	0.685	30	
Aldrin [2C]	0.017	0.0050	mg/Kg wet	0.0200		84.7	40-140	1.90	30	
alpha-BHC	0.019	0.0050	mg/Kg wet	0.0200		92.9	40-140	0.659	30	
alpha-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		91.1	40-140	0.816	30	
beta-BHC	0.019	0.0050	mg/Kg wet	0.0200		93.8	40-140	0.267	30	
beta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		92.2	40-140	0.850	30	
delta-BHC	0.019	0.0050	mg/Kg wet	0.0200		96.5	40-140	0.863	30	
delta-BHC [2C]	0.018	0.0050	mg/Kg wet	0.0200		90.8	40-140	1.26	30	
gamma-BHC (Lindane)	0.018	0.0020	mg/Kg wet	0.0200		90.0	40-140	0.618	30	
gamma-BHC (Lindane) [2C]	0.018	0.0020	mg/Kg wet	0.0200		90.8	40-140	1.02	30	

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QUALITY CONTROL

Organochloride Pesticides by GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B036474 - SW-846 3546										
LCS Dup (B036474-BSD1)				Prepared: 08/31/11 Analyzed: 09/03/11						
4,4'-DDD	0.019	0.0040	mg/Kg wet	0.0200		96.1	40-140	0.883	30	
4,4'-DDD [2C]	0.020	0.0040	mg/Kg wet	0.0200		97.8	40-140	0.930	30	
4,4'-DDE	0.019	0.0040	mg/Kg wet	0.0200		94.2	40-140	0.832	30	
4,4'-DDE [2C]	0.019	0.0040	mg/Kg wet	0.0200		95.7	40-140	1.00	30	
4,4'-DDT	0.019	0.0040	mg/Kg wet	0.0200		94.9	40-140	1.04	30	
4,4'-DDT [2C]	0.018	0.0040	mg/Kg wet	0.0200		91.5	40-140	2.10	30	
Dieldrin	0.019	0.0040	mg/Kg wet	0.0200		95.5	40-140	0.809	30	
Dieldrin [2C]	0.020	0.0040	mg/Kg wet	0.0200		98.8	40-140	1.01	30	
Endosulfan I	0.020	0.0050	mg/Kg wet	0.0200		97.8	40-140	0.687	30	
Endosulfan I [2C]	0.020	0.0050	mg/Kg wet	0.0200		98.4	40-140	0.965	30	
Endosulfan II	0.020	0.0080	mg/Kg wet	0.0200		97.9	40-140	0.836	30	
Endosulfan II [2C]	0.020	0.0080	mg/Kg wet	0.0200		98.5	40-140	1.02	30	
Endosulfan Sulfate	0.020	0.0080	mg/Kg wet	0.0200		99.5	40-140	0.883	30	
Endosulfan Sulfate [2C]	0.021	0.0080	mg/Kg wet	0.0200		105	40-140	1.20	30	
Endrin	0.020	0.0080	mg/Kg wet	0.0200		101	40-140	0.847	30	
Endrin [2C]	0.016	0.0080	mg/Kg wet	0.0200		79.3	40-140	2.77	30	
Endrin Ketone	0.019	0.0080	mg/Kg wet	0.0200		94.8	40-140	0.0106	30	
Endrin Ketone [2C]	0.021	0.0080	mg/Kg wet	0.0200		104	40-140	0.744	30	
Heptachlor	0.017	0.0050	mg/Kg wet	0.0200		87.2	40-140	0.944	30	
Heptachlor [2C]	0.017	0.0050	mg/Kg wet	0.0200		85.0	40-140	1.27	30	
Heptachlor Epoxide	0.020	0.0050	mg/Kg wet	0.0200		98.4	40-140	0.719	30	
Heptachlor Epoxide [2C]	0.019	0.0050	mg/Kg wet	0.0200		97.4	40-140	1.01	30	
Hexachlorobenzene	0.017	0.0050	mg/Kg wet	0.0200		86.4	40-140	0.185	30	
Hexachlorobenzene [2C]	0.016	0.0050	mg/Kg wet	0.0200		79.4	40-140	0.0945	30	
Methoxychlor	0.020	0.050	mg/Kg wet	0.0200		99.9	40-140	1.43	30	
Methoxychlor [2C]	0.020	0.050	mg/Kg wet	0.0200		99.7	40-140	2.03	30	
Surrogate: Decachlorobiphenyl	*0.131*		mg/Kg wet	0.200		65.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.146*		mg/Kg wet	0.200		72.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.133*		mg/Kg wet	0.200		66.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.143*		mg/Kg wet	0.200		71.4	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 B036473 - SW-846 3546										
Blank (B036473-BLK1)				Prepared: 08/31/11 Analyzed: 09/01/11						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.156*		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.200		81.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg wet	0.200		90.2	30-150			
LCS (B036473-BS1)				Prepared: 08/31/11 Analyzed: 09/02/11						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.0	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.8	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.3	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.0	40-140			
Surrogate: Decachlorobiphenyl	*0.150*		mg/Kg wet	0.200		75.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.158*		mg/Kg wet	0.200		79.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.158*		mg/Kg wet	0.200		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg wet	0.200		90.2	30-150			
LCS Dup (B036473-BSD1)				Prepared: 08/31/11 Analyzed: 09/02/11						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	5.42	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.1	40-140	5.69	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.1	40-140	8.65	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.4	40-140	9.70	30	
Surrogate: Decachlorobiphenyl	*0.159*		mg/Kg wet	0.200		79.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg wet	0.200		84.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg wet	0.200		89.0	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 B036577 - SW-846 3546											
Blank (B036577-BLK1)				Prepared: 09/01/11 Analyzed: 09/06/11							
TPH C9-C36 Hydrocarbons as Diesel	ND	8.3	mg/Kg wet								
Surrogate: o-Terphenyl	*2.90*		mg/Kg wet	3.33		87.0		40-140			
LCS (B036577-BS1)				Prepared: 09/01/11 Analyzed: 09/06/11							
TPH C9-C36 Hydrocarbons as Diesel	26.9	8.3	mg/Kg wet	33.3		80.6		40-140			
Surrogate: o-Terphenyl	*2.68*		mg/Kg wet	3.33		80.4		40-140			
LCS Dup (B036577-BSD1)				Prepared: 09/01/11 Analyzed: 09/06/11							
TPH C9-C36 Hydrocarbons as Diesel	26.5	8.3	mg/Kg wet	33.3		79.4		40-140	1.46	30	
Surrogate: o-Terphenyl	*2.68*		mg/Kg wet	3.33		80.5		40-140			
Matrix Spike (B036577-MS1)	**Source: 11H1248-01**			Prepared: 09/01/11 Analyzed: 09/06/11							
TPH C9-C36 Hydrocarbons as Diesel	1370	370	mg/Kg dry	36.5	1180	**526**	*	40-140			MS-19
Surrogate: o-Terphenyl	*2.91*		mg/Kg dry	3.65		79.6		40-140			
Matrix Spike Dup (B036577-MSD1)	**Source: 11H1248-01**			Prepared: 09/01/11 Analyzed: 09/06/11							
TPH C9-C36 Hydrocarbons as Diesel	1050	370	mg/Kg dry	36.5	1180	**-349**	*	40-140	26.4	30	MS-19
Surrogate: o-Terphenyl	*2.70*		mg/Kg dry	3.65		74.0		40-140			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B036590 - SW-846 7471										
Blank (B036590-BLK1)				Prepared & Analyzed: 09/01/11						
Mercury	ND	0.025	mg/Kg wet							
LCS (B036590-BS1)				Prepared & Analyzed: 09/01/11						
Mercury	1.19	0.092	mg/Kg wet	1.25		95.0	66-132			
LCS Dup (B036590-BSD1)				Prepared & Analyzed: 09/01/11						
Mercury	1.10	0.092	mg/Kg wet	1.25		87.8	66-132	7.81	30	
Batch B036600 - SW-846 3050B										
Blank (B036600-BLK1)				Prepared: 09/01/11 Analyzed: 09/02/11						
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
LCS (B036600-BS1)				Prepared: 09/01/11 Analyzed: 09/02/11						
Arsenic	96.2	5.0	mg/Kg wet	92.6		104	83.2-117.4			
Barium	175	5.0	mg/Kg wet	169		103	83.1-116.9			
Cadmium	65.7	0.50	mg/Kg wet	61.8		106	80.7-119.1			
Chromium	72.1	1.0	mg/Kg wet	71.3		101	80.6-119.9			
Lead	89.1	1.5	mg/Kg wet	92.4		96.4	78.9-121.1			
Selenium	93.5	10	mg/Kg wet	89.5		104	79.2-120.3			
Silver	34.6	1.0	mg/Kg wet	34.4		101	66.3-133.7			
LCS (B036600-BS2)				Prepared: 09/01/11 Analyzed: 09/02/11						
Lead	1.05	0.73	mg/Kg wet	0.731		**144** *	80-120			M-10
LCS Dup (B036600-BSD1)				Prepared: 09/01/11 Analyzed: 09/02/11						
Arsenic	97.5	5.0	mg/Kg wet	92.6		105	83.2-117.4	1.37	30	
Barium	175	5.0	mg/Kg wet	169		103	83.1-116.9	0.0929	30	
Cadmium	68.8	0.50	mg/Kg wet	61.8		111	80.7-119.1	4.66	30	
Chromium	73.5	1.0	mg/Kg wet	71.3		103	80.6-119.9	1.99	30	
Lead	89.7	1.5	mg/Kg wet	92.4		97.0	78.9-121.1	0.631	30	
Selenium	94.0	10	mg/Kg wet	89.5		105	79.2-120.3	0.531	30	
Silver	35.6	1.0	mg/Kg wet	34.4		103	66.3-133.7	2.76	30	

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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 B036658 - SW-846 9014										
Blank (B036658-BLK1)				Prepared: 09/01/11 Analyzed: 09/02/11						
Reactive Cyanide	ND	0.40	mg/Kg							
LCS (B036658-BS1)				Prepared: 09/01/11 Analyzed: 09/02/11						
Reactive Cyanide	10	0.40	mg/Kg	10.0		102	0-200			
Batch B036661 - SW-846 9030A										
Blank (B036661-BLK1)				Prepared & Analyzed: 09/01/11						
Reactive Sulfide	ND	2.0	mg/Kg							
LCS (B036661-BS1)				Prepared & Analyzed: 09/01/11						
Reactive Sulfide	14	2.0	mg/Kg	15.2		94.7	0-200			
Batch B036665 - SW-846 1010										
Blank (B036665-BLK1)				Prepared & Analyzed: 09/01/11						
Flashpoint	> 212 °F		°F							
LCS (B036665-BS1)				Prepared & Analyzed: 09/01/11						
Flashpoint	81		°F	81.0		99.5	98.8-101			
LCS Dup (B036665-BSD1)				Prepared & Analyzed: 09/01/11						
Flashpoint	81		°F	81.0		99.5	98.8-101	0.00	1.57	
Batch B036801 - SM18-20 2510B										
Blank (B036801-BLK1)				Prepared & Analyzed: 09/06/11						
Specific conductance	ND	2.0	µmhos/cm							
LCS (B036801-BS1)				Prepared & Analyzed: 09/06/11						
Specific conductance	150	2.0	µmhos/cm	147		98.9	78.2-106			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch H110902 - SW-846 3540C										
BLK (H110902-BLK1)				Prepared: 09/02/11 Analyzed: 09/03/11						
2,4-D	ND	50	µg/Kg				-			
2,4-DB	ND	50	µg/Kg				-			
2,4,5-TP (Silvex)	ND	50	µg/Kg				-			
2,4,5-T	ND	50	µg/Kg				-			
Dalapon	ND	50	µg/Kg				-			
Dicamba	ND	50	µg/Kg				-			
Dichloroprop	ND	50	µg/Kg				-			
Dinoseb	ND	50	µg/Kg				-			
Surrogate: DCMA	*106*		µg/Kg			132	30-150			
BS (H110902-BS1)				Prepared: 09/02/11 Analyzed: 09/03/11						
2,4-D	795	250	µg/Kg	1000		80	40-140			
2,4-DB	1035	250	µg/Kg	1000		104	40-140			
2,4,5-TP (Silvex)	888	250	µg/Kg	1000		89	40-140			
2,4,5-T	777	250	µg/Kg	1000		78	40-140			
Dalapon	956	250	µg/Kg	1000		96	40-140			
Dicamba	819	250	µg/Kg	1000		82	40-140			
Dichloroprop	965	250	µg/Kg	1000		97	40-140			
Dinoseb	431	250	µg/Kg	1000		43	40-140			
Surrogate: DCMA	*110*		µg/Kg			110	30-150			
BSD (H110902-BSD1)				Prepared: 09/02/11 Analyzed: 09/03/11						
2,4-D	717	250	µg/Kg	1000		72	40-140			
2,4-DB	931	250	µg/Kg	1000		93	40-140			
2,4,5-TP (Silvex)	772	250	µg/Kg	1000		77	40-140			
2,4,5-T	688	250	µg/Kg	1000		69	40-140			
Dalapon	974	250	µg/Kg	1000		97	40-140			
Dicamba	733	250	µg/Kg	1000		73	40-140			
Dichloroprop	854	250	µg/Kg	1000		85	40-140			
Dinoseb	480	250	µg/Kg	1000		48	40-140			
Surrogate: DCMA	*94*		µg/Kg			94	30-150			

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BREAKDOWN REPORT

Lab Sample ID:	S001007-PEM1	Analyzed:	09/03/2011

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	2.13
Endrin [1]	6.43

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	5.87
Endrin [2]	4.85

BREAKDOWN REPORT

Lab Sample ID:	S001008-PEM1	Analyzed:	09/01/2011

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	0.00
Endrin [1]	3.65

Column Number: 2

Analyte	% Breakdown
4,4'-DDT [2]	0.87
Endrin [2]	4.78

BREAKDOWN REPORT

Lab Sample ID:	S001020-PEM1	Analyzed:	09/08/2011

Column Number: 1

Analyte	% Breakdown
4,4'-DDT [1]	1.50
Endrin [1]	9.93

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BREAKDOWN REPORT

Lab Sample ID: **S001020-PEM1** **Analyzed:** **09/08/2011**

Column Number: **2**

Analyte	% Breakdown
4,4'-DDT [2]	0.61
Endrin [2]	5.98

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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.
L-15	Compound classified by MA CAM as difficult with acceptable recoveries of 15-140%. Recovery does not meet criteria of 40-140% for Base/Neutral or 30-130% for Acids but does meet difficult compound criteria.
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
RL-07	Elevated reporting limit based on lowest point in calibration. MA CAM reporting limit not met.
RL-08	Elevated reporting limit due to sample matrix interference. MA CAM reporting limit not met.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy are associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 1010 in Soil	
Flashpoint	NY,NC,ME
SW-846 6010C in Soil	
Arsenic	CT,NH,NY,ME,NC
Barium	CT,NH,NY,ME,NC
Cadmium	CT,NH,NY,ME,NC
Chromium	CT,NH,NY,ME,NC
Lead	CT,NH,NY,AIHA,ME,NC
Selenium	CT,NH,NY,ME,NC
Silver	CT,NH,NY,ME,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME
SW-846 8081B in Soil	
Aldrin	CT,NC,NH,NY,ME
Aldrin [2C]	CT,NC,NH,NY,ME
alpha-BHC	CT,NC,NH,NY,ME
alpha-BHC [2C]	CT,NC,NH,NY,ME
beta-BHC	CT,NC,NH,NY,ME
beta-BHC [2C]	CT,NC,NH,NY,ME
delta-BHC	CT,NC,NH,NY,ME
delta-BHC [2C]	CT,NC,NH,NY,ME
gamma-BHC (Lindane)	CT,NC,NH,NY,ME
gamma-BHC (Lindane) [2C]	CT,NC,NH,NY,ME
Chlordane	CT,NC,NH,NY,ME
Chlordane [2C]	CT,NC,NH,NY,ME
4,4'-DDD	CT,NC,NH,NY,ME
4,4'-DDD [2C]	CT,NC,NH,NY,ME
4,4'-DDE	CT,NC,NH,NY,ME
4,4'-DDE [2C]	CT,NC,NH,NY,ME
4,4'-DDT	CT,NC,NH,NY,ME
4,4'-DDT [2C]	CT,NC,NH,NY,ME
Dieldrin	CT,NC,NH,NY,ME
Dieldrin [2C]	CT,NC,NH,NY,ME
Endosulfan I	CT,NC,NH,NY,ME
Endosulfan I [2C]	CT,NC,NH,NY,ME
Endosulfan II	CT,NC,NH,NY,ME
Endosulfan II [2C]	CT,NC,NH,NY,ME
Endosulfan Sulfate	CT,NC,NH,NY,ME
Endosulfan Sulfate [2C]	CT,NC,NH,NY,ME
Endrin	CT,NC,NH,NY,ME
Endrin [2C]	CT,NC,NH,NY,ME
Endrin Ketone	NC
Endrin Ketone [2C]	NC
Heptachlor	CT,NC,NH,NY,ME
Heptachlor [2C]	CT,NC,NH,NY,ME
Heptachlor Epoxide	CT,NC,NH,NY,ME
Heptachlor Epoxide [2C]	CT,NC,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8081B in Soil	
Hexachlorobenzene	NC
Hexachlorobenzene [2C]	NC
Methoxychlor	CT,NC,NH,NY,ME
Methoxychlor [2C]	CT,NC,NH,NY,ME
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8151A in Soil	
2,4-D	NY,ME,NC,NH
2,4-DB	NY,ME,NC,NH
2,4,5-TP (Silvex)	NY,ME,NC,NH
2,4,5-T	NY,ME,NC,NH
Dalapon	NY,ME,NC,NH
Dicamba	NY,ME,NC,NH
Dichloroprop	NY,ME,NC,NH
Dinoseb	NY,ME,NC,NH
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromochloromethane	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
SW-846 9014 in Soil	
Reactive Cyanide	NY,CT,NH
SW-846 9030A in Soil	
Reactive Sulfide	CT,NY,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

11H1248

Company Name: MILLENNIUM ENVIRONMENTAL
Address: 197M BOSTON POST RD. W#318
MARLBOROUGH, MA 01752
Attention: JESSE MAGGS
Project Location: READVILLE YARD 5
Sampled By: JM

Telephone: (508) 303-2000
Project #: RY5
Client PO#: RY5-001

DATA DELIVERY (check all that apply)
☑ FAX ☑ EMAIL ○ WEBSITE
Fax #: (508) 303-0006
Email: JMAGGS@ATLANTICDEMO.COM
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 7/7 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
-1	RY5-520-D	8/31/11	11:00	X	V	S	U
-2	C(1)						
-3	C(2)						
-4	B(1)						
-5	B(2)						
-6	B(3)		11:45				

# of Containers	1	2									
** Preservation	M	-									
***Container Code	V	A									

ANALYSIS REQUESTED

VOC	SVOC	RCRA 8*	TPH 8100	PCBs	PEST./HERB.	CONDUCTIVITY	CORROSIVITY	REACTIVITY	FLASHPOINT
X	X	X	X	X	X	X	X	X	X

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: * RUN TCLP ON METALS EXCEEDING 20X
PLEASE RUN HEX Cr IF RESULTS EXCEED 30 ppm

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: 8/31/11 12:00
Received by: (signature)	Date/Time: 8/31/11 1432
Relinquished by: (signature)	Date/Time: 8/31/11 1840
Received by: (signature) 3.6	Date/Time: 8/31/11 1840

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

Detection Limit Requirements
Massachusetts: RCS-1
Connecticut:
Other:

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

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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Sample Receipt Checklist

CLIENT NAME: Millenium Environmental RECEIVED BY: SD DATE: 8/31/11

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

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

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

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.6

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: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	12
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	6	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 6

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

MassDEP Analytical Protocol Certification Form

Laboratory Name: New England Testing Laboratory, Inc. Project #: 11H1248

Project Location: RTN:

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s): W0901-04

Matrices: Groundwater/Surface Water x Soil/Sediment Drinking Water Air Other:

CAM Protocol (check all that apply below):

8260 VOC CAM II A	7470/7471 Hg CAM III B	MassDEP VPH CAM IV A	8081 Pesticides CAM V B	7196 Hex Cr CAM VI B	MassDEP APH CAM IX A
8270 SVOC CAM II B	7010 Metals CAM III C	MassDEP EPH CAM IV B	8151 Herbicides CAM V C **x**	8330 Explosives CAM VIII A	TO-15 VOC CAM IX B
6010 Metals CAM III A	6020 Metals CAM III D	8082 PCB CAM V A	9014 Total Cyanide/PAC CAM VI A	6860 Perchlorate CAM VIII B	

Affirmative Responses to Questions A through F are required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	x Yes No
B	Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?	x Yes No
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	x Yes No
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"?	x Yes No
E	VPH, EPH, APH, and TO-15 only: a. VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications). b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?	Yes No Yes No
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?	x Yes No

Responses to Questions G, H and I below are required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	x Yes No[1]

Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.

H	Were **all** QC performance standards specified in the CAM protocol(s) achieved?	x Yes No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	x Yes No[1]

[1] ***All negative responses must be addressed in an attached laboratory narrative.***

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  **Position:** Laboratory Director

Printed Name: Richard Warila **Date**: 9/6/2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11H1248
Project Location: Readville Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11H1248-01 thru 11H1248-06

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A (X)	7470/7471 Hg CAM IIIB (X)	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B (X)	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B (X)	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C (X)	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]
	A response to questions G, H and I below is required for "Presumptive Certainty" status		
G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]
	<u>Data User Note:</u> Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.		
H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 09/13/11

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September 29, 2011

Jesse Maggs
Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752

Project Location: Readville Yard 5
Client Job Number:
Project Number: RY5
Laboratory Work Order Number: 11I0874

Enclosed are results of analyses for samples received by the laboratory on September 20, 2011. If you have any questions concerning this report, please feel free to contact me.

Sincerely,



James M. Georgantas
Project Manager

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

Millennium Environmental, Inc.
197M Boston Post Road West #318
Marlborough, MA 01752
ATTN: Jesse Maggs

REPORT DATE: 9/29/2011

PURCHASE ORDER NUMBER: RY5-001

PROJECT NUMBER: RY5

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 11I0874

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

PROJECT LOCATION: Readville Yard 5

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
RY5-S20-B (4)	11I0874-01	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-B (5)	11I0874-02	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-B (6)	11I0874-03	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-B (7)	11I0874-04	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-C (3)	11I0874-05	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-C (4)	11I0874-06	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-C (5)	11I0874-07	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-D (2)	11I0874-08	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-D (3)	11I0874-09	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-B (8)	11I0874-10	Soil		SW-846 1311	
				SW-846 6010C	
RY5-S20-B (9)	11I0874-11	Soil		SW-846 1311	
				SW-846 6010C	

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CASE NARRATIVE SUMMARY

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

For method 6010, only lead was requested and reported for all samples. Additionally, sample 11I0874-10 had Cd requested and reported.

SW-846 6010C

Qualifications:

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

Analyte & Samples(s) Qualified:

Lead

11I0874-10[RY5-S20-B (8)], B037952-MS1

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 individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Michael A. Erickson
Laboratory Director

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

Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-B (4) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-01

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	12	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 10:54	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-B (5) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-02

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.23	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 11:00	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-B (6) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-03

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.13	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 11:06	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-B (7) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-04

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.14	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 11:53	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-C (3) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-05

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	0.31	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 11:58	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-C (4) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-06

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	1.5	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 12:04	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-C (5) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-07

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3.1	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 12:10	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-D (2) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-08

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	3.4	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 12:16	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-D (3) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-09

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	4.6	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 12:21	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-B (8) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-10

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Cadmium	0.069	0.0040	mg/L	1		SW-846 6010C	9/26/11	9/27/11 10:34	OP
Lead	6.1	0.010	mg/L	1	MS-19	SW-846 6010C	9/26/11	9/27/11 10:34	OP

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Project Location: Readville Yard 5 | Sample Description: | Work Order: 11I0874

Date Received: 9/20/2011

Field Sample #: RY5-S20-B (9) | Sampled: 9/20/2011 00:00

Sample ID: 11I0874-11

Sample Matrix: Soil

TCLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Lead	7.3	0.010	mg/L	1		SW-846 6010C	9/26/11	9/27/11 12:44	OP

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Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6010C **Leachates were extracted on 9/25/2011 per SW-846 1311 in Batch B037925**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
11I0874-01 [RY5-S20-B (4)]	B037952	50.0	50.0	09/26/11
11I0874-02 [RY5-S20-B (5)]	B037952	50.0	50.0	09/26/11
11I0874-03 [RY5-S20-B (6)]	B037952	50.0	50.0	09/26/11
11I0874-04 [RY5-S20-B (7)]	B037952	50.0	50.0	09/26/11
11I0874-05 [RY5-S20-C (3)]	B037952	50.0	50.0	09/26/11
11I0874-06 [RY5-S20-C (4)]	B037952	50.0	50.0	09/26/11
11I0874-07 [RY5-S20-C (5)]	B037952	50.0	50.0	09/26/11
11I0874-08 [RY5-S20-D (2)]	B037952	50.0	50.0	09/26/11
11I0874-09 [RY5-S20-D (3)]	B037952	50.0	50.0	09/26/11
11I0874-10 [RY5-S20-B (8)]	B037952	50.0	50.0	09/26/11
11I0874-11 [RY5-S20-B (9)]	B037952	50.0	50.0	09/26/11

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QUALITY CONTROL

TCLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B037952 - SW-846 3010A											
Blank (B037952-BLK1)				Prepared: 09/26/11 Analyzed: 09/27/11							
Cadmium	ND	0.0040	mg/L								
Lead	ND	0.010	mg/L								
LCS (B037952-BS1)				Prepared: 09/26/11 Analyzed: 09/27/11							
Cadmium	0.575	0.0040	mg/L	0.500		115		80-120			
Lead	0.508	0.010	mg/L	0.500		102		80-120			
LCS Dup (B037952-BSD1)				Prepared: 09/26/11 Analyzed: 09/27/11							
Cadmium	0.569	0.0040	mg/L	0.500		114		80-120	0.968	20	
Lead	0.504	0.010	mg/L	0.500		101		80-120	0.837	20	
Matrix Spike (B037952-MS1)	**Source: 11I0874-10**			Prepared: 09/26/11 Analyzed: 09/27/11							
Cadmium	0.645	0.0040	mg/L	0.500	0.0688	115		75-125			
Lead	6.44	0.010	mg/L	0.500	6.12	**62.5**	*	75-125			MS-19

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

FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 6010C in Water	
Cadmium	NY,CT,ME,NC,NH
Lead	NY,CT,ME,NC,NH

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

Code	Description	Number	Expires
AIHA	American Industrial Hygiene Association	100033	01/1/2012
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2011
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2011
NC	North Carolina Div. of Water Quality	652	12/31/2011
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013

1I0874

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page 1 of 2

~~1I0617~~

Company Name: MILLENIUM ENVIRONMENTAL
Address: 197 M BOSTON POST RD W#318
MARLBOROUGH, MA 01752
Attention: JESSE MAGGS
Project Location: READVILLE YARD 5
Sampled By: JM

Telephone: (508)303-2000
Project #: RY5
Client PO#: RY5-001

DATA DELIVERY (check all that apply)
✓FAX ✓EMAIL OWEBSITE
Fax #: (508)303-0006
Email: JMAGGS@ATLANTICENO.COM
Format: ✓PDF ✓EXCEL OGIS
O OTHER
O "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	VOC	SVOC	RCRA 8 #	TPH 8100	PCBs	PEST / HERB	CONDUCTIVITY	CORROSIVITY	REACTIVITY	FLASH POINT
								1	2											
								M	-											
								V	A											
-01	RY5-S20-B(4)	9/20/11	12:50	X	V	S	U				X	X	X	X	X	X	X	X	X	X
-02	(5)																			
-03	(6)																			
-04	(7)																			
-05	C(3)																			
-06	(4)																			
-07	(5)																			
-08	D(2)		↓																	
-09	(3)		1:45																	
-10	SEE PAGE 2																			

ANALYSIS REQUESTED

Dissolved Metals
O Field Filtered
O 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 RUN TCLP ON METALS EXCEEDING 20X
& HEX CR IF RESULTS EXCEED 30 ppm

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:
	9/20/11 1:45
Received by: (signature)	Date/Time:
	9/20/11 1455
Relinquished by: (signature)	Date/Time:
	9/20/11 1930
Received by: (signature)	Date/Time:
	9/20/1930

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

Detection Limit Requirements
Massachusetts: RCS-1
Connecticut:
Other:

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

11I0697

39 SPRUCE ST, 2ND FLOOR
EAST LONGMEADOW, MA 01028

Company Name: SEE Pg 1
Address:
Telephone:( )
Project #
Client PO #
Attention:
Project Location:
Sampled By:

DATA DELIVERY (check one):
☐FAX ☐EMAIL ☐WEBSITE CLIENT
Fax # :
Email:
Format: ☐ EXCEL ☐ PDF ☐ GIS KEY ☐ OTHER

Proposal Provided? (For Billing purposes)
☐ yes ____ proposal date

State Form Required?
☐ yes ☐ no

Field ID	Sample Description	Lab #	Date Sampled Start Date/Time	Date Sampled Stop Date/Time	Composite	Grab	*Matrix Code	Conc. Code	# of containers: 1	**Preservation: M	~Cont.Code: V	VOC	SVOC	RCRA 8*	TPH 9080	PCBs	PEST | HERBS	Corrosivity	Reactivity	Flashpoint
	RY5-S20-B(8)	-11	9/20/11	1:45	X	V	S	M	2	-	A	X	X	X	X	X	X	X	X	X
	1 1 B(9)	-12	1	2:30	X	V	S	M	2	-	A	X	X	X	X	X	X	X	X	X

ANALYSIS REQUESTED

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

Client Comments:

Laboratory Comments: SAME AS PG. 1

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:	Received by: (signature)	Date/Time:
	9/20/11 2:45		
Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:
	9/20/11 1455		
Relinquished by: (signature)	Date/Time:	Received by: (signature)	Date/Time:
	9/20/11 1930		9/20 1930

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

Detection Limit Requirements
Regulations? RCS-1
Data Enhancement Project/RCP? ☐ Y ☐ N
Special Requirements or DL's:

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

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

** 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 IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

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Sample Receipt Checklist

CLIENT NAME: Millenium Environmental RECEIVED BY: SD DATE: 9/20/11

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 5.4

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:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	22
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below	11	PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol 11

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No (N/A) _____

Do all samples have the proper Base pH: Yes No (N/A) _____

Doc# 277

Rev. 1 May 2011

Jim Georgantas

From: Andrea Palpini [apalpini@contestlabs.com]
Sent: Friday, September 23, 2011 1:38 PM
To: James Georgantas
Subject: 11i0697 TCLP Reactivation

Due to 20x rule exceedance all samples need to be reactivated for TCLP Pb. Additionally sample 10 also needs Cd TCLP

Andrea M. Palpini
Metals Department Supervisor
Con-Test Analytical Laboratory
39 Spruce Street
East Longmeadow, MA 01028
Tel: (413) 525-2332 x56
Fax: (413) 525-6405
Email: apalpini@contestlabs.com

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 11I0874
Project Location: Readville Yard 5	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

11I0874-01 thru 11I0874-11

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A (X)	6020 Metals CAM III D ( )	8082 PCB CAM V A ( )	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☐ Yes	☑ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature:  Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 09/29/11