Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services

DATA REPORT

TO: Chris Black, U.S. EPA
Dave Favero, RACER TRUST
Grant Trigger, RACER TRUST

FROM: Steve Luzkow, Applied *Eco*Systems, Inc.
Mike Smith, Applied *Eco*Systems, Inc.

DATE: February 12, 2013

SUBJECT: RACER Flint West Industrial Land (#12990)
Summary of Additional Site Investigation

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ATTACHMENTS:

Attachment 1: Soil Boring Logs
Attachment 2: Monitoring Well Construction Logs
Attachment 3: Soil and Groundwater Analytical Tables
Attachment 4: Soil and Groundwater Analytical Data

G-4300 South Saginaw Street, Burton, Michigan 48529 Office (810) 715-2525 Fax (810) 715-2526

1.0 INTRODUCTION

Applied *Eco*Systems, Inc. (Æ) has completed the additional site investigations at the RACER Trust Flint West Industrial Land - #12990 site as outlined in the June 26, 2012, Data Report submitted to EPA. The Site consists of approximately five acres of land located west of Stevens Street and north of Glenwood Avenue in Flint, Genesee County, Michigan. The Site is developed with a Consumers Energy electrical substation in the central portion. Almost the entire exterior consists of concrete pavement, remaining after the demolition of a former manufacturing building. The site is secured with a chain-link fence and is locked.

2.0 INVESTIGATION ACTIVITIES COMPLETED

Site Background/Administrative Matters

- Completed research into the current ownership of the northern adjacent parcel. The ownership appears to be unrecorded and not documented, resulting in an "orphan" site.
- Attempted to coordinate site access to the northern adjacent property (a former rail line) for soil and groundwater investigations. The ownership of this property is not documented, and there is no parcel identification/description. Attempts to secure access permission from CN (a possible successor-in-interest of Grand Trunk RR, the previous operator) received no response.

Soil Borings/Sampling (Task 1 - Former Chrome Plater and AOC3 and Task 2 – Former TCE Degreaser Unit)

- Completed 14 soil borings and collected soil samples. (Boring logs are attached). Eight of the borings were completed as monitoring wells. The remaining borings were grouted with bentonite and patched with concrete. Soil samples were collected and analyzed. (Analytical Reports are attached – QA/QC and validation information are forthcoming)

Well Installation and Abandonment (Task 1 - Former Chrome Plater and AOC3 and Task 2 – Former TCE Degreaser Unit)

- Two 1-inch wells were abandoned. The casings were removed and the boreholes were over-drilled and grouted with bentonite. Eight monitoring wells were installed at depths ranging from approximately 20 feet to 25 feet below grade. Well logs are attached.

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Groundwater Monitoring (Task 6)

- Twelve wells were gauged. No NAPL was encountered.
- Twelve wells were sampled. MW-106 did not produce sufficient groundwater for sample analysis. MW-100S produced sufficient groundwater for only analysis of VOCs. Analytical results are attached. Data validation is in progress and will be included in subsequent reports.

3.0 INVESTIGATION RESULTS

Soils encountered generally consisted of sandy and silty clay in the upper 22 feet below grade, underlain by dry, grey clay. Shallow groundwater is present at approximately 17 feet below grade. The saturated zone is approximately five feet thick. Preliminary groundwater investigations completed in 2012 indicate a flow to the west/northwest towards the Flint River. Due to the dry, grey clay encountered below the saturated zone in each boring, it does not appear that a deep aquifer is at risk. Based on Æ's experience with sites in the area, the grey clay is expected to be continuous and sufficient to prevent vertical migration to a deep aquifer.

During the drilling process, soil samples (including those submitted for laboratory analysis) were screened in the field for volatile organic compounds (VOCs) using a calibrated photoionization detector (PID). The samples were placed in a sealed plastic bag and the tip of the PID was then inserted into the bag to obtain a reading of VOCs that had volatilized into the air headspace in the bag. The PID has a detection level of 1 part per million (ppm) VOCs. Readings obtained from the PID are generally used to assist in determining appropriate sampling depths/intervals. PID readings are included on the attached soil boring logs. Positive PID readings are summarized in the following table:

Photoionization Screening Results		
Boring	Intervals of Positive PID Readings	Range of PID readings
SB-111	13-20 ft.	0 to < 50ppm
SB-112	2 – 13 ft.	0 to 101 ppm
SB-113	2.5 – 6.5 ft.	0 to 91 ppm
SB-114	2 – 13 ft.	0 to 103ppm

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Comparison of soil and groundwater data to current Michigan Department of Environmental Quality (MDEQ) Generic Residential and Non-Residential Cleanup Criteria (GRCC) indicates limited VOCs, PNAs, and metals in soils and groundwater above only the drinking water and groundwater to surface water interface (GSI) criteria.

Because it is expected that the final corrective action will involve prohibiting groundwater use, at this stage, results are compared to the GSI criteria when considering future project direction. Samples exceeding the GSI criteria are as follows:

Soil (parts per billion)			
Analyte	**GSI Criterion**	**Max. Conc.**	**Location of Max. Conc.**
Mercury	130 (soil background)	327	SB-105
Trichloroethylene	4,000	5,980	SB-117
Naphthalene	730	840	SB-112
Groundwater (parts per billion)			
Arsenic	10	55	MW-103S
Copper	20	49	MW-110S
Mercury	0.1	0.4	MW-101S
Selenium	5	10	MW-105S
Vinyl Chloride	13	195	MW-111S

Sample analytical results (tabulated results and reports) are attached. Concentrations exceeding drinking water and GSI criteria are shown on Figure 1. Data validation information will be provided at a later date.

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4.0 PROPOSED ADDITIONAL INVESTIGATIONS

Proposed additional investigations are as follows:

1. Conduct five on-site soil borings, screen soils for VOC impact, and collect/analyze up to six soil and borehole water (at the water table and at the clay-sand interface) samples for VOCs in attempt to locate a possible source of the identified chlorinated solvent groundwater impact. One or two more borings may be advanced based on observations in the field.
2. Install a deeper monitoring well adjacent to MW-106, located at the east corner of the site in the area of the thickest sand formation encountered and a second deep well near MW-110. Install two downgradient wells on the north adjacent former "Chevy in the Hole" property to attempt to delineate the VOC plume.
3. Survey and gauge wells, determine groundwater flow characteristics (March through April, 2013).
4. Conduct gauging/sampling of the existing monitoring wells in April, 2013. The proposed analytical parameters for groundwater samples are:

   10 MDEQ metals (various methods), VOCs (EPA 8260), PNAs (EPA 8310 or 8270)

5.0 PROPOSED SCHEDULE:

Well gauging, survey, and groundwater flow data will be collected prior to the April, 2013 groundwater monitoring event.

The proposed additional soil borings and proposed additional wells will be installed before the April, 2013 groundwater monitoring event.

Field work for the spring 2013 groundwater monitoring event is expected to be completed in April, 2013 and a Data Report submitted in June, 2013. This report will include recommendations for any additional work.

The Human Health Environmental Indicator Report will be completed by July 1, 2013.

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FIGURES

Applied EcoSystems, Inc.
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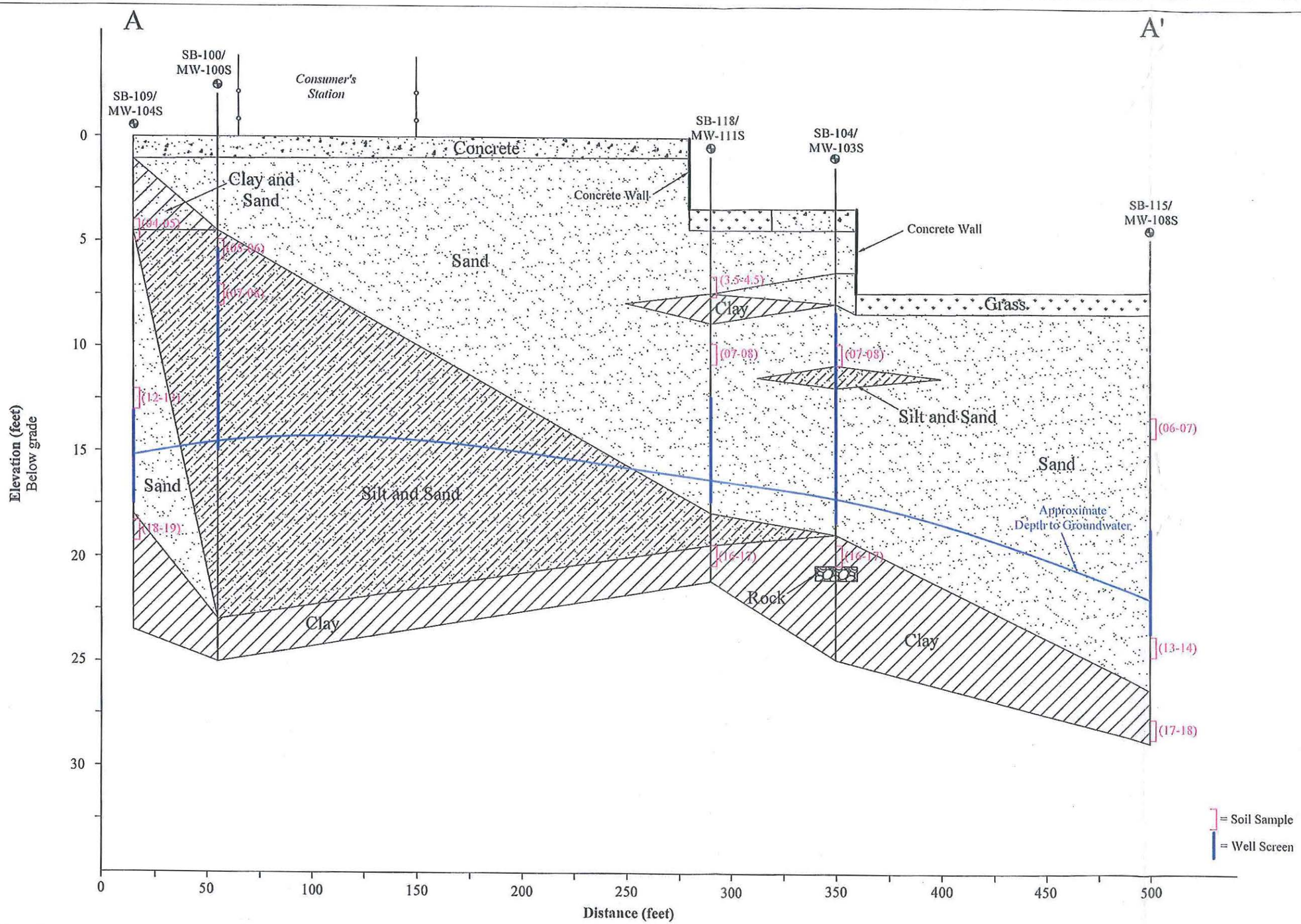

DATE:	SCALE:
2013	As Noted
PROJECT:	**FIGURE:**
11-4317	TBD

DRAFT - Cross Section Diagram

A - A'

Delphi - Flint West Facility
Former Building 9
Flint, Michigan
100-12990-0012

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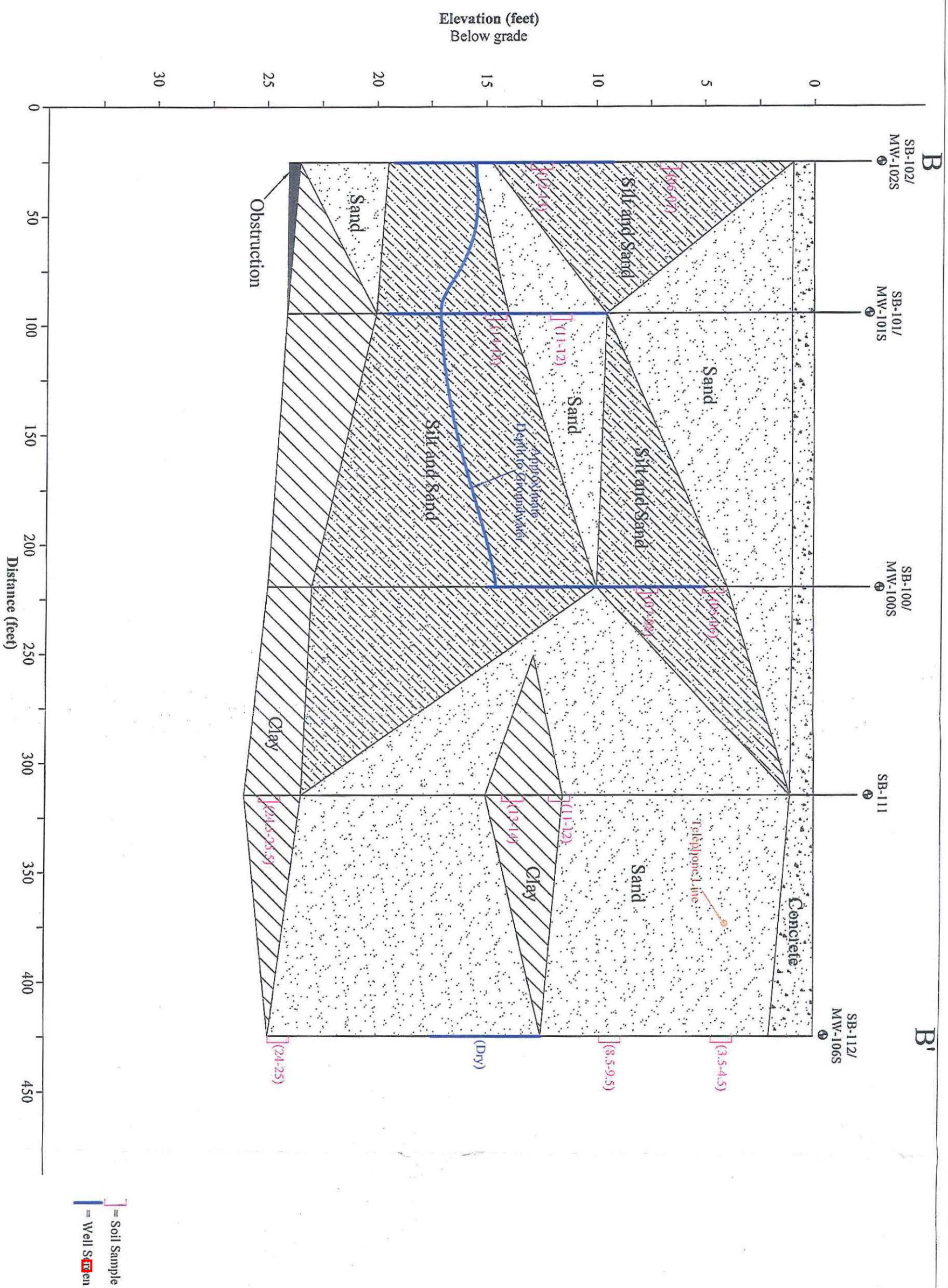
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: 810.715.2525; Fax: 810.715.2526



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G-4300 South Saginaw Street, Burton, Michigan 48529
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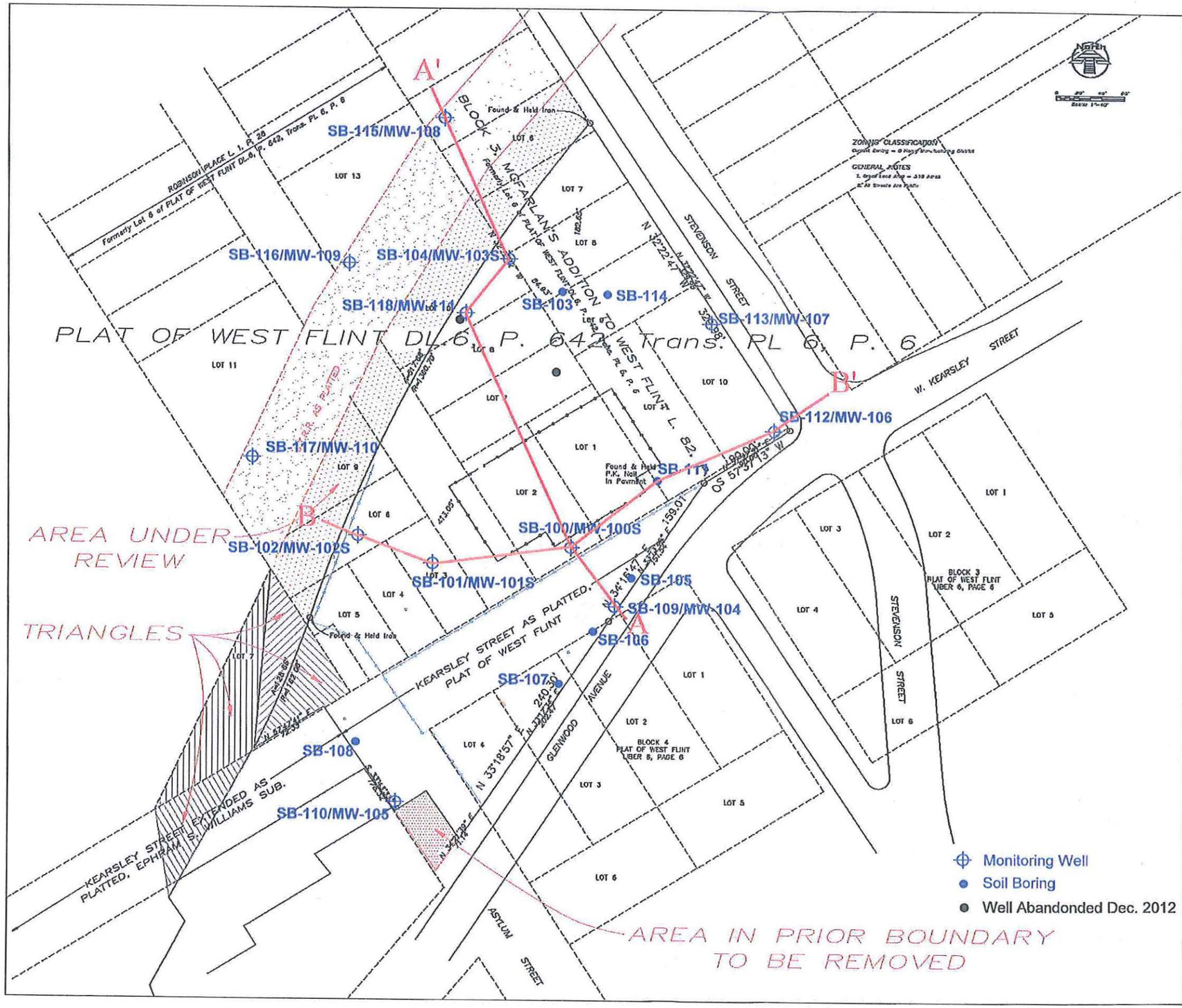
DRAFT - Cross Section Diagram
B - B'
Delphi - Flint West Facility
Former Building 9
Flint, Michigan
100-12990-0012

DATE:	SCALE:
2013	As Noted
PROJECT:	**FIGURE:**
11-4317	TBD

site map2.ufo



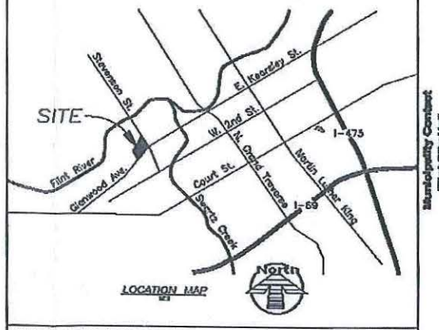
PARCEL DESCRIPTION

SITE ADDRESS: Consumers Energy Substation
Stevenson St. & Glenwood Ave.
Flint, MI

LEGAL DESCRIPTION AS PROVIDED:
Per Title Source, Inc. File #55395248, Title #11-03507226 Rev. 09/01/10

Parcel B (Tax ID #40-13-177-002): Lots 1, 2, 3, 4, 7, 8 and that part of Lots 5, 6, 9 and 10 lying Southeasterly of the Southerly Right-of-Way line of Grand Trunk Western railroad, including that portion of vacated Robinson Street adjacent to said lots, PLAT OF ROBINSON PLACE, according to the recorded plat thereof, as recorded in Plat Liber 1, Page 28, Genesee County Records. ALSO a contiguous part of Block 3, PLAT OF McFARLAN'S ADDITION TO WEST FLINT, according to the recorded plat thereof, as recorded in Deed Liber 82, Page 0, Genesee County Records, described as: Lots 8, 9, 10, 11 and part of Lots 6 and 7 lying Southeasterly of said Southerly Right-of-Way line of Grand Trunk Western Railroad, including the vacated East-West alleys lying adjacent to Lots 8, 9, 10 and 11. ALSO a contiguous part of Block 1, PLAT OF WEST FLINT, according to the recorded plat thereof, as recorded in Deed Liber 33, Page 642, and transcribed in Plat Liber 6, Page 6, Genesee County Records, described as: The Westerly 20 feet of the Southerly 60 feet of Lot 6, as originally platted, and that part of Lot 7 lying Southeasterly of said Southerly Right-of-Way line of Grand Trunk Western Railroad, EXCEPT a triangular portion of said Lot 7 lying on the Westerly side conveyed in Master Liber 4085, Page 299, Genesee County Records. ALSO a contiguous part of Lots 2, 3 and 4, Block 4, including part of vacated Asylum Street and Kearsley Street, PLAT OF WEST FLINT, according to the recorded plat thereof, as recorded in Deed Liber 33, Page 642, and transcribed in Plat Liber 6, Page 6, Genesee County Records, described as: Beginning at the Southeasterly corner of Lot 10 of said Block 3; thence Southeasterly along the Easterly line of said lot extended Southeasterly 30 feet; thence Southwesterly parallel to the Southerly line of said lot and its Southwesterly extension, 90 feet; thence Southeasterly to a point on the Southerly line of Kearsley Street, 78 feet, Southwesterly from its intersection with the Westerly line of Chase Street; thence Southwesterly to a point on the Easterly line of Asylum Street, 84 feet, Southeasterly from the Northwesterly corner of said Lot 4, as originally platted; thence Southwesterly to a point on the Westerly line of Asylum Street, 15 feet Northwesterly from its intersection with the Northwesterly line of Glenwood Avenue; thence Northwesterly along said Westerly line extended Northwesterly to the Northerly line of Kearsley Street, as originally platted; thence Northerly along said Northerly line to the Place of Beginning. EXCEPT that part of the Westerly ½ of Asylum Street lying Southeasterly of the following described line: Commencing at the intersection of the Westerly line of Asylum Street with the Northwesterly line of Glenwood Avenue; thence Northwesterly along said Westerly line of its Northwesterly extension, 80 feet for Place of Beginning; thence Easterly at right angles, a distance of 33 feet to the Place of Beginning.

Schedule B Exceptions:
13. Easement to Consumers Energy Company for substation recorded in Master Liber 4232, Page 256 (as to Parcel B).
14. Terms, conditions and provisions which are recited in easement recorded in Deed Liber 1978, Page 851 (as to Parcel B).
15. Easements to City of Flint for sewers and public utilities, and the terms, conditions and provisions contained therein, recorded in Deed Liber 391, Page 531, and Deed Liber 519, Page 287 (as to Parcel B).
16. Right of ingress and egress over that portion of vacated West Kearsley Street, extended for adjoining owners on the South side thereof, as evidenced by instrument dated July 26, 1913 and recorded in Deed Liber 209, Page 162 (as to Parcel B) – NOT MAPPABLE.
17. Reservation to easement in the vacated streets as evidenced by the instrument recorded in Deed Liber 389, Page 531; Deed Liber 391, Page 3; Deed Liber 461, Page 78; Deed Liber 1804, Page 554 (as to Parcel B).
18. Terms, conditions and provisions which are recited in unrecorded Easement Agreement between Grand Trunk Western Railroad, Inc. and General Motors Corp., dated April 17, 1998. – NOT MAPPABLE
19. Terms, conditions and provisions which are recited in unrecorded License Agreement, dated May 13, 1965 between Grand Trunk Western Railroad Co. and General Motors Corp. (Chevrolet-Flint Manufacturing Division). – NOT MAPPABLE
28. Easement to Consumers Energy Co. for electric lines recorded in Master Liber 4232, Page 248 (as to Parcel B).



NOT TO BE USED AS CONSTRUCTION DRAWINGS

SHEET INDEX
1. SITE PLAN/EXISTING CONDITIONS

SITE PLAN/EXISTING CONDITIONS
SHEET NO. 1
DATE 03/02/2012

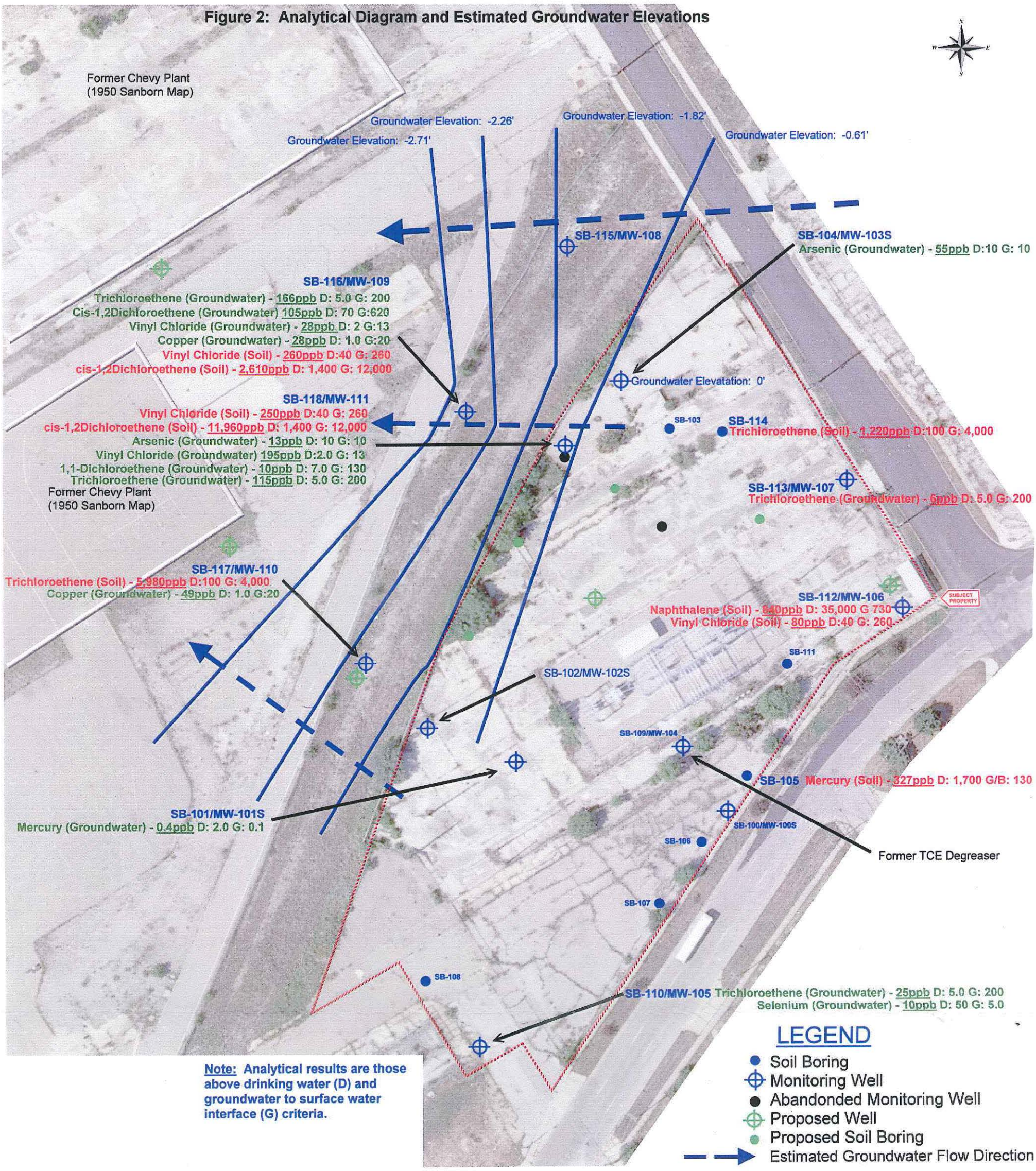
CLIENT INFORMATION
Applied EcoSystems
C/O:
Contact: Josh Adams
Cell: 989-
Bay City, MI 48706
(810) 715-2235

Field To Finish, Inc.
Land Surveying, Civil Engineering, Site and Land Planning
Professional Plaza, Flint, Michigan 48503
Phone: 810 232 0000 Fax: 810 232 0000
Fax: 810 232 0000
Fieldtofinish.com

Municipality Contact
Flint City Hall
Assessor's Office - Room 802A
1101 S. Saginaw Street, Flint, Michigan 48502
(810) 766-7235

Flint Water Study
Flint, Michigan
Site Plan/Existing Conditions
Sheet 1 of 1

Figure 2: Analytical Diagram and Estimated Groundwater Elevations



Note: Analytical results are those above drinking water (D) and groundwater to surface water interface (G) criteria.

SOIL BORING LOGS

Applied EcoSystems, Inc.

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Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-105 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Asphalt/Concrete			52/60	0.0
2	*GW* Asphalt/Gravel mix; dry; well sorted; black (5Y2.5/1)				0.0, 0.0, 0.0
4	*ML* Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)			52/60	0.0, 0.0, 0.0, 0.0
6 / 2			(07-08)		0.0, 0.0
8	*GP* Sand, medium to fine; trace silt; rounded; poorly sorted; dry; brown (2.5Y5/3)				0.0, 0.0
10			(10-11)	60/60	0.0
12 / 4	*CL* Silt and Clay, fine, trace sand; rapid dilatancy; medium stiff; dry; gray (5Y5/1)				0.0, 0.0, 0.0
14					

Drill Start: 13:03
Drill End: 14:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
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Log of Borehole: SB-105 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID) (0 10 20 30 40 50)
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; dry; gray (5Y5/1)			60/60	0.0
16	***GP*** Sand, fine; trace silt; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0
					0.0
18					0.0
					0.0
20 (6)				60/60	0.0
					0.0
22					0.0
	GP Sand, fine; trace silt; rounded; poorly sorted; saturated; gray (5Y5/1)				0.0
			(23-24)		0.0
24	***CL*** Clay, some silt; medium plasticity; dry; gray (5Y5/1)				0.0
	End of Log				
26 (8)					
28					

Drill Start: 13:03
Drill End: 14:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-105 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; dry; gray (5Y5/1)			60/60	0.0
16	***GP*** Sand, fine; trace silt; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0
					0.0
18					0.0
					0.0
20 (6)				60/60	0.0
					0.0
22					0.0
	GP Sand, fine; trace silt; rounded; poorly sorted; saturated; gray (5Y5/1)				0.0
	CL Clay, some silt; medium plasticity; dry; gray (5Y5/1)		(23-24)		0.0
24					0.0
	End of Log				
26 (8)					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 13:03
Drill End: 14:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-106 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Asphalt/Concrete	
		Void Void due to obstruction; concrete debris	
	2	*ML* Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)	
		MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; moist; brown (2.5Y5/3)	
		GP Sand, fine; trace silt; rounded; poorly sorted; dry; brown (2.5Y5/3)	
	4	*CL* Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)	

SAMPLE

Depth	Recovery (inch)
	12/60
	60/60
(08-09)	
	60/60
(13-14)	

Photoionization Detector (PID)

0 10 20 30 40 50

0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Drill Start: 14:13
Drill End: 15:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-106 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, medium to fine; trace silt; rounded; poorly sorted; dry; brown (2.5Y5/3)			60/60	0.0, 0.0
16	*GP* Sand, medium to fine; trace silt; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0, 0.0
18	*MH* Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; saturated; dry; gray (5Y5/1)				0.0, 0.0
20 (6)				60/60	0.0, 0.0
22					0.0, 0.0
24	*CL* Clay, some silt; medium plasticity; dry; gray (5Y5/1)		(24-25)		0.0, 0.0
	End of Log				
26 (8)					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 14:13
Drill End: 15:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-107 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete/Asphalt				0.0
	GW Asphalt/Gravel mix			52/60	0.0
2					0.0
	ML Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)				0.0
4					0.0
				48/60	0.0
6					0.0
2			(06-07)		0.0
	GP Sand, fine; rounded; poorly sorted; moist; brown (2.5Y5/3)				0.0
8					0.0
	CL Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)				0.0
10				60/60	0.0
12					0.0
					0.0
4			(13-14)		0.0
14					

Drill Start: 15:11
Drill End: 15:55
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

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G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-107 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
					0.0
	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; saturated; brown (2.5Y5/3)			108/60	0.0
16					0.0
			(17-18)		0.0
18	*CL* Clay, some silt; medium plasticity; dry; gray (5Y5/1)				0.0
					0.0
20 (6)					0.0
					0.0
22					0.0
24	End of Log				
26 (8)					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 15:11
Drill End: 15:55
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-108 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete/Asphalt				0.0
				36/60	
2	*GP* Sand, fine; rounded; poorly sorted; dry; brown; (2.5Y6/3) NOTE: Large pieces of brick were indicated from 7-8 feet below grade.				0.0
					0.0
4					0.0
					0.0
				36/60	
6					0.0
2			(06-07)		0.0
8					0.0
					0.0
10				48/60	0.0
					0.0
12					0.0
4					0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 16:10
Drill End: 16:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-108 (12/04/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/04/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification
	ML Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)	
16	***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)	
18	***CL*** Clay, some silt; medium plasticity; dry; gray (2.5Y5/2)	
20 (6)		
22	End of Log	
24		
26 (8)		
28		

SAMPLE

Depth	Recovery (inch)
(14-15)	84/60
(20-21)	

Photoionization Detector (PID)

0 10 20 30 40 50

0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Drill Start: 16:10
Drill End: 16:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-109 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete/Asphalt				0.0
	ML Clay and Sand, medium plasticity; dry; brown (2.5Y6/4)			100/60	0.0
2					0.0
					0.0
4			(04-05)		0.0
	GP Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; dry; brown (2.5Y6/4)				0.0
6 / 2					0.0
					0.0
8					0.0
					0.0
10				52/60	0.0
					0.0
12			(12-13)		0.0
4					0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 9:58
Drill End: 10:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-109 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; saturated; brown (2.5Y6/4)			120/60	0.0, 0.0, 0.0, 0.0
	CL Clay, some silt; trace sand; medium plasticity; dry; gray (2.5Y4/1)		(18-19)		0.0, 0.0, 0.0, 0.0, 0.0
	End of Log				

Depth scale: 16, 18, 20, 22, 24, 26, 28; 6, 8

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 9:58
Drill End: 10:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-110 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID) (0 10 20 30 40 50)
0 / 0	Ground Surface				
	Concrete/Asphalt				0.0
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)			36/60	0.0
2					0.0
					0.0
4					0.0
				36/60	0.0
6 / 2					0.0
					0.0
8					0.0
				48/60	0.0
10					0.0
					0.0
12			(12-13)		0.0
4	*CL* Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)				0.0
14					

Drill Start: 12:01
Drill End: 13:10
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
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G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-110 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, fine; rounded; poorly sorted; moist to saturated; brown (2.5Y5/3)				0.0
			(15-16)	60/60	0.0
16	*CL* Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)				0.0
	MH Silt and Sand, fine; rapid dilatancy; medium stiff; saturated; brown (2.5Y5/3)				0.0
18					0.0
					0.0
6					0.0
20				60/60	0.0
					0.0
22					0.0
					0.0
	CL Clay, some silt; some sand seams 6 inches thick in areas; medium plasticity; dry; gray (2.5Y5/1)				0.0
24			(24-25)		0.0
	End of Log				
26					
8					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 12:01
Drill End: 13:10
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-111 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete				0.0
				12/60	
2	*GP* Sand, medium to fine; rounded; poorly sorted; dry; brown (2.5Y5/3)				0.0
					0.0
4					0.0
					0.0
				48/60	
6 / 2					0.0
					0.0
8					0.0
					0.0
10	*GP* Sand, medium to fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)			60/60	0.0
	CL Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)		(11-12)		0.0
12					0.0
4			(13-14)		>50.0
14					

Drill Start: 14:48
Drill End: 16:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
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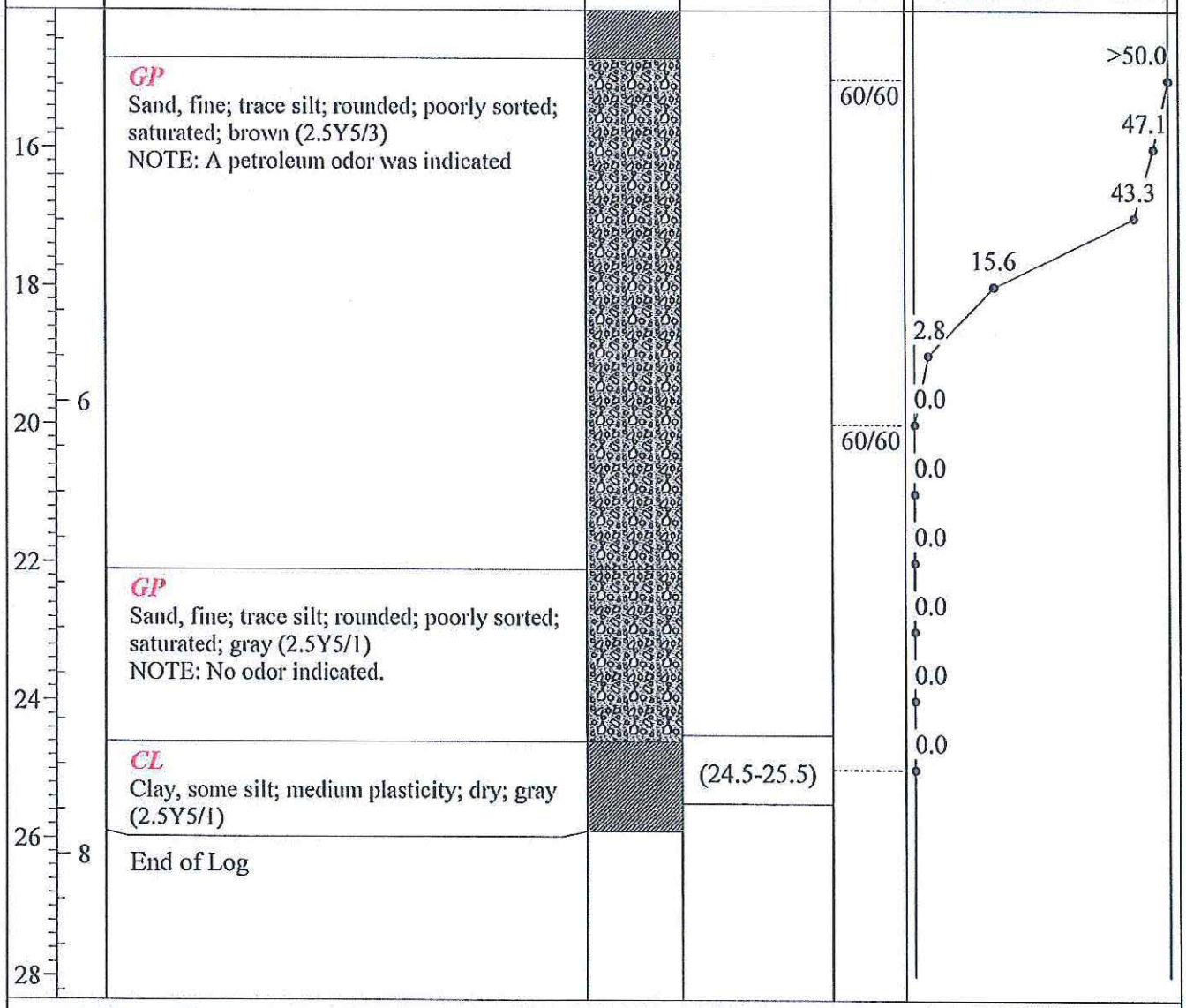
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-111 (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, fine; trace silt; rounded; poorly sorted; saturated; brown (2.5Y5/3) NOTE: A petroleum odor was indicated			60/60	
				60/60	
	GP Sand, fine; trace silt; rounded; poorly sorted; saturated; gray (2.5Y5/1) NOTE: No odor indicated.				
	CL Clay, some silt; medium plasticity; dry; gray (2.5Y5/1)		(24.5-25.5)		
	End of Log				



Drill Start: 14:48
Drill End: 16:02
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-112 (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE				SAMPLE		Photoionization Detector (PID)
Depth (ft)	Depth (m)	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50
0	0	Ground Surface				
		Concrete				0.0
					100/60	>50.0
2		*GP* Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)				>50.0
						>50.0
4		*GP* Sand, medium to fine; rounded; poorly sorted; dry; black (5Y2.5/1)		(3.5-4.5)		>50.0
		GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3) NOTE: A petroleum odor was indicated				>50.0
6	2					>50.0
						>50.0
8						>50.0
				(8.5-9.5)		>50.0
10		*GP* Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)			0/60	>50.0
						>50.0
12		*Void* Void; obstruction NOTE: Tubes came up empty of soil and full of water.				0.0
	4					0.0
14						

Drill Start: 11:26
Drill End: 12:27
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
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Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-112 (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
16					0.0
				0/60	0.0
18					0.0
					0.0
20 (6)					0.0
				12/60	0.0
22					0.0
					0.0
24	*GP* Sand, fine; rounded; trace gravel; poorly sorted; dry; gray (2.5Y5/1) NOTES: A petroleum odor was indicated.		(24-25)		0.0
26 (8)	Clay was not reached at the bottom of the boring due to obstructions and large amounts of water with odor. It was decided not to drill deeper in fear of penetrating a deeper aquifer.				
28	End of Log				

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 11:26
Drill End: 12:27
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-113 (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

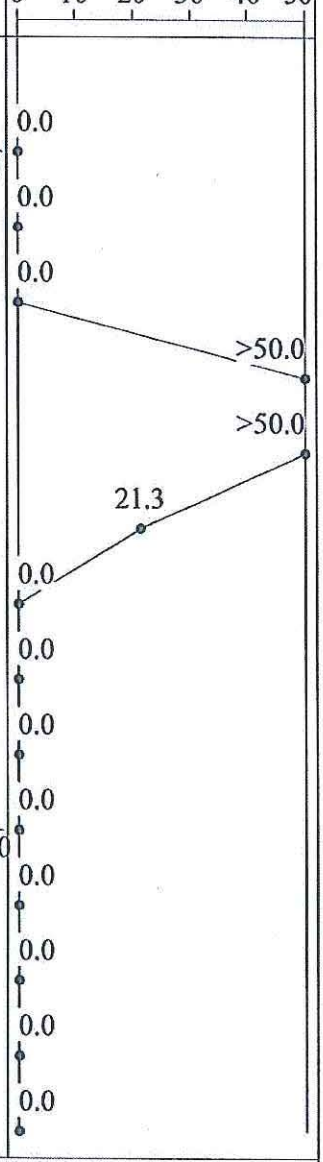
SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Concrete	
2		*GP* Sand, medium to coarse; rounded; poorly sorted; dry; gray (2.5Y5/1)	
4		*CL* Clay, some silt; medium plasticity; dry; gray (2.5Y5/1) NOTE: A petroluem odor was indicated.	
6	2	*Void* Void; no recovery due to an obstruction	
8			
10		*GP* Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3)	
12	4		
14			

SAMPLE

Depth	Recovery (inch)
	60/60
(04-06)	
	120/60
(10-11)	

Photoionization Detector (PID)



Drill Start: 14:56
Drill End: 16:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-113 (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50
16					0.0
					0.0
	GP Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0
18					0.0
					0.0
20 (6)				60/60	0.0
					0.0
22					0.0
	CL Clay, some silt; medium plasticity; dry; gray (2.5Y5/1)				0.0
24			(23-24)		0.0
	End of Log				0.0
26 (8)					
28					

Drill Start: 14:56
Drill End: 16:01
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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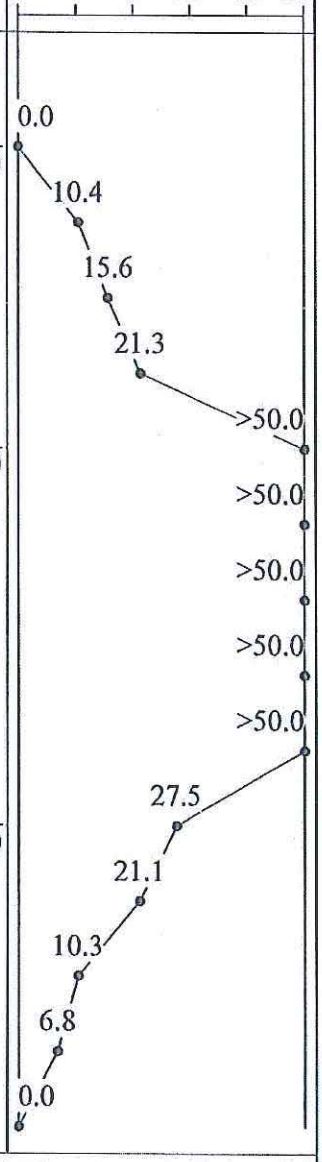
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-114 (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Concrete				
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; moist; brown (2.5Y5/3)			12/60	
2					
4					
	ML Clay and Sand, medium plasticity; dry; gray (5Y5/2)		(04-05)	52/60	
6 / 2					
	GP Sand, fine; rounded; poorly sorted; dry; gray (5Y4/1)		(07-08)		
8					
10				52/60	
12 / 4					
14					



Drill Start: 10:12
Drill End: 11:13
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-114 (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, fine; rounded; poorly sorted; moist; gray (5Y4/1)			96/60	
16	***GP*** Sand, fine; rounded; poorly sorted; saturated; gray (5Y4/1)				
18					
20 (6)	***CL*** Clay, some silt; medium plasticity; dry; gray (5Y4/1)		(20-21)		
22	End of Log				
24					
26 (8)					
28					

Photoionization Detector (PID) scale: 0, 10, 20, 30, 40, 50

PID readings: 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0, 0.0

Drill Start: 10:12
Drill End: 11:13
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-115 (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Topsoil				0.0
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; moist; brown (2.5Y5/3)			48/60	0.0
2					0.0
					0.0
4					0.0
				56/60	0.0
6 / 2			(06-07)		0.0
8	*GP* Sand, medium to fine; trace gravel and rock; rounded; poorly sorted; dry; brown (2.5Y5/3)				0.0
					0.0
10	*GP* Sand, some clay, medium to fine; rounded; poorly sorted; dry; gray (5Y4/1)			96/60	0.0
					0.0
12					0.0
4			(13-14)		0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 11:46
Drill End: 13:16
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

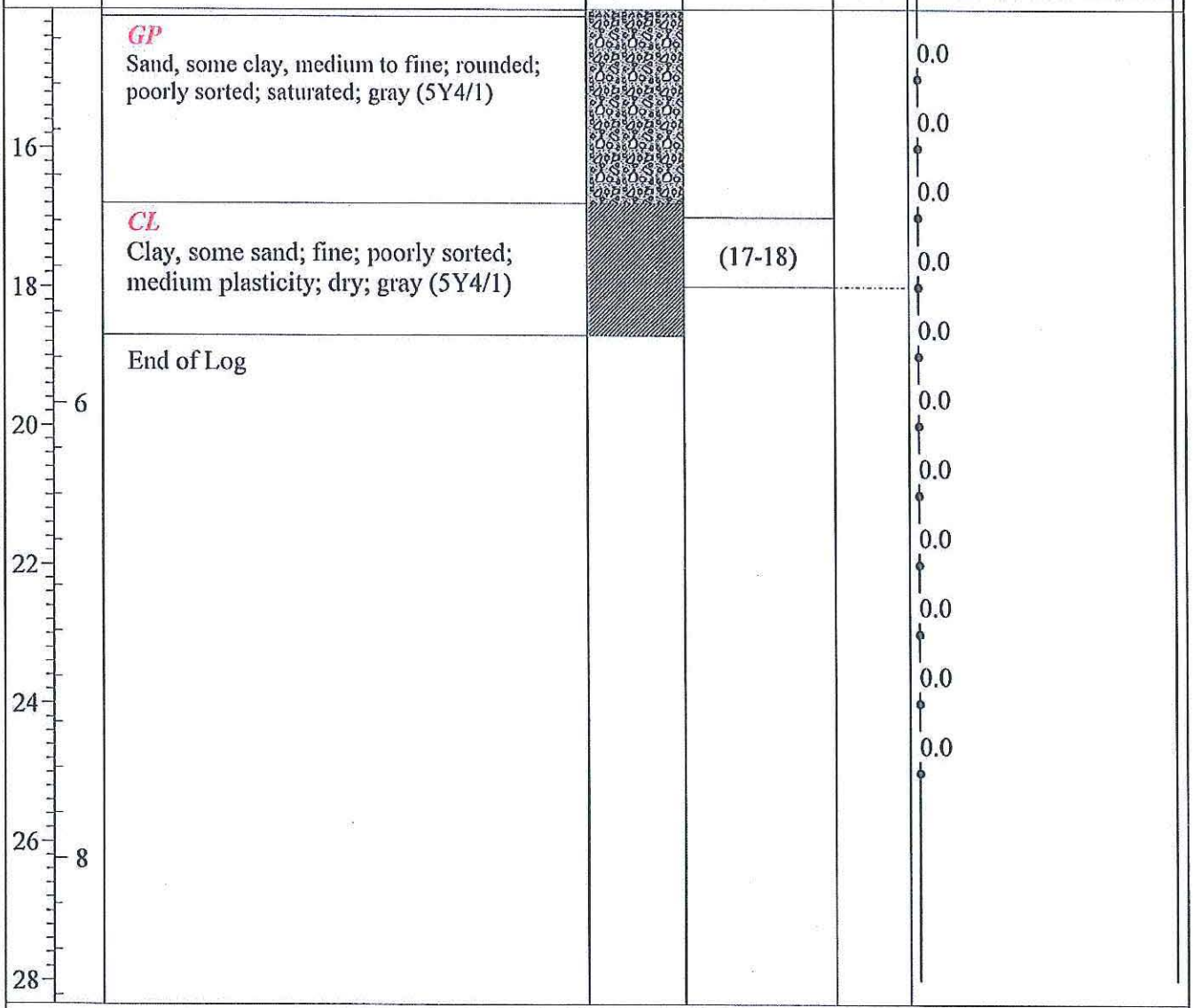
Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-115 (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	GP Sand, some clay, medium to fine; rounded; poorly sorted; saturated; gray (5Y4/1)				
	CL Clay, some sand; fine; poorly sorted; medium plasticity; dry; gray (5Y4/1)		(17-18)		
	End of Log				



Drill Start: 11:46
Drill End: 13:16
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
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G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-116 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID) (0 10 20 30 40 50)
0 / 0	Ground Surface				
	Topsoil				0.0
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)			48/60	0.0
2					0.0
	CL Clay, some silt and sand; fine; medium plasticity; rapid dilatancy; dry; brown (2.5Y5/4)		(04-05)		0.0
4					0.0
	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			52/60	0.0
6 / 2					0.0
	GP Sand, some clay, fine; rounded; poorly sorted; medium plasticity; dry; brown (2.5Y5/4)		(07-08)		0.0
8					0.0
	GP Sand, fine; rounded; poorly sorted; moist to saturated; brown (2.5Y5/4)				0.0

Drill Start: 9:42
Drill End: 10:25
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-116 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
				36/60	0.0
11	***MH*** Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)				0.0
	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1)				0.0
13 – 4			(12-13)		0.0
	Rock Obstruction; rock or bedrock				0.0
	End of Log				0.0
15					0.0
17					0.0
					0.0
19					0.0

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 9:42
Drill End: 10:25
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-117 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth (ft / m)	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
0 / 0	Ground Surface				
	Topsoil				
	GP Sand, fine; trace sand and gravel; rounded; poorly sorted; dry; black (5Y2.5/1)			48/60	0.0, 0.0, 0.0, 0.0, 0.0
				60/60	0.0
6 / 2	***CL*** Clay, some sand; fine; poorly sorted: dry; gray (5Y5/1)		(06-07)		0.0
	GP Sand, fine; rounded; poorly sorted; moist at 10 feet below grade; gray (5Y5/1)		(09-10)	60/60	0.0, 0.0, 0.0, 0.0, 0.0
12 / 4	***GP*** Sand, medium to fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)				0.0, 0.0, 0.0
14					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 10:31
Drill End: 11:31
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-117 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	MH Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			60/60	0.0, 0.0, 0.0, 0.0
	CL Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)		(18-19)		0.0, 0.0
6	***Rock*** Obstruction; rock or bedrock				0.0
	End of Log				0.0, 0.0, 0.0, 0.0, 0.0
8					

Depth scale: 16, 18, 20, 22, 24, 26, 28

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 10:31
Drill End: 11:31
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-118 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Topsoil with some gravel	
		GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)	
2			
4		*CL* Clay, some sand; medium plasticity; fine; poorly sorted; dry; brown (2.5Y5/4)	
		GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)	
6	2		
8			
10		*GP* Sand, fine; rounded; poorly sorted; moist; brown (2.5Y5/4)	
		GP Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)	
12	4		
14			

SAMPLE

Depth	Recovery (inch)
	48/60
(3.5-4.5)	
	52/60
(07-08)	
	60/60

Photoionization Detector (PID)

0 10 20 30 40 50

0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

Drill Start: 15:20
Drill End: 16:15
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: SB-118 (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		
Depth	Description	USCS Classification	Depth	Recovery (inch)	Photoionization Detector (PID)
	MH Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			60/60	0.0
16	*CL* Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)		(16-17)		0.0
					0.0
18	End of Log				0.0
					0.0
20 (6)					0.0
					0.0
22					0.0
					0.0
24					0.0
					0.0
26 (8)					
28					

Photoionization Detector (PID) scale: 0 10 20 30 40 50

Drill Start: 15:20
Drill End: 16:15
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

MONITORING WELL
CONSTRUCTION LOGS

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

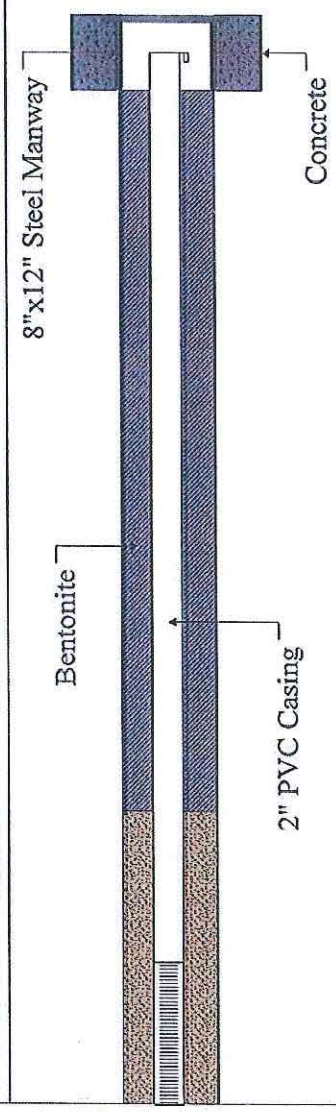
Log of Borehole: MW-104S (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)
0	0	Ground Surface		
		Concrete/Asphalt		
2		*ML* Clay and Sand, medium plasticity; dry; brown (2.5Y6/4)		
4				
6	2	*GP* Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; dry; brown (2.5Y6/4)		
8				
10				
12	4			
14				

Well Completion Details



Drill Start: 10:52
Drill End: 11:48
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-104S (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
16	***GP*** Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; saturated; brown (2.5Y6/4)			Filter Sand; 5' Stainless Steel Screen
18	***CL*** Clay, some silt; trace sand; medium plasticity; dry; gray (2.5Y4/1)			
20 (6)				
22				
24	End of Log			
26 (8)				
28				

Drill Start: 10:52
Drill End: 11:48
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-105S (12/05/2012)

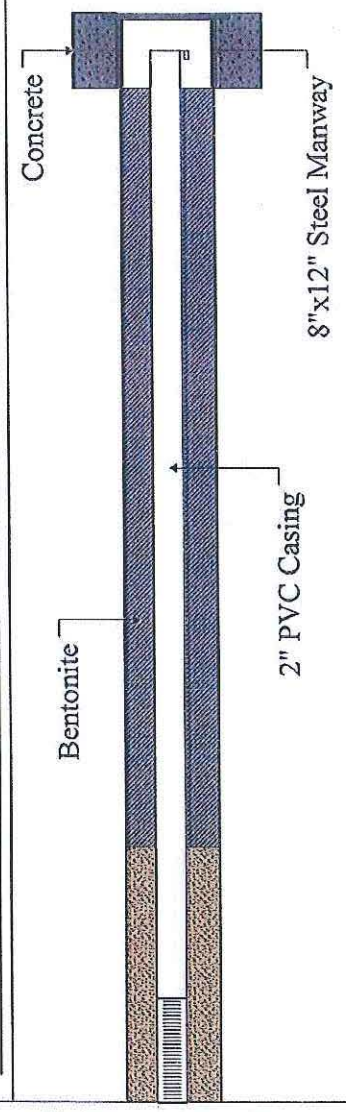
Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Concrete/Asphalt	
		GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)	
2			
4			
6	2		
8			
10			
12		*CL* Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)	
14	4		

Photoionization Detector (PID): 0 10 20 30 40 50

Well Completion Details



Drill Start: 13:11
Drill End: 14:33
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-105S (12/05/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/05/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
	GP Sand, fine; rounded; poorly sorted; moist to saturated; brown (2.5Y5/3)			
16	***CL*** Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)			
18	***MH*** Silt and Sand, fine; rapid dilatancy; medium stiff; saturated; brown (2.5Y5/3)			Filter Sand; 5' Stainless Steel Screen
20 (6)				
22				
24	***CL*** Clay, some silt; some sand seams 6 inches thick in areas; medium plasticity; dry; gray (2.5Y5/1)			
26 (8)	End of Log			
28				

Drill Start: 13:11
Drill End: 14:33
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

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Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

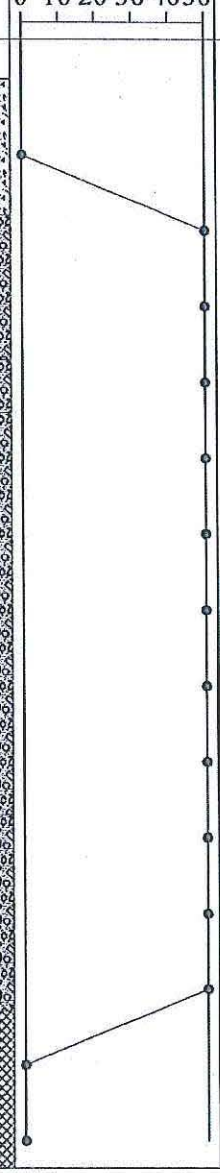
Log of Borehole: MW-106S (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

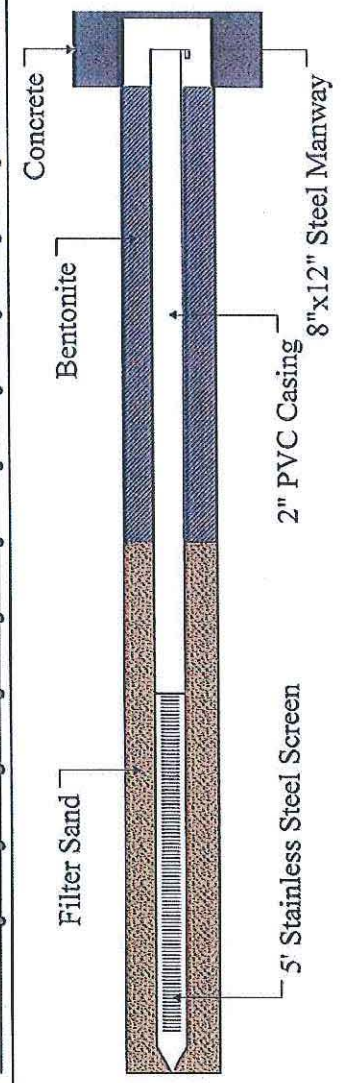
SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Concrete	
2		*GP* Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)	
4		*GP* Sand, medium to fine; rounded; poorly sorted; dry; black (5Y2.5/1)	
6	2	*GP* Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3) NOTE: A petroleum odor was indicated	
8			
10		*GP* Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)	
12	4	*Void* Void; obstruction NOTE: Tubes came up empty of soil and full of water.	
14			

Photoionization Detector (PID)



Well Completion Details



Drill Start: 12:29
Drill End: 14:17
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-106S (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
16				
18				
20 (6)				
22				
24	***GP*** Sand, fine; rounded; trace gravel; poorly sorted; dry; gray (2.5Y5/1) NOTES: A petroleum odor was indicated. Clay was not reached at the bottom of the boring due to obstructions and large amounts of water with odor. It was decided not to drill deeper in fear of penetrating a deeper aquifer.			
26 (8)				
28	End of Log			

Drill Start: 12:29
Drill End: 14:17
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

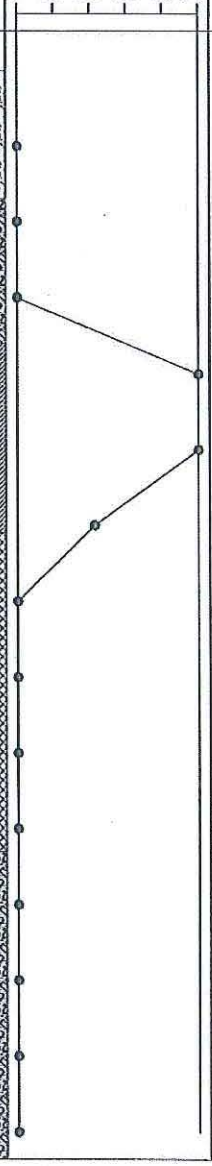
Log of Borehole: MW-107S (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

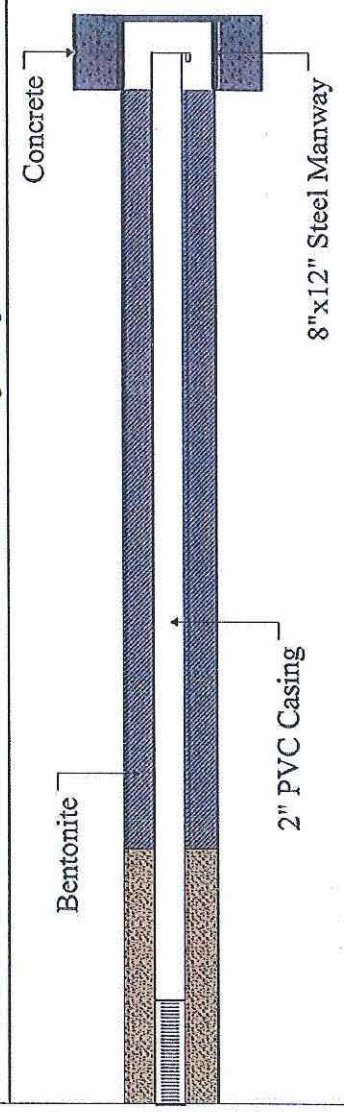
SUBSURFACE PROFILE

Depth (ft)	Depth (m)	Description	USCS Classification
0	0	Ground Surface	
		Concrete	
2		*GP* Sand, medium to coarse; rounded; poorly sorted; dry; gray (2.5Y5/1)	
4		*CL* Clay, some silt; medium plasticity; dry; gray (2.5Y5/1) NOTE: A petroluem odor was indicated.	
6	2	*Void* Void; no recovery due to an obstruction	
8			
10		*GP* Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/3)	
12	4		
14			

Photoionization Detector (PID)



Well Completion Details



Drill Start: 16:02
Drill End: 17:16
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-107S (12/06/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/06/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
16				Filter Sand; 5' Stainless Steel Screen
18	***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)			
20 (6)				
22	***CL*** Clay, some silt; medium plasticity; dry; gray (2.5Y5/1)			
24	End of Log			
26 (8)				
28				

Drill Start: 16:02
Drill End: 17:16
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

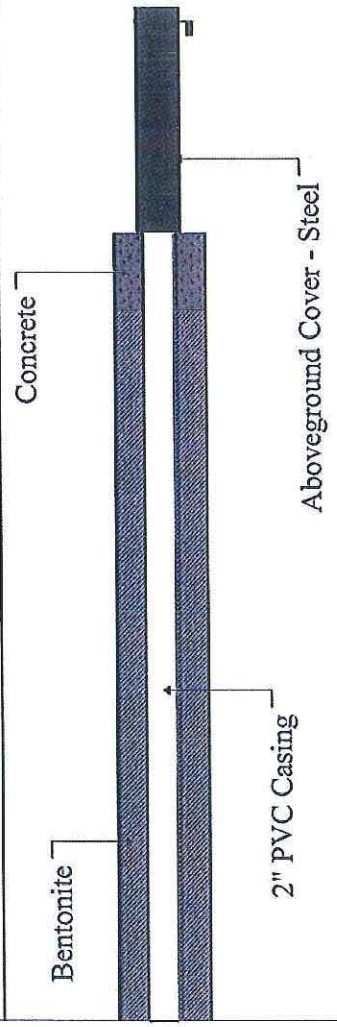
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-108S (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
ft: -4, -2, 0, 2, 4, 6, 8, 10 / m: 1, 3	Ground Surface			
	Topsoil			
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; moist; brown (2.5Y5/3)			
	GP Sand, medium to fine; trace gravel and rock; rounded; poorly sorted; dry; brown (2.5Y5/3)			



Drill Start: 13:18
Drill End: 15:33
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

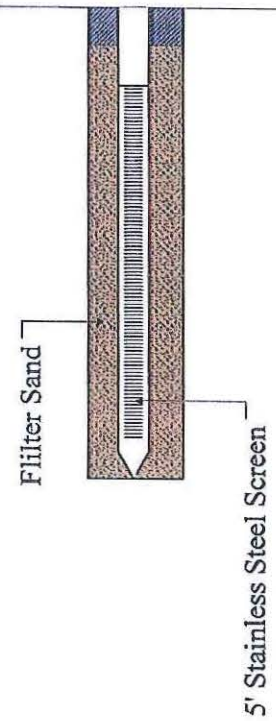
Log of Borehole: MW-108S (12/10/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/10/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)
	GP Sand, some clay, medium to fine; rounded; poorly sorted; dry; gray (5Y4/1)		
12			
14	***GP*** Sand, some clay, medium to fine; rounded; poorly sorted; saturated; gray (5Y4/1)		
16			
5	***CL*** Clay, some sand; fine; poorly sorted; medium plasticity; dry; gray (5Y4/1)		
18			
	End of Log		
20			
22			
7			
24			

Well Completion Details



Drill Start: 13:18
Drill End: 15:33
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

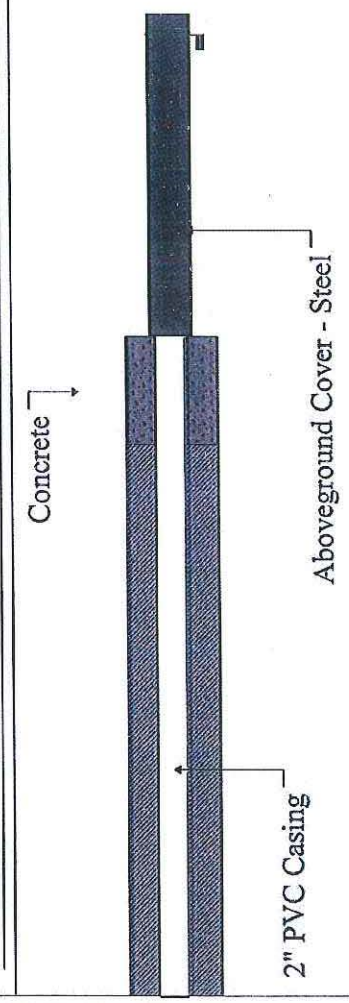
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-109S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
	Ground Surface			
0	***Topsoil***			
2	***GP*** Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; brown (2.5Y5/3)			
4 (1 m)	***CL*** Clay, some silt and sand; fine; medium plasticity; rapid dilatancy; dry; brown (2.5Y5/4)			
	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			



Drill Start: 12:28
Drill End: 13:19
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-109S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
7				Bentonite
	GP Sand, some clay, fine; rounded; poorly sorted; medium plasticity; dry; brown (2.5Y5/4)			
9	***GP*** Sand, fine; rounded; poorly sorted; moist to saturated; brown (2.5Y5/4)			
3				
11	***MH*** Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			Filter Sand
	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1)			
13				5" Stainless Steel Screen
	Rock Obstruction; rock or bedrock			
	End of Log			
15				

Drill Start: 12:28
Drill End: 13:19
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

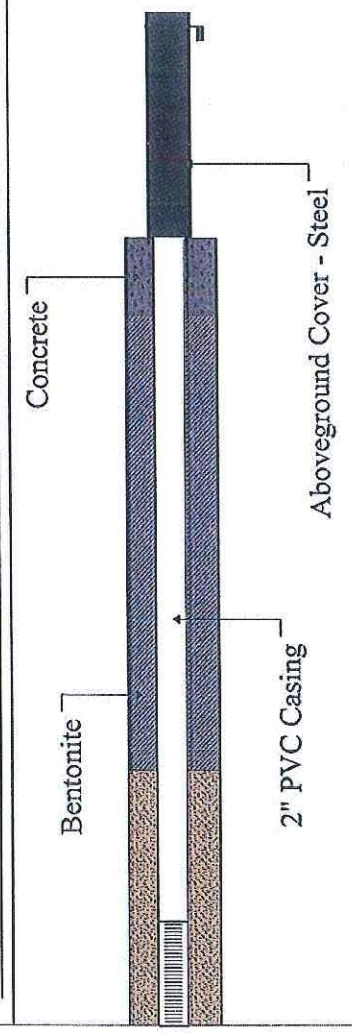
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-110S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
ft: -4, -2, 0, 2, 4, 6, 8, 10; m: 1, 3	Ground Surface			
	Topsoil			
	GP Sand, fine; trace sand and gravel; rounded; poorly sorted; dry; black (5Y2.5/1)			
	CL Clay, some sand; fine; poorly sorted: dry; gray (5Y5/1)			
	GP Sand, fine; rounded; poorly sorted; moist at 10 feet below grade; gray (5Y5/1)			



Drill Start: 11:32
Drill End: 12:22
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-110S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
12	***GP*** Sand, medium to fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)			Filter Sand; 5' Stainless Steel Screen
14	***MH*** Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			
16	5			
18	***CL*** Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)			
20	***Rock*** Obstruction; rock or bedrock			
	End of Log			
22				
	7			
24				

Drill Start: 11:32
Drill End: 12:22
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

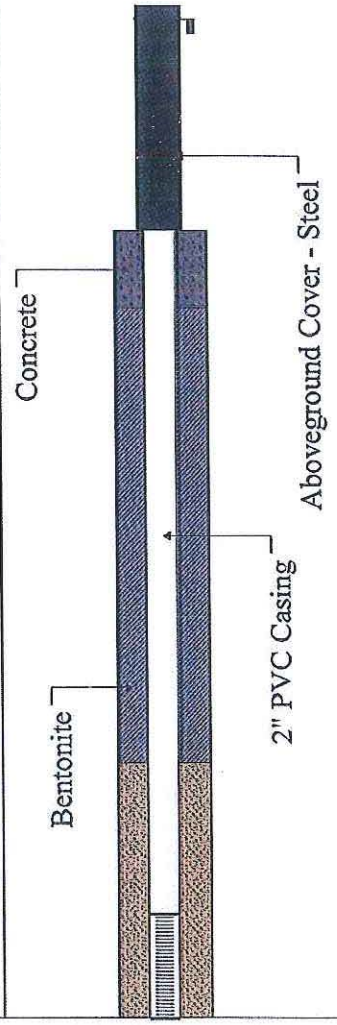
Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-111S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth (ft / m)	Description	USCS Classification	Photoionization Detector (PID) (0 10 20 30 40 50)	Well Completion Details
ft: -4, -2, 0, 2, 4, 6, 8, 10 / m: 1, 3	Ground Surface			
	Topsoil with some gravel			
	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			
	CL Clay, some sand; medium plasticity; fine; poorly sorted; dry; brown (2.5Y5/4)			
	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			



Drill Start: 16:16
Drill End: 17:19
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2

Applied *Eco*Systems, Inc.
Environmental Management, Consulting & Field Services
G-4300 South Saginaw Street, Burton, Michigan 48529
Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: MW-111S (12/11/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 12/11/2012

SUBSURFACE PROFILE

Depth	Description	USCS Classification	Photoionization Detector (PID) 0 10 20 30 40 50	Well Completion Details
	GP Sand, fine; rounded; poorly sorted; moist; brown (2.5Y5/4)			
12	***GP*** Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)			Filter Sand; 5' Stainless Steel Screen
14	***MH*** Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			
16 – 5	***CL*** Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)			
18	End of Log			
20				
22 – 7				
24				

Drill Start: 16:16
Drill End: 17:19
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4-inch ID

Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 2 of 2

TABLES

Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

GROUNDWATER ANALYTICAL DATA
RACER - Flint West #12990

Sample ID			MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2
Date Collected			12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12
ANALYTE (mg/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	0.01	0.01	DRY		0.0020	0.055			DRY			0.003	0.004	0.013	0.055	0.015
Barium	2	1.2 G	DRY	0.279	0.0840	0.586	0.065	0.054	DRY	0.118	0.101	0.109	0.308	0.077	0.602	0.074
Cadmium	0.005	0.004 G	DRY	0.0018					DRY			0.0008	0.0003	0.0002		
Chromium	0.01	0.16 G	DRY		0.0100				DRY			0.006	0.0040	0.004		0.002
Chromium VI	0.01	0.011	DRY						DRY							
Copper	1	0.02 G	DRY		0.0050			0.002	DRY		0.003	0.028	0.049	0.005		0.003
Lead	0.004	0.028 G	DRY		0.0020				DRY		0.002	0.02	0.016	0.003		0.002
Mercury	0.002	0.0001	DRY	0.0004					DRY			0.000049	0.000037			
Selenium	0.05	0.005	DRY		0.0030		0.003	0.010	DRY							
Silver	0.034	0.0002	DRY						DRY							
Zinc	2.4	0.26 G	DRY	0.021	0.0120	0.002	0.002	0.005	DRY	0.003	0.008	0.047	0.047	0.014	0.002	0.006

Sample ID			MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2
Date Collected			12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12
ANALYTE (ug/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
PNAs	varies	varies	DRY	ND	ND	ND	ND	ND	DRY	ND	ND	ND	ND	ND	ND	ND

Sample ID			MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106S	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2	Trip Blank	Field Blank
Date Collected			12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12	12/13/12
ANALYTE (ug/L)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	730	1,700		0.072		3.2			DRY				2.71		1.67			
Carbon disulfide	800	NC							DRY				0.58				0.86	5
2 Butanone (MEK)	13,000	2,200							DRY				0.37		0.66			3.1
Chloromethane	260	NC							DRY									0.46
Vinyl Chloride	2.0	13				0.96			DRY	1		28		195	0.80	188		
Chloroethane	430	1,100							DRY					1.26				
1,1-Dichloroethene	7.0	130							DRY	0.18		5		10		0.97		
Methylene Chloride	5.0	1,500							DRY								0.080	0.090
trans-1,2-Dichloroethene	100	1,500							DRY		0.130	1.95		2		2		
1,1-Dichloroethane	880	740							DRY	0.950		4		5		10		
cis-1,2-Dichloroethene	70	620	0.077			0.170	0.340		DRY	6	2	105		69		71		
Tetrahydrofuran	95	11,000	1.04		0.99	0.97	1.06	0.96	DRY	1.00	1.25	8.2		1.12		1.23	31.37	108
Chloroform	80	350	0.140	1			0.500		DRY		6			0.530		0.550		
1,1,1-Trichloroethane	200	89							DRY					0.470		0.460		
Carbontetrachloride	5.0	45						0.15	DRY		3							
Benzene	5.0	200		0.30		0.210			DRY	0.100				0.17	0.21	0.150		
Trichloroethene	5.0	200	4	5	0.68	0.17	0.85	25	DRY	6		166	0.30	115		116		
Toluene	790	270	0.190	0.67	0.120	0.110			DRY					0.100			0.160	0.120
Tetrachloroethene	5.0	60		0.27					DRY					0.140		0.140		
Chlorobenzene	100	25				0.080			DRY									
Total Xylenes	280	41				0.28			DRY									
1,2,4-Trimethylbenzene	63	17					0.14		DRY									
1,2,3-Trimethylbenzene	NC	NC					0.140		DRY						0.130			
Naphthalene	520	11	0.090						DRY									
2-Methylnaphthalene	260	19			0.110		0.250		DRY		0.07			0.040	0.23			

NOTES:

	Exceeds one or more criteria
G	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
	Blank cells indicate no detectable concentrations
1.00	Compound also found in associated method blank, suggesting a laboratory artifact.
NC	Insufficient data to develop criterion/no criterion

SOIL ANALYTICAL DATA - METALS
RACER - Flint West #12990

					Sample ID	SB-105	SB-105	SB-105	SB-106	SB-106	SB-106	SB-107	SB-107	SB-107	SB-108	SB-108	SB-108	SB-109	SB-109	SB-109
					Date Collected	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/5/12	12/5/12	12/5/12
					Depth (ft)	7-8	10-11	23-25	8-9	13-14	24-25	6-7	13-14	17-18	6-7	14-15	20-21	4-5	12-13	18-19
ANALYTE (ug/kg)	CAS #	DW	GSI	B	RL	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	7440-38-2	5,800	5,800	5,800	200	810	1,220	1,340	950	1,000	1,680	1,630	1,060	1,950	1,070	1,510	1,440	1,510	540	1,770
Barium	7440-39-3	1.3 E+6	7.8 E+5 G	75,000	1,000	22,400	21,700	30,400	37,400	42,000	26,300	38,200	52,700	25,000	9,010	40,200	55,500	60,600	2,750	20,300
Cadmium	7440-43-9	6,000	5,400 G	1,200	200		140	210		150	250		190	170	110		210	210		170
Chromium	7440-47-3	1.0 E+9	4.6 E+9 G	18,000	500	1,510	2,860	4,740	2,110	3,350	3,920	2,250	5,180	3,260	1,640	2,830	4,610	3,670	470	3,250
Chromium VI	18540-29-9	30,000	3,300	NA	1															
Copper	7440-50-8	5.8 E+6	1.2 E+5	32,000	500	3,810	8,030	14,300	2,670	5,530	11,900	3,390	9,060	10,100	1,480	4,720	9,140	6,370	940	10,500
Lead	7439-92-1	7.0 E+5	5.0 E+6 G	21,000	300	8,500	32,900	8,750	5,160	6,600	8,060	5,550	7,500	7,800	3,170	5,090	8,450	6,710	900	7,390
Mercury	7439-97-6	1,700	50	130	50	20	327	20	30	10	20	20	20	10	10	20	20	10	1	20
Selenium	7782-49-2	4,000	400	410	400															
Silver	7440-22-4	4,500	100	1,000	100		170													
Zinc	7440-66-6	2.4 E+6	2.6 E+5G	47,000	1,000	6,340	44,000	26,200	6,410	15,000	32,600	9,940	21,700	22,400	4,480	11,500	22,300	18,000	2,110	21,500

					Sample ID	SB-110	SB-110	SB-110	SB-111	SB-111	SB-111	SB-112	SB-112	SB-112	SB-113	SB-113	SB-113	DUP 1	DUP 2	DUP 3
					Date Collected	12/5/12	12/5/12	12/5/12	12/5/12	12/5/12	12/5/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/4/12	12/4/12	12/5/12
					Depth (ft)	12-13	15-16	24-25	11-12	13-14	24.5-25.5	3.5-4.5	8.5-9.5	24-25	4-6	10-11	23-24			
ANALYTE (ug/kg)	CAS #	DW	GSI	B	RL	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	7440-38-2	5,800	5,800	5,800	200	1,650	1,380	1,660	2130	1,330	2,330	1,240	1,090	1,030	520	580	1,820	1,470	830	1,070
Barium	7440-39-3	1.3 E+6	7.8 E+5 G	75,000	1,000	30,700	42,400	20,400	47,200	27,100	6,230	22,400	8,320	23,600	21,000	5,960	5,777	25,000	7,320	35,100
Cadmium	7440-43-9	6,000	5,400 G	1,200	200	130	180	200	150	220		120		120				180		140
Chromium	7440-47-3	1.0 E+9	4.6 E+9 G	18,000	500	2,340	3,490	4,320	5,160	3,910	1,120	3,640	730	14,500	1,940	550	970	2,650	1,820	3,630
Chromium VI	18540-29-9	30,000	3,300	NA	1															
Copper	7440-50-8	5.8 E+6	1.2 E+5	32,000	500	3,570	7,200	12,600	6,120	11,100	4,880	5,920	1,700	8,460	6,960	730	3,740	8,880	1,400	6,470
Lead	7439-92-1	7.0 E+5	5.0 E+6 G	21,000	300	4,780	7,110	8,380	6,790	7,410	3,520	3,880	1,940	3,850	5,820	1,080	2,310	6,550	2,050	6,220
Mercury	7439-97-6	1,700	50	130	50	10	20	20	20	20	10	40	10	20	10	2	5	20	10	20
Selenium	7782-49-2	4,000	400	410	400															
Silver	7440-22-4	4,500	100	1,000	100															
Zinc	7440-66-6	2.4 E+6	2.6 E+5G	47,000	1,000	10,300	17,600	25,800	15,900	2,360	11,000	8,150	3,960	10,400	8,910	2,030	9,360	18,600	3,070	12,900

NOTES:

	Exceeds one or more criteria
G	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
	Blank cells indicate no detectable concentrations

SOIL ANALYTICAL DATA - DETECTED VOCs
RACER - Flint West #12990

		Sample ID	SB-114	SB-114	SB-114	SB-115	SB-115	SB-115	SB-116	SB-116	SB-116	SB-117	SB-117	SB-117	SB-118	SB-118	SB-118
		Date Collected	12/10/12	12/10/12	12/10/12	12/10/12	12/10/12	12/10/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12
		Depth (ft)	4-5	7-8	20-21	6-7	13-14	17-18	4-5	7-8	12-13	6-7	9-10	18-19	3.5-4.5	7-8	16-17
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000	130	135	152	139	91	121	191	119	161	138	220	119	102	72	
2 Butanone (MEK)	2.6 E+5	44,000	79	123	126	122	89	98	135	86	134	113	113	81	67	59	78
Chloromethane	5,200	NC	144	155	179	174	133	128	176	127	167	145	168	158	127	111	155
Vinyl Chloride	40	260									260						250
1,1-Dichloroethene	140	2,600															110
Methylene Chloride	100	30,000	13	15	16	18	13.3	13	16	10.8	16	14	14	15	11	11.5	12
trans-1,2-Dichloroethene	2,000	30,000									27						200
1,1-Dichloroethane	18,000	15,000									35						80
cis-1,2-Dichloroethene	1,400	12,000			170						2,610			580			11,960
Tetrahydrofuran	1,900	2.2 E+5	350	400	470	440	350	330	460	310	430	390	430	360	330	270	360
Benzene	100	4,000															26
Trichloroethene	100	4,000			1,220						27			5,980			29
Naphthalene	35,000	730	540	60	22									31			
2-Methylnaphthalene	57,000	4,200	234	62	30	24	18							33			

		Sample ID	DUP 4	DUP 5	DUP 6	TB	FB	TB	FB
		Date Collected	12/10/12	12/11/12	12/11/12	12/10/12	12/10/12	12/11/12	12/11/12
		Depth (ft)							
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000	129	72	80	58		72	66
2 Butanone (MEK)	2.6 E+5	44,000	92	63	60	48	41	42	44
Chloromethane	5,200	NC	110	128	121	99	95	95	103
Methylene Chloride	100	30,000	12	13	12	9.0		9.0	8.5
trans-1,2-Dichloroethene	2,000	30,000							
Tetrahydrofuran	1,900	2.2 E+5	350	290	300	230	230	230	230

NOTES:

	Exceeds one or more criteria
	Blank cells indicate no detectable concentrations
NC	No Criteria
111	Compound also found in associated method blank, suggesting a laboratory artifact.
GSI	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
DW	Drinking Water criteria

SOIL ANALYTICAL DATA - DETECTED VOCs
RACER - Flint West #12990

		Sample ID	SB-105	SB-105	SB-105	SB-106	SB-106	SB-106	SB-107	SB-107	SB-107	SB-108	SB-108	SB-108	SB-109	SB-109	SB-109	SB-110	SB-110
		Date Collected	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/4/12	12/5/12	12/5/12	12/5/12	12/5/12	12/5/12
		Depth (ft)	7-8	10-11	23-25	8-9	13-14	24-25	6-7	13-14	17-18	6-7	14-15	20-21	4-5	12-13	18-19	12-13	15-16
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
VOCs	varies	varies																	

		Sample ID	SB-110	SB-111	SB-111	SB-111	SB-112	SB-112	SB-112	SB-113	SB-113	SB-113	DUP 1	DUP 2	DUP 3	TB	FB	TB	FB	TB	FB
		Date Collected	12/5/12	12/5/12	12/5/12	12/5/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/4/12	12/4/12	12/5/12	12/4/12	12/4/12	12/5/12	12/5/12	12/6/12	12/6/12
		Depth (ft)	24-25	11-12	13-14	24.5-25.5	3.5-4.5	8.5-9.5	24-25	4-6	10-11	23-24									
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone																				111	
2 Butanone (MEK)																				55	
Chloromethane																				102	
Vinyl Chloride							80														
Tetrahydrofuran																				250	
Toluene							400														
1,3,5-Trimethylbenzene							300														
1,2,3-Trimethylbenzene							200														
Naphthalene							840		470												
2-Methylnaphthalene							3,120		1,100	560											
n-Butylbenzene							250														

NOTES:

	Exceeds one or more criteria
	Blank cells indicate no detectable concentrations
NC	No Criteria
111	Compound also found in associated method blank, suggesting a laboratory artifact.

DATA

Applied EcoSystems, Inc.

Environmental Management, Consulting & Field Services

Analytical Laboratory Report

Revised Report

Report ID: S54879.01(02)
Generated on 12/27/2012
Replaces report S54879.01(01) generated on 12/14/2012

Report to

Attention: Mike Smith / Steve Luzkow
Applied Ecosystems
G4300 S. Saginaw St.
Burton, MI 48529

Phone: 810-715-2525 FAX: 810-715-2526
Email: sluzkow@appliedecosystems.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54879.01-S54879.03
Project: 11-4317-102- RACER Former Building 9
Collected Date: 12/04/2012
Submitted Date/Time: 12/07/2012 15:00
Sampled by: Josh Adams
P.O. #: PO128083

Re-reported with J-values and MDLs.

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak

Violetta F. Murshak
Laboratory Director

Sample Summary (3 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54879.01	SB-108 (12/4/12) (6-7)	Soil	12/04/2012 16:15
S54879.02	SB-108 (12/4/12) (14-15)	Soil	12/04/2012 16:24
S54879.03	SB-108 (12/4/12) (20-21)	Soil	12/04/2012 16:31

Analytical Laboratory Report

Revised Report

Lab Sample ID: S54879.01
Sample Tag: SB-108 (12/4/12) (6-7)
Collected Date/Time: 12/04/2012 16:15
Matrix: Soil
COC Reference: 82687

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 11:35	JKB	0.6	
Total Solids	92	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.07	mg/kg	0.20	SW6020	12/12/12 14:21	PER	0.030	
Barium	9.01	mg/kg	1.0	SW6020	12/12/12 14:21	PER	0.17	
Cadmium	0.11	mg/kg	0.20	SW6020	12/12/12 14:21	PER	0.024	b
Chromium	1.64	mg/kg	0.50	SW6020	12/12/12 14:21	PER	0.038	
Copper	1.48	mg/kg	0.50	SW6020	12/12/12 14:21	PER	0.088	
Lead	3.17	mg/kg	0.30	SW6020	12/12/12 14:21	PER	0.020	
Mercury	0.01	mg/kg	0.050	SW7471A	12/12/12 15:31	JRT	0.00064	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:21	PER	0.094	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:21	PER	0.012	
Zinc	4.48	mg/kg	1.0	SW6020	12/12/12 14:21	PER	0.044	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	21	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	25	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	25	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	29	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	25	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	55	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	43	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	28	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	33	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	20	
Fluoranthene	36	ug/kg	300	SW8270C	12/12/12 21:17	PL	30	J
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	21	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	22	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	25	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	22	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	27	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	29	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 21:17	PL	21	

b-Value detected less than reporting limit, but greater than MDL
J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S54879.01 (continued)
Sample Tag: SB-108 (12/4/12) (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	15	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/12/12 21:38	WAT	60	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	16	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	7.0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	12	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	16	
2-Butanone (MEK)	Not detected	ug/kg	950	SW8260B/5035	12/12/12 21:38	WAT	16	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	24	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	36	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	15	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	10	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	7.6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	10	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	11	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	10	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	11	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	8.9	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	13	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/12/12 21:38	WAT	210	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	11	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	13	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	6.4	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/12/12 21:38	WAT	25	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/12/12 21:38	WAT	14	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	7.6	
Benzene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	12	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	11	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	10	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	12	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	9.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	13	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	5.7	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	10	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	7.0	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	20	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	11	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	18	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	8.3	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/12/12 21:38	WAT	13	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	11	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	7.0	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	15	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	28	
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	13	
Styrene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	11	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	13	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	8.3	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	18	

M-Result reported to MDL not RDL

Lab Sample ID: S54879.01 (continued)
Sample Tag: SB-108 (12/4/12) (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	17	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	15	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	16	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	17	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	13	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	14	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	16	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	17	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	13	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	12	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	17	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 21:38	WAT	2.5	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/12/12 21:38	WAT	15	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 21:38	WAT	9.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:38	WAT	12	
1,2,4-Trichlorobenzene	Not detected	ug/kg	420	SW8260B/5035	12/12/12 21:38	WAT	15	
1,2,3-Trichlorobenzene	Not detected	ug/kg	420	SW8260B/5035	12/12/12 21:38	WAT	18	
Naphthalene	Not detected	ug/kg	420	SW8260B/5035	12/12/12 21:38	WAT	16	
2-Methylnaphthalene	Not detected	ug/kg	420	SW8260B/5035	12/12/12 21:38	WAT	18	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S54879.02
Sample Tag: SB-108 (12/4/12) (14-15)
Collected Date/Time: 12/04/2012 16:24
Matrix: Soil
COC Reference: 82687

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 11:45	JKB	0.6	
Total Solids	82	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.51	mg/kg	0.20	SW6020	12/12/12 14:29	PER	0.036	
Barium	40.2	mg/kg	1.0	SW6020	12/12/12 14:29	PER	0.20	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 14:29	PER	0.028	
Chromium	2.83	mg/kg	0.50	SW6020	12/12/12 14:29	PER	0.045	
Copper	4.72	mg/kg	0.50	SW6020	12/12/12 14:29	PER	0.10	
Lead	5.09	mg/kg	0.30	SW6020	12/12/12 14:29	PER	0.024	
Mercury	0.02	mg/kg	0.050	SW7471A	12/12/12 15:33	JRT	0.00071	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:29	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:29	PER	0.014	
Zinc	11.5	mg/kg	1.0	SW6020	12/12/12 14:29	PER	0.052	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	37	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	29	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 17:29	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Lab Sample ID: S54879.02 (continued)
Sample Tag: SB-108 (12/4/12) (14-15)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:57	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 21:57	WAT	73	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/12/12 21:57	WAT	8.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:57	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	19	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/12/12 21:57	WAT	19	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 21:57	WAT	29	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 21:57	WAT	44	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 21:57	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 21:57	WAT	9.3	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	12	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	14	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	12	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 21:57	WAT	260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	7.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 21:57	WAT	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 21:57	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	9.3	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 21:57	WAT	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	7.0	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	8.5	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	22	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/12/12 21:57	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	8.5	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/12/12 21:57	WAT	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	22	

M-Result reported to MDL not RDL

Lab Sample ID: S54879.02 (continued)
Sample Tag: SB-108 (12/4/12) (14-15)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	19	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 21:57	WAT	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 21:57	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 21:57	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 21:57	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/12/12 21:57	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/12/12 21:57	WAT	22	
Naphthalene	Not detected	ug/kg	510	SW8260B/5035	12/12/12 21:57	WAT	19	
2-Methylnaphthalene	Not detected	ug/kg	510	SW8260B/5035	12/12/12 21:57	WAT	22	

Analytical Laboratory Report

Revised Report

Lab Sample ID: S54879.03
Sample Tag: SB-108 (12/4/12) (20-21)
Collected Date/Time: 12/04/2012 16:31
Matrix: Soil
COC Reference: 82687

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:05	JKB	0.6	
Total Solids	77	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.44	mg/kg	0.20	SW6020	12/12/12 14:30	PER	0.034	
Barium	55.5	mg/kg	1.0	SW6020	12/12/12 14:30	PER	0.19	
Cadmium	0.21	mg/kg	0.20	SW6020	12/12/12 14:30	PER	0.027	
Chromium	4.61	mg/kg	0.50	SW6020	12/12/12 14:30	PER	0.043	
Copper	9.14	mg/kg	0.50	SW6020	12/12/12 14:30	PER	0.099	
Lead	8.45	mg/kg	0.30	SW6020	12/12/12 14:30	PER	0.023	
Mercury	0.02	mg/kg	0.050	SW7471A	12/12/12 15:35	JRT	0.00077	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:30	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:30	PER	0.014	
Zinc	22.3	mg/kg	1.0	SW6020	12/12/12 14:30	PER	0.050	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	18	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	18	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	21	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	18	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	39	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	31	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	20	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	24	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	15	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	22	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	16	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	16	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 17:48	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Lab Sample ID: S54879.03 (continued)
Sample Tag: SB-108 (12/4/12) (20-21)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:15	WAT	20	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 22:15	WAT	80	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	21	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:15	WAT	9.4	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:15	WAT	16	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	21	
2-Butanone (MEK)	Not detected	ug/kg	1,300	SW8260B/5035	12/12/12 22:15	WAT	21	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:15	WAT	32	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:15	WAT	48	
Vinyl chloride	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	20	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:15	WAT	14	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:15	WAT	10	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	14	
1,1-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	15	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	14	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	14	
1,1-Dichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	12	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	17	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 22:15	WAT	280	
Chloroform	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	18	
1,1,1-Trichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	8.5	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 22:15	WAT	33	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 22:15	WAT	19	
Carbon tetrachloride	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	10	
Benzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	16	
1,2-Dichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	15	
Trichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	14	
1,2-Dichloropropane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	16	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	13	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:15	WAT	18	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	7.7	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	14	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	9.4	
1,1,2-Trichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	27	
Tetrachloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	25	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	11	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/12/12 22:15	WAT	17	M
Chlorobenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	9.4	
Ethylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	20	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	37	
o-Xylene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	18	
Styrene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:15	WAT	18	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	25	

M-Result reported to MDL not RDL

Lab Sample ID: S54879.03 (continued)
Sample Tag: SB-108 (12/4/12) (20-21)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	23	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	20	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	21	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	22	
tert-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	18	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	19	
sec-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	21	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	23	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	17	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	16	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	22	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:15	WAT	3.4	
n-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:15	WAT	20	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:15	WAT	13	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:15	WAT	16	
1,2,4-Trichlorobenzene	Not detected	ug/kg	560	SW8260B/5035	12/12/12 22:15	WAT	20	
1,2,3-Trichlorobenzene	Not detected	ug/kg	560	SW8260B/5035	12/12/12 22:15	WAT	24	
Naphthalene	Not detected	ug/kg	560	SW8260B/5035	12/12/12 22:15	WAT	21	
2-Methylnaphthalene	Not detected	ug/kg	560	SW8260B/5035	12/12/12 22:15	WAT	24	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

82687

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc.
ADDRESS: 4300 S. Saginaw St.
CITY: Burton, [redacted] STATE: MI ZIP CODE: 48529
PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 128083
E-MAIL ADDRESS: ac_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 11-4317-102 / RACER-Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	PNAs	10 Metals	Hex Chromium	Special Instructions
54879.01	12/4/12	16:15	SB-108 (12/4/12) (6-7)	S	2	1					1		X	X	X	X	Task #1
.02	↓	16:24	SB-108 (12/4/12) (14-15)	↓	↓	↓					↓		X	X	X	X	
.03	↓	16:31	SB-108 (12/4/12) (20-21)	↓	↓	↓					↓		X	X	X	X	

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Applied EcoSystems, Inc. (Sampler)	DATE: 12/7/12	TIME: 8:35pm	
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE	TIME	
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature]	DATE: 12/8/12	TIME: 1500	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 5.4
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S54880.01(01)
Generated on 12/27/2012

Report to

Attention: Mike Smith / Steve Luzkow
Applied Ecosystems
G4300 S. Saginaw St.
Burton, MI 48529

Phone: 810-715-2525 FAX: 810-715-2526
Email: sluzkow@appliedecosystems.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54880.01-S54880.33
Project: 11-4317-102- RACER Former Building 9
Collected Date: 12/04/2012 - 12/06/2012
Submitted Date/Time: 12/07/2012 15:00
Sampled by: Josh Adams
P.O. #: PO128083

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (33 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54880.01	SB-105 (12/4/12) (7-8)	Soil	12/04/2012 13:21
S54880.02	SB-105 (12/4/12) (10-11)	Soil	12/04/2012 13:32
S54880.03	SB-105 (12/4/12) (23-25)	Soil	12/04/2012 13:51
S54880.04	SB-106 (12/4/12) (8-9)	Soil	12/04/2012 14:36
S54880.05	SB-106 (12/4/12) (13-14)	Soil	12/04/2012 14:45
S54880.06	SB-106 (12/4/12) (24-25)	Soil	12/04/2012 14:56
S54880.07	SB-107 (12/4/12) (6-7)	Soil	12/04/2012 15:19
S54880.08	SB-107 (12/4/12) (13-14)	Soil	12/04/2012 15:36
S54880.09	SB-107 (12/4/12) (17-18)	Soil	12/04/2012 15:43
S54880.10	SB-109 (12/5/12) (4-5)	Soil	12/05/2012 10:18
S54880.11	SB-109 (12/5/12) (12-13)	Soil	12/05/2012 10:27
S54880.12	SB-109 (12/5/12) (18-19)	Soil	12/05/2012 10:34
S54880.13	SB-110 (12/5/12) (12-13)	Soil	12/05/2012 12:25
S54880.14	SB-110 (12/5/12) (15-16)	Soil	12/05/2012 12:46
S54880.15	SB-110 (12/5/12) (24-25)	Soil	12/05/2012 13:03
S54880.16	SB-111 (12/5/12) (11-12)	Soil	12/05/2012 15:18
S54880.17	SB-111 (12/5/12) (13-14)	Soil	12/05/2012 15:31
S54880.18	SB-111 (12/5/12) (24.5-25.5)	Soil	12/05/2012 15:46
S54880.19	SB-112 (12/6/12) (3.5-4.5)	Soil	12/06/2012 11:41
S54880.20	SB-112 (12/6/12) (8.5-9.5)	Soil	12/06/2012 11:54
S54880.21	SB-112 (12/6/12) (24-25)	Soil	12/06/2012 12:16
S54880.22	SB-113 (12/6/12) (4-6)	Soil	12/06/2012 15:11
S54880.23	SB-113 (12/6/12) (10-11)	Soil	12/06/2012 15:22
S54880.24	SB-113 (12/6/12) (23-24)	Soil	12/06/2012 15:47
S54880.25	Dup-1 (12/4/12)	Soil	12/04/2012 00:01
S54880.26	Dup-2 (12/4/12)	Soil	12/04/2012 00:01
S54880.27	Dup-3 (12/5/12)	Soil	12/05/2012 00:01
S54880.28	Trip Blank (12/4/12)	Methanol	12/04/2012 00:01
S54880.29	Field Blank (12/4/12)	Methanol	12/04/2012 00:01
S54880.30	Trip Blank (12/5/12)	Methanol	12/05/2012 00:01
S54880.31	Field Blank (12/5/12)	Methanol	12/05/2012 00:01
S54880.32	Trip Blank (12/6/12)	Methanol	12/06/2012 00:01
S54880.33	Field Blank (12/6/12)	Methanol	12/06/2012 00:01

Analytical Laboratory Report

Lab Sample ID: S54880.01
Sample Tag: SB-105 (12/4/12) (7-8)
Collected Date/Time: 12/04/2012 13:21
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:10	JKB	0.6	
Total Solids	87	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	0.81	mg/kg	0.20	SW6020	12/12/12 14:32	PER	0.031	
Barium	22.4	mg/kg	1.0	SW6020	12/12/12 14:32	PER	0.17	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 14:32	PER	0.025	
Chromium	1.51	mg/kg	0.50	SW6020	12/12/12 14:32	PER	0.039	
Copper	3.81	mg/kg	0.50	SW6020	12/12/12 14:32	PER	0.090	
Lead	8.50	mg/kg	0.30	SW6020	12/12/12 14:32	PER	0.021	
Mercury	0.02	mg/kg	0.050	SW7471A	12/12/12 15:53	JRT	0.00068	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:32	PER	0.096	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:32	PER	0.012	
Zinc	6.34	mg/kg	1.0	SW6020	12/12/12 14:32	PER	0.045	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	18	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	35	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	27	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	17	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	21	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	19	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	16	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	17	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	19	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:07	PL	13	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.01 (continued)
Sample Tag: SB-105 (12/4/12) (7-8)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/12/12 22:34	WAT	64	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	7.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	17	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260B/5035	12/12/12 22:34	WAT	17	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	26	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	39	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	8.2	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	12	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	11	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	9.5	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/12/12 22:34	WAT	220	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	6.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/12/12 22:34	WAT	27	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/12/12 22:34	WAT	15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	8.2	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	6.1	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	7.5	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	20	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	8.8	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/12/12 22:34	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	7.5	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	8.8	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	20	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.01 (continued)
Sample Tag: SB-105 (12/4/12) (7-8)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	18	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 22:34	WAT	2.7	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 22:34	WAT	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:34	WAT	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 22:34	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	12/12/12 22:34	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	12/12/12 22:34	WAT	19	
Naphthalene	Not detected	ug/kg	450	SW8260B/5035	12/12/12 22:34	WAT	17	
2-Methylnaphthalene	Not detected	ug/kg	450	SW8260B/5035	12/12/12 22:34	WAT	19	

Analytical Laboratory Report

Lab Sample ID: S54880.02
Sample Tag: SB-105 (12/4/12) (10-11)
Collected Date/Time: 12/04/2012 13:32
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:15	JKB	0.6	
Total Solids	74	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.22	mg/kg	0.20	SW6020	12/12/12 14:34	PER	0.036	
Barium	21.7	mg/kg	1.0	SW6020	12/12/12 14:34	PER	0.20	
Cadmium	0.14	mg/kg	0.20	SW6020	12/12/12 14:34	PER	0.029	b
Chromium	2.86	mg/kg	0.50	SW6020	12/12/12 14:34	PER	0.046	
Copper	8.03	mg/kg	0.50	SW6020	12/12/12 14:34	PER	0.11	
Lead	32.9	mg/kg	0.30	SW6020	12/12/12 14:34	PER	0.024	
Mercury	0.327	mg/kg	0.050	SW7471A	12/12/12 15:55	JRT	0.00081	
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:34	PER	0.11	
Silver	0.17	mg/kg	0.10	SW6020	12/12/12 14:34	PER	0.014	
Zinc	44.0	mg/kg	1.0	SW6020	12/12/12 14:34	PER	0.053	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	16	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	18	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	18	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	21	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	18	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	41	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	32	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	21	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	25	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	15	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	22	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	16	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	16	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	19	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	16	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	20	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	22	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:26	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.02 (continued)
Sample Tag: SB-105 (12/4/12) (10-11)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:52	WAT	21	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 22:52	WAT	85	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	23	
Carbon disulfide	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:52	WAT	10.0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:52	WAT	17	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	23	
2-Butanone (MEK)	Not detected	ug/kg	1,400	SW8260B/5035	12/12/12 22:52	WAT	23	
Dichlorodifluoromethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:52	WAT	34	
Chloromethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:52	WAT	52	
Vinyl chloride	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	22	
Bromomethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 22:52	WAT	15	
Chloroethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:52	WAT	11	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	15	
1,1-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	16	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	15	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	15	
1,1-Dichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	13	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	18	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 22:52	WAT	300	
Chloroform	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	15	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	19	
1,1,1-Trichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	9.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	5,000	SW8260B/5035	12/12/12 22:52	WAT	35	
2-Hexanone	Not detected	ug/kg	5,000	SW8260B/5035	12/12/12 22:52	WAT	20	
Carbon tetrachloride	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	11	
Benzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	17	
1,2-Dichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	16	
Trichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	15	
1,2-Dichloropropane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	17	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	14	
Dibromomethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:52	WAT	19	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	8.2	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	15	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	10.0	
1,1,2-Trichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	29	
Tetrachloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	15	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	26	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	12	
1,2-Dibromoethane	Not detected	ug/kg	40	SW8260B/5035	12/12/12 22:52	WAT	18	M
Chlorobenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	16	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	10.0	
Ethylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	21	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	40	
o-Xylene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	19	
Styrene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	15	
Isopropylbenzene	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:52	WAT	19	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	12	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	26	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.02 (continued)
Sample Tag: SB-105 (12/4/12) (10-11)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	24	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	21	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	23	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	24	
tert-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	19	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	20	
sec-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	23	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	24	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	18	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	17	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	24	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 22:52	WAT	3.6	
n-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 22:52	WAT	22	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:52	WAT	14	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 22:52	WAT	17	
1,2,4-Trichlorobenzene	Not detected	ug/kg	600	SW8260B/5035	12/12/12 22:52	WAT	21	
1,2,3-Trichlorobenzene	Not detected	ug/kg	600	SW8260B/5035	12/12/12 22:52	WAT	25	
Naphthalene	Not detected	ug/kg	600	SW8260B/5035	12/12/12 22:52	WAT	23	
2-Methylnaphthalene	Not detected	ug/kg	600	SW8260B/5035	12/12/12 22:52	WAT	25	

Analytical Laboratory Report

Lab Sample ID: S54880.03
Sample Tag: SB-105 (12/4/12) (23-25)
Collected Date/Time: 12/04/2012 13:51
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:20	JKB	0.6	
Total Solids	78	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.34	mg/kg	0.20	SW6020	12/12/12 14:36	PER	0.036	
Barium	30.4	mg/kg	1.0	SW6020	12/12/12 14:36	PER	0.20	
Cadmium	0.21	mg/kg	0.20	SW6020	12/12/12 14:36	PER	0.028	
Chromium	4.74	mg/kg	0.50	SW6020	12/12/12 14:36	PER	0.045	
Copper	14.3	mg/kg	0.50	SW6020	12/12/12 14:36	PER	0.10	
Lead	8.75	mg/kg	0.30	SW6020	12/12/12 14:36	PER	0.024	
Mercury	0.02	mg/kg	0.050	SW7471A	12/12/12 15:58	JRT	0.00076	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:36	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:36	PER	0.014	
Zinc	26.2	mg/kg	1.0	SW6020	12/12/12 14:36	PER	0.052	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	39	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 18:45	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.03 (continued)
Sample Tag: SB-105 (12/4/12) (23-25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:10	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 23:10	WAT	74	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:10	WAT	8.7	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:10	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/12/12 23:10	WAT	20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:10	WAT	30	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:10	WAT	45	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:10	WAT	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:10	WAT	9.5	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	14	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	13	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 23:10	WAT	260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	7.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 23:10	WAT	31	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 23:10	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	9.5	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:10	WAT	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	7.1	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	8.7	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/12/12 23:10	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	8.7	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	35	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:10	WAT	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	23	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.03 (continued)
Sample Tag: SB-105 (12/4/12) (23-25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:10	WAT	3.2	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/12/12 23:10	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 23:10	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:10	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	12/12/12 23:10	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	12/12/12 23:10	WAT	22	
Naphthalene	Not detected	ug/kg	520	SW8260B/5035	12/12/12 23:10	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	520	SW8260B/5035	12/12/12 23:10	WAT	22	

Analytical Laboratory Report

Lab Sample ID: S54880.04
Sample Tag: SB-106 (12/4/12) (8-9)
Collected Date/Time: 12/04/2012 14:36
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:25	JKB	0.6	
Total Solids	84	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	0.95	mg/kg	0.20	SW6020	12/12/12 14:37	PER	0.033	
Barium	37.4	mg/kg	1.0	SW6020	12/12/12 14:37	PER	0.18	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 14:37	PER	0.026	
Chromium	2.11	mg/kg	0.50	SW6020	12/12/12 14:37	PER	0.042	
Copper	2.67	mg/kg	0.50	SW6020	12/12/12 14:37	PER	0.097	
Lead	5.16	mg/kg	0.30	SW6020	12/12/12 14:37	PER	0.022	
Mercury	0.03	mg/kg	0.050	SW7471A	12/12/12 16:00	JRT	0.00070	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:37	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:37	PER	0.013	
Zinc	6.41	mg/kg	1.0	SW6020	12/12/12 14:37	PER	0.048	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	36	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	28	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	19	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:04	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.04 (continued)
Sample Tag: SB-106 (12/4/12) (8-9)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:29	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/12/12 23:29	WAT	67	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:29	WAT	7.9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:29	WAT	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	12/12/12 23:29	WAT	18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:29	WAT	27	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:29	WAT	41	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:29	WAT	11	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:29	WAT	8.6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	13	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	11	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	10	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/12/12 23:29	WAT	240	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	7.2	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 23:29	WAT	28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 23:29	WAT	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	8.6	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:29	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	6.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	7.9	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	21	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	9.3	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/12/12 23:29	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	7.9	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	32	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:29	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	9.3	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	21	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.04 (continued)
Sample Tag: SB-106 (12/4/12) (8-9)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	19	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	15	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	19	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/12/12 23:29	WAT	2.9	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/12/12 23:29	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:29	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:29	WAT	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	12/12/12 23:29	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	12/12/12 23:29	WAT	20	
Naphthalene	Not detected	ug/kg	470	SW8260B/5035	12/12/12 23:29	WAT	18	
2-Methylnaphthalene	Not detected	ug/kg	470	SW8260B/5035	12/12/12 23:29	WAT	20	

Analytical Laboratory Report

Lab Sample ID: S54880.05
Sample Tag: SB-106 (12/4/12) (13-14)
Collected Date/Time: 12/04/2012 14:45
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:30	JKB	0.6	
Total Solids	79	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.00	mg/kg	0.20	SW6020	12/12/12 14:39	PER	0.034	
Barium	42.0	mg/kg	1.0	SW6020	12/12/12 14:39	PER	0.19	
Cadmium	0.15	mg/kg	0.20	SW6020	12/12/12 14:39	PER	0.027	b
Chromium	3.35	mg/kg	0.50	SW6020	12/12/12 14:39	PER	0.043	
Copper	5.53	mg/kg	0.50	SW6020	12/12/12 14:39	PER	0.099	
Lead	6.60	mg/kg	0.30	SW6020	12/12/12 14:39	PER	0.022	
Mercury	0.01	mg/kg	0.050	SW7471A	12/12/12 16:02	JRT	0.00073	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:39	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:39	PER	0.013	
Zinc	15.0	mg/kg	1.0	SW6020	12/12/12 14:39	PER	0.049	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:23	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.05 (continued)
Sample Tag: SB-106 (12/4/12) (13-14)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:47	WAT	20	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 23:47	WAT	81	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	22	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:47	WAT	9.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:47	WAT	16	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	22	
2-Butanone (MEK)	Not detected	ug/kg	1,300	SW8260B/5035	12/12/12 23:47	WAT	22	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:47	WAT	33	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:47	WAT	49	
Vinyl chloride	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	21	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/12/12 23:47	WAT	14	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:47	WAT	10	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	14	
1,1-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	16	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	14	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	15	
1,1-Dichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	12	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	17	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/12/12 23:47	WAT	290	
Chloroform	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	15	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	18	
1,1,1-Trichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	8.7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 23:47	WAT	34	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/12/12 23:47	WAT	19	
Carbon tetrachloride	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	10	
Benzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	16	
1,2-Dichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	16	
Trichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	14	
1,2-Dichloropropane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	16	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	13	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:47	WAT	18	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	7.8	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	14	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	9.5	
1,1,2-Trichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	28	
Tetrachloroethene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	15	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	25	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	11	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/12/12 23:47	WAT	17	M
Chlorobenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	16	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	9.5	
Ethylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	20	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	38	
o-Xylene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	18	
Styrene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	15	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:47	WAT	18	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	25	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.05 (continued)
Sample Tag: SB-106 (12/4/12) (13-14)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	23	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	20	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	22	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	22	
tert-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	18	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	19	
sec-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	22	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	23	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	17	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	16	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	22	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/12/12 23:47	WAT	3.5	
n-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/12/12 23:47	WAT	21	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/12/12 23:47	WAT	13	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/12/12 23:47	WAT	16	
1,2,4-Trichlorobenzene	Not detected	ug/kg	570	SW8260B/5035	12/12/12 23:47	WAT	20	
1,2,3-Trichlorobenzene	Not detected	ug/kg	570	SW8260B/5035	12/12/12 23:47	WAT	24	
Naphthalene	Not detected	ug/kg	570	SW8260B/5035	12/12/12 23:47	WAT	22	
2-Methylnaphthalene	Not detected	ug/kg	570	SW8260B/5035	12/12/12 23:47	WAT	24	

Analytical Laboratory Report

Lab Sample ID: S54880.06
Sample Tag: SB-106 (12/4/12) (24-25)
Collected Date/Time: 12/04/2012 14:56
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:35	JKB	0.6	
Total Solids	78	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.68	mg/kg	0.20	SW6020	12/12/12 14:41	PER	0.035	
Barium	26.3	mg/kg	1.0	SW6020	12/12/12 14:41	PER	0.19	
Cadmium	0.25	mg/kg	0.20	SW6020	12/12/12 14:41	PER	0.028	
Chromium	3.92	mg/kg	0.50	SW6020	12/12/12 14:41	PER	0.044	
Copper	11.9	mg/kg	0.50	SW6020	12/12/12 14:41	PER	0.10	
Lead	8.06	mg/kg	0.30	SW6020	12/12/12 14:41	PER	0.023	
Mercury	0.02	mg/kg	0.050	SW7471A	12/12/12 16:04	JRT	0.00073	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:41	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:41	PER	0.014	
Zinc	32.6	mg/kg	1.0	SW6020	12/12/12 14:41	PER	0.051	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	39	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 19:42	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Lab Sample ID: S54880.06 (continued)
Sample Tag: SB-106 (12/4/12) (24-25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/13/12 00:05	WAT	20	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/13/12 00:05	WAT	80	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	21	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/13/12 00:05	WAT	9.3	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/13/12 00:05	WAT	16	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	21	
2-Butanone (MEK)	Not detected	ug/kg	1,300	SW8260B/5035	12/13/12 00:05	WAT	21	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 00:05	WAT	32	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 00:05	WAT	48	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	20	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 00:05	WAT	14	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 00:05	WAT	10	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	14	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	15	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	14	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	12	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	17	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/13/12 00:05	WAT	280	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	18	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	8.5	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 00:05	WAT	33	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 00:05	WAT	19	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	10	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	16	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	15	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	14	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	16	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	13	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 00:05	WAT	18	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	7.6	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	14	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	9.3	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	27	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	25	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	11	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/13/12 00:05	WAT	17	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	9.3	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	20	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	37	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	18	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/13/12 00:05	WAT	18	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	25	

M-Result reported to MDL not RDL

Lab Sample ID: S54880.06 (continued)
Sample Tag: SB-106 (12/4/12) (24-25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	23	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	20	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	21	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	22	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	18	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	19	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	21	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	23	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	17	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	16	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	22	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 00:05	WAT	3.4	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 00:05	WAT	20	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/13/12 00:05	WAT	13	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 00:05	WAT	16	
1,2,4-Trichlorobenzene	Not detected	ug/kg	560	SW8260B/5035	12/13/12 00:05	WAT	20	
1,2,3-Trichlorobenzene	Not detected	ug/kg	560	SW8260B/5035	12/13/12 00:05	WAT	24	
Naphthalene	Not detected	ug/kg	560	SW8260B/5035	12/13/12 00:05	WAT	21	
2-Methylnaphthalene	Not detected	ug/kg	560	SW8260B/5035	12/13/12 00:05	WAT	24	

Analytical Laboratory Report

Lab Sample ID: S54880.07
Sample Tag: SB-107 (12/4/12) (6-7)
Collected Date/Time: 12/04/2012 15:19
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:40	JKB	0.6	
Total Solids	81	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.63	mg/kg	0.20	SW6020	12/12/12 14:43	PER	0.033	
Barium	38.2	mg/kg	1.0	SW6020	12/12/12 14:43	PER	0.18	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 14:43	PER	0.026	
Chromium	2.25	mg/kg	0.50	SW6020	12/12/12 14:43	PER	0.042	
Copper	3.39	mg/kg	0.50	SW6020	12/12/12 14:43	PER	0.097	
Lead	5.55	mg/kg	0.30	SW6020	12/12/12 14:43	PER	0.022	
Mercury	0.02	mg/kg	0.050	SW7471A	12/12/12 16:06	JRT	0.00073	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:43	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:43	PER	0.013	
Zinc	9.94	mg/kg	1.0	SW6020	12/12/12 14:43	PER	0.048	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	29	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 20:01	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.07 (continued)
Sample Tag: SB-107 (12/4/12) (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 00:53	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 00:53	WAT	72	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 00:53	WAT	8.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 00:53	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	19	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/14/12 00:53	WAT	19	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 00:53	WAT	29	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 00:53	WAT	44	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	18	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 00:53	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 00:53	WAT	9.2	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	12	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	14	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	12	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	15	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 00:53	WAT	250	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	7.7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 00:53	WAT	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 00:53	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	9.2	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 00:53	WAT	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	6.9	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	8.5	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	22	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 00:53	WAT	15	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	8.5	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 00:53	WAT	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	22	

M-Result reported to MDL not RDL

Lab Sample ID: S54880.07 (continued)
Sample Tag: SB-107 (12/4/12) (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	19	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	15	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 00:53	WAT	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 00:53	WAT	18	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 00:53	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 00:53	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 00:53	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 00:53	WAT	22	
Naphthalene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 00:53	WAT	19	
2-Methylnaphthalene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 00:53	WAT	22	

Analytical Laboratory Report

Lab Sample ID: S54880.08
Sample Tag: SB-107 (12/4/12) (13-14)
Collected Date/Time: 12/04/2012 15:36
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/12/12 12:50	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/11/12 21:53	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:45	JKB	0.6	
Total Solids	79	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.06	mg/kg	0.20	SW6020	12/12/12 14:45	PER	0.034	
Barium	52.7	mg/kg	1.0	SW6020	12/12/12 14:45	PER	0.19	
Cadmium	0.19	mg/kg	0.20	SW6020	12/12/12 14:45	PER	0.027	b
Chromium	5.18	mg/kg	0.50	SW6020	12/12/12 14:45	PER	0.043	
Copper	9.06	mg/kg	0.50	SW6020	12/12/12 14:45	PER	0.10	
Lead	7.50	mg/kg	0.30	SW6020	12/12/12 14:45	PER	0.023	
Mercury	0.02	mg/kg	0.050	SW7471A	12/12/12 16:08	JRT	0.00072	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:45	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:45	PER	0.014	
Zinc	21.7	mg/kg	1.0	SW6020	12/12/12 14:45	PER	0.050	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/12/12 20:20	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.08 (continued)
Sample Tag: SB-107 (12/4/12) (13-14)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 01:12	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 01:12	WAT	73	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:12	WAT	8.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 01:12	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	19	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/14/12 01:12	WAT	19	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:12	WAT	30	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:12	WAT	44	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 01:12	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:12	WAT	9.3	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	12	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	14	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	12	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 01:12	WAT	260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	7.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 01:12	WAT	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 01:12	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	9.3	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:12	WAT	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	7.0	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	8.6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 01:12	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	8.6	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:12	WAT	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	23	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.08 (continued)
Sample Tag: SB-107 (12/4/12) (13-14)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	19	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:12	WAT	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:12	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:12	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:12	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 01:12	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 01:12	WAT	22	
Naphthalene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 01:12	WAT	19	
2-Methylnaphthalene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 01:12	WAT	22	

Analytical Laboratory Report

Lab Sample ID: S54880.09
Sample Tag: SB-107 (12/4/12) (17-18)
Collected Date/Time: 12/04/2012 15:43
Matrix: Soil
COC Reference: 82699

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:50	JKB	0.6	
Total Solids	82	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.95	mg/kg	0.20	SW6020	12/12/12 14:47	PER	0.034	
Barium	25.0	mg/kg	1.0	SW6020	12/12/12 14:47	PER	0.19	
Cadmium	0.17	mg/kg	0.20	SW6020	12/12/12 14:47	PER	0.027	b
Chromium	3.26	mg/kg	0.50	SW6020	12/12/12 14:47	PER	0.043	
Copper	10.1	mg/kg	0.50	SW6020	12/12/12 14:47	PER	0.099	
Lead	7.80	mg/kg	0.30	SW6020	12/12/12 14:47	PER	0.022	
Mercury	0.01	mg/kg	0.050	SW7471A	12/13/12 15:07	JRT	0.00072	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:47	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:47	PER	0.013	
Zinc	22.4	mg/kg	1.0	SW6020	12/12/12 14:47	PER	0.049	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	37	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	29	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 16:33	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.09 (continued)
Sample Tag: SB-107 (12/4/12) (17-18)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 01:30	WAT	19	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 01:30	WAT	76	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:30	WAT	8.9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 01:30	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/14/12 01:30	WAT	20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:30	WAT	31	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:30	WAT	46	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 01:30	WAT	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:30	WAT	9.7	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	15	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	13	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 01:30	WAT	270	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	8.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 01:30	WAT	32	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 01:30	WAT	18	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	9.7	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	15	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:30	WAT	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	7.3	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	8.9	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	26	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	11	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 01:30	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	8.9	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	19	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	36	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:30	WAT	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	23	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.09 (continued)
Sample Tag: SB-107 (12/4/12) (17-18)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	22	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	19	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	18	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	22	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:30	WAT	3.2	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 01:30	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:30	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:30	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	530	SW8260B/5035	12/14/12 01:30	WAT	19	
1,2,3-Trichlorobenzene	Not detected	ug/kg	530	SW8260B/5035	12/14/12 01:30	WAT	23	
Naphthalene	Not detected	ug/kg	530	SW8260B/5035	12/14/12 01:30	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	530	SW8260B/5035	12/14/12 01:30	WAT	23	

Analytical Laboratory Report

Lab Sample ID: S54880.10
Sample Tag: SB-109 (12/5/12) (4-5)
Collected Date/Time: 12/05/2012 10:18
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 12:55	JKB	0.6	
Total Solids	77	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.51	mg/kg	0.20	SW6020	12/12/12 14:48	PER	0.036	
Barium	60.6	mg/kg	1.0	SW6020	12/12/12 14:48	PER	0.20	
Cadmium	0.21	mg/kg	0.20	SW6020	12/12/12 14:48	PER	0.029	
Chromium	3.67	mg/kg	0.50	SW6020	12/12/12 14:48	PER	0.045	
Copper	6.37	mg/kg	0.50	SW6020	12/12/12 14:48	PER	0.10	
Lead	6.71	mg/kg	0.30	SW6020	12/12/12 14:48	PER	0.024	
Mercury	0.01	mg/kg	0.050	SW7471A	12/13/12 15:09	JRT	0.00078	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:48	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:48	PER	0.014	
Zinc	18.0	mg/kg	1.0	SW6020	12/12/12 14:48	PER	0.052	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	18	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	18	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	21	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	18	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	39	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	31	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	20	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	24	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	15	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	22	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	16	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	16	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 17:30	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.10 (continued)
Sample Tag: SB-109 (12/5/12) (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:49	WAT	21	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 01:49	WAT	87	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	23	
Carbon disulfide	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:49	WAT	10	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:49	WAT	18	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	23	
2-Butanone (MEK)	Not detected	ug/kg	1,400	SW8260B/5035	12/14/12 01:49	WAT	23	
Dichlorodifluoromethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:49	WAT	35	
Chloromethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:49	WAT	53	
Vinyl chloride	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	22	
Bromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 01:49	WAT	15	
Chloroethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:49	WAT	11	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	15	
1,1-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	17	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	15	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	16	
1,1-Dichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	13	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	18	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 01:49	WAT	300	
Chloroform	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	16	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	19	
1,1,1-Trichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	9.2	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	5,000	SW8260B/5035	12/14/12 01:49	WAT	36	
2-Hexanone	Not detected	ug/kg	5,000	SW8260B/5035	12/14/12 01:49	WAT	20	
Carbon tetrachloride	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	11	
Benzene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	18	
1,2-Dichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	17	
Trichloroethene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	15	
1,2-Dichloropropane	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	18	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	14	
Dibromomethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:49	WAT	19	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	8.3	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	15	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	10	
1,1,2-Trichloroethane	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	30	
Tetrachloroethene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	16	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	27	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	12	
1,2-Dibromoethane	Not detected	ug/kg	40	SW8260B/5035	12/14/12 01:49	WAT	18	M
Chlorobenzene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	17	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	10	
Ethylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	21	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	41	
o-Xylene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	19	
Styrene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	16	
Isopropylbenzene	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:49	WAT	19	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	12	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	27	

M-Result reported to MDL not RDL

Lab Sample ID: S54880.10 (continued)
Sample Tag: SB-109 (12/5/12) (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	25	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	21	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	23	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	24	
tert-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	19	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	20	
sec-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	23	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	25	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	18	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	18	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	24	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 01:49	WAT	3.7	
n-Butylbenzene	Not detected	ug/kg	90	SW8260B/5035	12/14/12 01:49	WAT	22	
Hexachloroethane	Not detected	ug/kg	600	SW8260B/5035	12/14/12 01:49	WAT	14	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 01:49	WAT	18	
1,2,4-Trichlorobenzene	Not detected	ug/kg	610	SW8260B/5035	12/14/12 01:49	WAT	21	
1,2,3-Trichlorobenzene	Not detected	ug/kg	610	SW8260B/5035	12/14/12 01:49	WAT	26	
Naphthalene	Not detected	ug/kg	610	SW8260B/5035	12/14/12 01:49	WAT	23	
2-Methylnaphthalene	Not detected	ug/kg	610	SW8260B/5035	12/14/12 01:49	WAT	26	

Analytical Laboratory Report

Lab Sample ID: S54880.11
Sample Tag: SB-109 (12/5/12) (12-13)
Collected Date/Time: 12/05/2012 10:27
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 13:00	JKB	0.6	
Total Solids	96	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	0.54	mg/kg	0.20	SW6020	12/12/12 14:56	PER	0.030	
Barium	2.75	mg/kg	1.0	SW6020	12/12/12 14:56	PER	0.17	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 14:56	PER	0.024	
Chromium	0.47	mg/kg	0.50	SW6020	12/12/12 14:56	PER	0.038	b
Copper	0.94	mg/kg	0.50	SW6020	12/12/12 14:56	PER	0.088	
Lead	0.90	mg/kg	0.30	SW6020	12/12/12 14:56	PER	0.020	
Mercury	0.0009	mg/kg	0.050	SW7471A	12/13/12 15:25	JRT	0.00060	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 14:56	PER	0.094	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 14:56	PER	0.012	
Zinc	2.11	mg/kg	1.0	SW6020	12/12/12 14:56	PER	0.044	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	12	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	14	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	14	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	16	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	14	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	32	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	25	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	16	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	19	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	12	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	17	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	12	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	12	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	15	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	12	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	15	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	17	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 17:49	PL	12	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.11 (continued)
Sample Tag: SB-109 (12/5/12) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/14/12 02:07	WAT	14	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 02:07	WAT	56	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	15	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:07	WAT	6.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/14/12 02:07	WAT	11	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	15	
2-Butanone (MEK)	Not detected	ug/kg	900	SW8260B/5035	12/14/12 02:07	WAT	15	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:07	WAT	23	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:07	WAT	34	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	14	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 02:07	WAT	9.6	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:07	WAT	7.2	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	9.6	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	11	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	9.6	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	10	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	8.4	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	12	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 02:07	WAT	200	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	10	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	13	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	6.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/14/12 02:07	WAT	23	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/14/12 02:07	WAT	13	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	7.2	
Benzene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	11	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	11	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	9.6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	11	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	9.0	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:07	WAT	13	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	5.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	9.6	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	6.6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	19	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	10	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	17	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	7.8	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	12/14/12 02:07	WAT	12	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	11	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	6.6	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	14	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	26	
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	13	
Styrene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	10	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:07	WAT	13	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	7.8	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	17	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.11 (continued)
Sample Tag: SB-109 (12/5/12) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	16	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	14	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	15	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	16	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	13	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	13	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	15	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	16	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	12	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	11	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	16	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:07	WAT	2.4	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/14/12 02:07	WAT	14	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:07	WAT	9.0	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:07	WAT	11	
1,2,4-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	12/14/12 02:07	WAT	14	
1,2,3-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	12/14/12 02:07	WAT	17	
Naphthalene	Not detected	ug/kg	390	SW8260B/5035	12/14/12 02:07	WAT	15	
2-Methylnaphthalene	Not detected	ug/kg	390	SW8260B/5035	12/14/12 02:07	WAT	17	

Analytical Laboratory Report

Lab Sample ID: S54880.12
Sample Tag: SB-109 (12/5/12) (18-19)
Collected Date/Time: 12/05/2012 10:34
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/13/12 13:05	JKB	0.6	
Total Solids	82	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.77	mg/kg	0.20	SW6020	12/12/12 15:04	PER	0.035	
Barium	20.3	mg/kg	1.0	SW6020	12/12/12 15:04	PER	0.19	
Cadmium	0.17	mg/kg	0.20	SW6020	12/12/12 15:04	PER	0.028	b
Chromium	3.25	mg/kg	0.50	SW6020	12/12/12 15:04	PER	0.044	
Copper	10.5	mg/kg	0.50	SW6020	12/12/12 15:04	PER	0.10	
Lead	7.39	mg/kg	0.30	SW6020	12/12/12 15:04	PER	0.023	
Mercury	0.02	mg/kg	0.050	SW7471A	12/13/12 15:11	JRT	0.00071	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:04	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:04	PER	0.014	
Zinc	21.5	mg/kg	1.0	SW6020	12/12/12 15:04	PER	0.051	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	37	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	29	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:09	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.12 (continued)
Sample Tag: SB-109 (12/5/12) (18-19)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:25	WAT	17	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 02:25	WAT	68	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:25	WAT	8.0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:25	WAT	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	12/14/12 02:25	WAT	18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:25	WAT	28	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:25	WAT	41	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:25	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:25	WAT	8.7	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	12	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	13	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	12	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	10	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	15	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 02:25	WAT	240	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	7.3	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 02:25	WAT	28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 02:25	WAT	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	8.7	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:25	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	6.6	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	8.0	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	21	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	9.5	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 02:25	WAT	15	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	8.0	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	17	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	32	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:25	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	9.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	21	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.12 (continued)
Sample Tag: SB-109 (12/5/12) (18-19)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	20	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	17	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	19	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	15	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	20	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	15	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	19	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:25	WAT	2.9	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:25	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:25	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:25	WAT	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 02:25	WAT	17	
1,2,3-Trichlorobenzene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 02:25	WAT	20	
Naphthalene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 02:25	WAT	18	
2-Methylnaphthalene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 02:25	WAT	20	

Analytical Laboratory Report

Lab Sample ID: S54880.13
Sample Tag: SB-110 (12/5/12) (12-13)
Collected Date/Time: 12/05/2012 12:25
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 10:35	JKB	0.6	
Total Solids	83	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.65	mg/kg	0.20	SW6020	12/12/12 15:06	PER	0.031	
Barium	30.7	mg/kg	1.0	SW6020	12/12/12 15:06	PER	0.17	
Cadmium	0.13	mg/kg	0.20	SW6020	12/12/12 15:06	PER	0.024	b
Chromium	2.34	mg/kg	0.50	SW6020	12/12/12 15:06	PER	0.039	
Copper	3.57	mg/kg	0.50	SW6020	12/12/12 15:06	PER	0.090	
Lead	4.78	mg/kg	0.30	SW6020	12/12/12 15:06	PER	0.020	
Mercury	0.01	mg/kg	0.050	SW7471A	12/13/12 15:13	JRT	0.00071	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:06	PER	0.096	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:06	PER	0.012	
Zinc	10.3	mg/kg	1.0	SW6020	12/12/12 15:06	PER	0.045	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	37	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	28	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:28	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Lab Sample ID: S54880.13 (continued)
Sample Tag: SB-110 (12/5/12) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:43	WAT	17	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 02:43	WAT	68	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:43	WAT	8.0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:43	WAT	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	12/14/12 02:43	WAT	18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:43	WAT	28	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:43	WAT	41	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 02:43	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:43	WAT	8.7	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	12	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	13	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	12	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	10	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	15	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 02:43	WAT	240	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	7.3	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 02:43	WAT	28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 02:43	WAT	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	8.7	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:43	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	6.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	8.0	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	21	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	9.5	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 02:43	WAT	15	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	8.0	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	17	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	32	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:43	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	9.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	21	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.13 (continued)
Sample Tag: SB-110 (12/5/12) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	20	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	17	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	19	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	15	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	20	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	15	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	19	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 02:43	WAT	2.9	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 02:43	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:43	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 02:43	WAT	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 02:43	WAT	17	
1,2,3-Trichlorobenzene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 02:43	WAT	20	
Naphthalene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 02:43	WAT	18	
2-Methylnaphthalene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 02:43	WAT	20	

Analytical Laboratory Report

Lab Sample ID: S54880.14
Sample Tag: SB-110 (12/5/12) (15-16)
Collected Date/Time: 12/05/2012 12:46
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 10:45	JKB	0.6	
Total Solids	82	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.38	mg/kg	0.20	SW6020	12/12/12 15:07	PER	0.035	
Barium	42.4	mg/kg	1.0	SW6020	12/12/12 15:07	PER	0.20	
Cadmium	0.18	mg/kg	0.20	SW6020	12/12/12 15:07	PER	0.028	b
Chromium	3.49	mg/kg	0.50	SW6020	12/12/12 15:07	PER	0.045	
Copper	7.20	mg/kg	0.50	SW6020	12/12/12 15:07	PER	0.10	
Lead	7.11	mg/kg	0.30	SW6020	12/12/12 15:07	PER	0.024	
Mercury	0.02	mg/kg	0.050	SW7471A	12/13/12 15:15	JRT	0.00072	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:07	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:07	PER	0.014	
Zinc	17.6	mg/kg	1.0	SW6020	12/12/12 15:07	PER	0.052	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	37	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	29	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 18:47	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.14 (continued)
Sample Tag: SB-110 (12/5/12) (15-16)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:01	WAT	17	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 03:01	WAT	68	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:01	WAT	8.0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:01	WAT	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	12/14/12 03:01	WAT	18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:01	WAT	28	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:01	WAT	41	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:01	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:01	WAT	8.7	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	12	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	13	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	12	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	10	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	15	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 03:01	WAT	240	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	7.3	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 03:01	WAT	28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 03:01	WAT	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	8.7	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:01	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	6.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	8.0	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	21	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	9.5	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 03:01	WAT	15	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	8.0	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	17	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	32	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:01	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	9.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	21	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.14 (continued)
Sample Tag: SB-110 (12/5/12) (15-16)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	20	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	17	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	19	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	15	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	20	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	15	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	19	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 03:01	WAT	2.9	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 03:01	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:01	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:01	WAT	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 03:01	WAT	17	
1,2,3-Trichlorobenzene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 03:01	WAT	20	
Naphthalene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 03:01	WAT	18	
2-Methylnaphthalene	Not detected	ug/kg	480	SW8260B/5035	12/14/12 03:01	WAT	20	

Analytical Laboratory Report

Lab Sample ID: S54880.15
Sample Tag: SB-110 (12/5/12) (24-25)
Collected Date/Time: 12/05/2012 13:03
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:05	JKB	0.6	
Total Solids	79	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.66	mg/kg	0.20	SW6020	12/12/12 15:09	PER	0.033	
Barium	20.4	mg/kg	1.0	SW6020	12/12/12 15:09	PER	0.18	
Cadmium	0.20	mg/kg	0.20	SW6020	12/12/12 15:09	PER	0.026	
Chromium	4.32	mg/kg	0.50	SW6020	12/12/12 15:09	PER	0.042	
Copper	12.6	mg/kg	0.50	SW6020	12/12/12 15:09	PER	0.097	
Lead	8.38	mg/kg	0.30	SW6020	12/12/12 15:09	PER	0.022	
Mercury	0.02	mg/kg	0.050	SW7471A	12/13/12 15:17	JRT	0.00074	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:09	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:09	PER	0.013	
Zinc	25.8	mg/kg	1.0	SW6020	12/12/12 15:09	PER	0.048	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:06	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.15 (continued)
Sample Tag: SB-110 (12/5/12) (24-25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:20	WAT	19	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 03:20	WAT	78	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	21	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:20	WAT	9.1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:20	WAT	16	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	21	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/14/12 03:20	WAT	21	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:20	WAT	31	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:20	WAT	47	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	20	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:20	WAT	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:20	WAT	9.9	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	15	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	13	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	12	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	17	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 03:20	WAT	270	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	8.3	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 03:20	WAT	32	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 03:20	WAT	18	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	9.9	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	16	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	15	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	16	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:20	WAT	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	7.4	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	9.1	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	26	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	24	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	11	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 03:20	WAT	17	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	9.1	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	19	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	36	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:20	WAT	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	24	

M-Result reported to MDL not RDL

Lab Sample ID: S54880.15 (continued)
Sample Tag: SB-110 (12/5/12) (24-25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	22	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	19	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	21	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	18	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	21	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	22	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	17	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	16	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:20	WAT	3.3	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:20	WAT	20	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 03:20	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:20	WAT	16	
1,2,4-Trichlorobenzene	Not detected	ug/kg	540	SW8260B/5035	12/14/12 03:20	WAT	19	
1,2,3-Trichlorobenzene	Not detected	ug/kg	540	SW8260B/5035	12/14/12 03:20	WAT	23	
Naphthalene	Not detected	ug/kg	540	SW8260B/5035	12/14/12 03:20	WAT	21	
2-Methylnaphthalene	Not detected	ug/kg	540	SW8260B/5035	12/14/12 03:20	WAT	23	

Analytical Laboratory Report

Lab Sample ID: S54880.16
Sample Tag: SB-111 (12/5/12) (11-12)
Collected Date/Time: 12/05/2012 15:18
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:10	JKB	0.6	
Total Solids	80	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	2.13	mg/kg	0.20	SW6020	12/12/12 15:11	PER	0.034	
Barium	47.2	mg/kg	1.0	SW6020	12/12/12 15:11	PER	0.19	
Cadmium	0.15	mg/kg	0.20	SW6020	12/12/12 15:11	PER	0.027	b
Chromium	5.16	mg/kg	0.50	SW6020	12/12/12 15:11	PER	0.043	
Copper	6.12	mg/kg	0.50	SW6020	12/12/12 15:11	PER	0.099	
Lead	6.79	mg/kg	0.30	SW6020	12/12/12 15:11	PER	0.023	
Mercury	0.02	mg/kg	0.050	SW7471A	12/13/12 15:19	JRT	0.00074	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:11	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:11	PER	0.014	
Zinc	15.9	mg/kg	1.0	SW6020	12/12/12 15:11	PER	0.050	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:25	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.16 (continued)
Sample Tag: SB-111 (12/5/12) (11-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:38	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 03:38	WAT	73	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:38	WAT	8.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:38	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	19	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/14/12 03:38	WAT	19	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:38	WAT	29	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:38	WAT	44	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:38	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:38	WAT	9.3	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	12	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	14	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	12	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 03:38	WAT	260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	7.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 03:38	WAT	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 03:38	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	9.3	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:38	WAT	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	7.0	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	8.5	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	22	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 03:38	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	8.5	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:38	WAT	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	22	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.16 (continued)
Sample Tag: SB-111 (12/5/12) (11-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	19	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:38	WAT	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:38	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 03:38	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:38	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 03:38	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 03:38	WAT	22	
Naphthalene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 03:38	WAT	19	
2-Methylnaphthalene	Not detected	ug/kg	510	SW8260B/5035	12/14/12 03:38	WAT	22	

Analytical Laboratory Report

Lab Sample ID: S54880.17
Sample Tag: SB-111 (12/5/12) (13-14)
Collected Date/Time: 12/05/2012 15:31
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 11:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:15	JKB	0.6	
Total Solids	81	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.33	mg/kg	0.20	SW6020	12/12/12 15:12	PER	0.034	
Barium	27.1	mg/kg	1.0	SW6020	12/12/12 15:12	PER	0.19	
Cadmium	0.22	mg/kg	0.20	SW6020	12/12/12 15:12	PER	0.027	
Chromium	3.91	mg/kg	0.50	SW6020	12/12/12 15:12	PER	0.044	
Copper	11.1	mg/kg	0.50	SW6020	12/12/12 15:12	PER	0.10	
Lead	7.41	mg/kg	0.30	SW6020	12/12/12 15:12	PER	0.023	
Mercury	0.02	mg/kg	0.050	SW7471A	12/13/12 15:21	JRT	0.00072	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:12	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:12	PER	0.014	
Zinc	23.6	mg/kg	1.0	SW6020	12/12/12 15:12	PER	0.050	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	29	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	14	
Fluoranthene	37	ug/kg	300	SW8270C	12/13/12 19:44	PL	20	J
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	15	
Pyrene	27	ug/kg	300	SW8270C	12/13/12 19:44	PL	18	J
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 19:44	PL	14	

b-Value detected less than reporting limit, but greater than MDL
J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.17 (continued)
Sample Tag: SB-111 (12/5/12) (13-14)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:56	WAT	19	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 03:56	WAT	78	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	21	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:56	WAT	9.2	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:56	WAT	16	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	21	
2-Butanone (MEK)	Not detected	ug/kg	1,300	SW8260B/5035	12/14/12 03:56	WAT	21	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:56	WAT	32	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:56	WAT	48	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	20	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 03:56	WAT	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:56	WAT	10	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	15	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	13	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	12	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	17	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 03:56	WAT	280	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	18	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	8.4	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 03:56	WAT	33	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 03:56	WAT	18	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	10	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	16	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	15	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	16	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	13	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:56	WAT	18	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	7.5	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	9.2	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	27	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	24	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	11	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 03:56	WAT	17	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	9.2	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	19	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	37	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	18	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:56	WAT	18	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	24	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.17 (continued)
Sample Tag: SB-111 (12/5/12) (13-14)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	23	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	19	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	21	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	22	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	18	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	18	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	21	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	23	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	17	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	16	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	22	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 03:56	WAT	3.3	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 03:56	WAT	20	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 03:56	WAT	13	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 03:56	WAT	16	
1,2,4-Trichlorobenzene	Not detected	ug/kg	550	SW8260B/5035	12/14/12 03:56	WAT	19	
1,2,3-Trichlorobenzene	Not detected	ug/kg	550	SW8260B/5035	12/14/12 03:56	WAT	23	
Naphthalene	Not detected	ug/kg	550	SW8260B/5035	12/14/12 03:56	WAT	21	
2-Methylnaphthalene	Not detected	ug/kg	550	SW8260B/5035	12/14/12 03:56	WAT	23	

Analytical Laboratory Report

Lab Sample ID: S54880.18
Sample Tag: SB-111 (12/5/12) (24.5-25.5)
Collected Date/Time: 12/05/2012 15:46
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:20	JKB	0.6	
Total Solids	81	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	2.33	mg/kg	0.20	SW6020	12/12/12 15:37	PER	0.034	
Barium	6.23	mg/kg	1.0	SW6020	12/12/12 15:37	PER	0.19	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 15:37	PER	0.027	
Chromium	1.12	mg/kg	0.50	SW6020	12/12/12 15:37	PER	0.043	
Copper	4.88	mg/kg	0.50	SW6020	12/12/12 15:37	PER	0.099	
Lead	3.52	mg/kg	0.30	SW6020	12/12/12 15:37	PER	0.022	
Mercury	0.01	mg/kg	0.050	SW7471A	12/13/12 15:23	JRT	0.00071	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:37	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:37	PER	0.013	
Zinc	11.0	mg/kg	1.0	SW6020	12/12/12 15:37	PER	0.049	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	29	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:03	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.18 (continued)
Sample Tag: SB-111 (12/5/12) (24.5-25.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:14	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 04:14	WAT	74	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/14/12 04:14	WAT	8.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:14	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/14/12 04:14	WAT	20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 04:14	WAT	30	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 04:14	WAT	45	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:14	WAT	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 04:14	WAT	9.4	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	14	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	13	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/14/12 04:14	WAT	260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	7.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 04:14	WAT	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/14/12 04:14	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	9.4	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 04:14	WAT	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	7.0	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	8.6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 04:14	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	8.6	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/14/12 04:14	WAT	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	23	

M-Result reported to MDL not RDL

Lab Sample ID: S54880.18 (continued)
Sample Tag: SB-111 (12/5/12) (24.5-25.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/14/12 04:14	WAT	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/14/12 04:14	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/14/12 04:14	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 04:14	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	12/14/12 04:14	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	12/14/12 04:14	WAT	22	
Naphthalene	Not detected	ug/kg	520	SW8260B/5035	12/14/12 04:14	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	520	SW8260B/5035	12/14/12 04:14	WAT	22	

Analytical Laboratory Report

Lab Sample ID: S54880.19
Sample Tag: SB-112 (12/6/12) (3.5-4.5)
Collected Date/Time: 12/06/2012 11:41
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:25	JKB	0.6	
Total Solids	89	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.24	mg/kg	0.20	SW6020	12/12/12 15:39	PER	0.032	
Barium	22.4	mg/kg	1.0	SW6020	12/12/12 15:39	PER	0.17	
Cadmium	0.12	mg/kg	0.20	SW6020	12/12/12 15:39	PER	0.025	b
Chromium	3.64	mg/kg	0.50	SW6020	12/12/12 15:39	PER	0.040	
Copper	5.92	mg/kg	0.50	SW6020	12/12/12 15:39	PER	0.092	
Lead	3.88	mg/kg	0.30	SW6020	12/12/12 15:39	PER	0.021	
Mercury	0.04	mg/kg	0.050	SW7471A	12/13/12 15:35	JRT	0.00064	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:39	PER	0.099	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:39	PER	0.013	
Zinc	8.15	mg/kg	1.0	SW6020	12/12/12 15:39	PER	0.046	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	120	ug/kg	400	SW8270C	12/14/12 01:46	PL	44	XJ
Acenaphthylene	Not detected	ug/kg	400	SW8270C	12/14/12 01:46	PL	51	X
Anthracene	247	ug/kg	400	SW8270C	12/14/12 01:46	PL	51	XJ
Benzo(a)anthracene	800	ug/kg	400	SW8270C	12/14/12 01:46	PL	59	X
Benzo(a)pyrene	700	ug/kg	400	SW8270C	12/14/12 01:46	PL	51	X
Benzo(b)fluoranthene	500	ug/kg	400	SW8270C	12/14/12 01:46	PL	110	X
Benzo(k)fluoranthene	600	ug/kg	400	SW8270C	12/14/12 01:46	PL	88	X
Benzo(ghi)perylene	390	ug/kg	400	SW8270C	12/14/12 01:46	PL	57	XJ
Chrysene	700	ug/kg	400	SW8270C	12/14/12 01:46	PL	68	X
Dibenzo(ah)anthracene	Not detected	ug/kg	400	SW8270C	12/14/12 01:46	PL	42	X
Fluoranthene	1,600	ug/kg	400	SW8270C	12/14/12 01:46	PL	62	X
Fluorene	217	ug/kg	400	SW8270C	12/14/12 01:46	PL	44	XJ
Indeno(1,2,3-cd)pyrene	382	ug/kg	400	SW8270C	12/14/12 01:46	PL	45	XJ
Naphthalene	Not detected	ug/kg	400	SW8270C	12/14/12 01:46	PL	52	X
Phenanthrene	1,200	ug/kg	400	SW8270C	12/14/12 01:46	PL	45	X
Pyrene	1,400	ug/kg	400	SW8270C	12/14/12 01:46	PL	55	X
2-Methylnaphthalene	Not detected	ug/kg	400	SW8270C	12/14/12 01:46	PL	61	X
1-Methylnaphthalene	Not detected	ug/kg	400	SW8270C	12/14/12 01:46	PL	43	X

b-Value detected less than reporting limit, but greater than MDL
X-Elevated reporting limit due to matrix interference J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.19 (continued)
Sample Tag: SB-112 (12/6/12) (3.5-4.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	15	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 04:33	WAT	63	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	7.4	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	17	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 04:33	WAT	17	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	26	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	38	
Vinyl chloride	80	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	8.1	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	12	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	11	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	11	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	9.4	
cis-1,2-Dichloroethene	130	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	13	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 04:33	WAT	220	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	11	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	6.7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/14/12 04:33	WAT	26	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/14/12 04:33	WAT	15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	8.1	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	6.0	
Toluene	400	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	7.4	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	11	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	19	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	8.7	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/14/12 04:33	WAT	13	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	7.4	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	15	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	11	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	8.7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	19	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.19 (continued)
Sample Tag: SB-112 (12/6/12) (3.5-4.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	15	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	17	
1,3,5-Trimethylbenzene	300	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	17	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	14	
1,2,4-Trimethylbenzene	600	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	13	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	17	
1,2,3-Trimethylbenzene	300	ug/kg	100	SW8260B/5035	12/14/12 04:33	WAT	2.7	
n-Butylbenzene	250	ug/kg	70	SW8260B/5035	12/14/12 04:33	WAT	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/14/12 04:33	WAT	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 04:33	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	440	SW8260B/5035	12/14/12 04:33	WAT	15	
1,2,3-Trichlorobenzene	Not detected	ug/kg	440	SW8260B/5035	12/14/12 04:33	WAT	19	
Naphthalene	840	ug/kg	440	SW8260B/5035	12/14/12 04:33	WAT	17	
2-Methylnaphthalene	3,120	ug/kg	440	SW8260B/5035	12/14/12 04:33	WAT	19	

Analytical Laboratory Report

Lab Sample ID: S54880.20
Sample Tag: SB-112 (12/6/12) (8.5-9.5)
Collected Date/Time: 12/06/2012 11:54
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:30	JKB	0.6	
Total Solids	84	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.09	mg/kg	0.20	SW6020	12/12/12 15:40	PER	0.032	
Barium	8.32	mg/kg	1.0	SW6020	12/12/12 15:40	PER	0.18	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 15:40	PER	0.026	
Chromium	0.73	mg/kg	0.50	SW6020	12/12/12 15:40	PER	0.041	
Copper	1.70	mg/kg	0.50	SW6020	12/12/12 15:40	PER	0.095	
Lead	1.94	mg/kg	0.30	SW6020	12/12/12 15:40	PER	0.022	
Mercury	0.01	mg/kg	0.050	SW7471A	12/13/12 15:37	JRT	0.00070	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:40	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:40	PER	0.013	
Zinc	3.96	mg/kg	1.0	SW6020	12/12/12 15:40	PER	0.048	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	36	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	28	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	19	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:22	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.20 (continued)
Sample Tag: SB-112 (12/6/12) (8.5-9.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/13/12 15:42	WAT	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/13/12 15:42	WAT	72	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/13/12 15:42	WAT	8.4	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/13/12 15:42	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	19	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/13/12 15:42	WAT	19	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 15:42	WAT	29	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 15:42	WAT	44	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	18	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 15:42	WAT	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 15:42	WAT	9.2	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	12	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	14	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	12	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	15	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/13/12 15:42	WAT	250	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	7.7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 15:42	WAT	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 15:42	WAT	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	9.2	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	12	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 15:42	WAT	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	6.9	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	8.4	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	22	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	10.0	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/13/12 15:42	WAT	15	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	8.4	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/13/12 15:42	WAT	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	10.0	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	22	

M-Result reported to MDL not RDL

Lab Sample ID: S54880.20 (continued)
Sample Tag: SB-112 (12/6/12) (8.5-9.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	19	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	15	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 15:42	WAT	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 15:42	WAT	18	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/13/12 15:42	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 15:42	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/13/12 15:42	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/13/12 15:42	WAT	22	
Naphthalene	Not detected	ug/kg	510	SW8260B/5035	12/13/12 15:42	WAT	19	
2-Methylnaphthalene	Not detected	ug/kg	510	SW8260B/5035	12/13/12 15:42	WAT	22	

Analytical Laboratory Report

Lab Sample ID: S54880.21
Sample Tag: SB-112 (12/6/12) (24-25)
Collected Date/Time: 12/06/2012 12:16
Matrix: Soil
COC Reference: 82696

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:35	JKB	0.6	
Total Solids	90	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.03	mg/kg	0.20	SW6020	12/12/12 15:42	PER	0.031	
Barium	23.6	mg/kg	1.0	SW6020	12/12/12 15:42	PER	0.17	
Cadmium	0.12	mg/kg	0.20	SW6020	12/12/12 15:42	PER	0.025	b
Chromium	14.5	mg/kg	0.50	SW6020	12/12/12 15:42	PER	0.039	
Copper	8.46	mg/kg	0.50	SW6020	12/12/12 15:42	PER	0.091	
Lead	3.85	mg/kg	0.30	SW6020	12/12/12 15:42	PER	0.021	
Mercury	0.02	mg/kg	0.050	SW7471A	12/13/12 15:39	JRT	0.00065	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:42	PER	0.097	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:42	PER	0.012	
Zinc	10.4	mg/kg	1.0	SW6020	12/12/12 15:42	PER	0.045	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	400	ug/kg	700	SW8270C	12/14/12 02:24	PL	87	JX
Acenaphthylene	Not detected	ug/kg	700	SW8270C	12/14/12 02:24	PL	100	X
Anthracene	340	ug/kg	700	SW8270C	12/14/12 02:24	PL	100	JX
Benzo(a)anthracene	670	ug/kg	700	SW8270C	12/14/12 02:24	PL	120	JX
Benzo(a)pyrene	400	ug/kg	700	SW8270C	12/14/12 02:24	PL	100	JX
Benzo(b)fluoranthene	800	ug/kg	700	SW8270C	12/14/12 02:24	PL	230	Xp
Benzo(k)fluoranthene	900	ug/kg	700	SW8270C	12/14/12 02:24	PL	170	Xp
Benzo(ghi)perylene	300	ug/kg	700	SW8270C	12/14/12 02:24	PL	110	JX
Chrysene	550	ug/kg	700	SW8270C	12/14/12 02:24	PL	130	JX
Dibenzo(ah)anthracene	Not detected	ug/kg	700	SW8270C	12/14/12 02:24	PL	83	X
Fluoranthene	1,700	ug/kg	700	SW8270C	12/14/12 02:24	PL	120	X
Fluorene	400	ug/kg	700	SW8270C	12/14/12 02:24	PL	87	JX
Indeno(1,2,3-cd)pyrene	267	ug/kg	700	SW8270C	12/14/12 02:24	PL	89	JX
Naphthalene	Not detected	ug/kg	700	SW8270C	12/14/12 02:24	PL	100	X
Phenanthrene	2,100	ug/kg	700	SW8270C	12/14/12 02:24	PL	89	X
Pyrene	1,300	ug/kg	700	SW8270C	12/14/12 02:24	PL	110	X
2-Methylnaphthalene	330	ug/kg	700	SW8270C	12/14/12 02:24	PL	120	JX

b-Value detected less than reporting limit, but greater than MDL
J-Estimated value less than reporting limit, but greater than MDL X-Elevated reporting limit due to matrix interference
p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

Lab Sample ID: S54880.21 (continued)
Sample Tag: SB-112 (12/6/12) (24-25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatics (continued)								
1-Methylnaphthalene	207	ug/kg	700	SW8270C	12/14/12 02:24	PL	84	JX
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:01	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:01	WAT	66	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:01	WAT	7.8	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:01	WAT	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	12/13/12 16:01	WAT	18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:01	WAT	27	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:01	WAT	40	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:01	WAT	11	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:01	WAT	8.5	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	13	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	11	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	9.9	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:01	WAT	230	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	7.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 16:01	WAT	28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 16:01	WAT	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	8.5	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:01	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	6.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	7.8	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	20	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	9.2	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/13/12 16:01	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	7.8	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	31	

J-Estimated value less than reporting limit, but greater than MDL X-Elevated reporting limit due to matrix interference
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.21 (continued)
Sample Tag: SB-112 (12/6/12) (24-25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:01	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	9.2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	20	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	15	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	18	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:01	WAT	2.8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:01	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:01	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:01	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	12/13/12 16:01	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	12/13/12 16:01	WAT	20	
Naphthalene	470	ug/kg	470	SW8260B/5035	12/13/12 16:01	WAT	18	
2-Methylnaphthalene	1,100	ug/kg	470	SW8260B/5035	12/13/12 16:01	WAT	20	

Analytical Laboratory Report

Lab Sample ID: S54880.22
Sample Tag: SB-113 (12/6/12) (4-6)
Collected Date/Time: 12/06/2012 15:11
Matrix: Soil
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:40	JKB	0.6	
Total Solids	86	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	0.52	mg/kg	0.20	SW6020	12/12/12 15:44	PER	0.032	
Barium	21.0	mg/kg	1.0	SW6020	12/12/12 15:44	PER	0.18	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 15:44	PER	0.025	
Chromium	1.94	mg/kg	0.50	SW6020	12/12/12 15:44	PER	0.040	
Copper	6.96	mg/kg	0.50	SW6020	12/12/12 15:44	PER	0.093	
Lead	5.82	mg/kg	0.30	SW6020	12/12/12 15:44	PER	0.021	
Mercury	0.01	mg/kg	0.050	SW7471A	12/13/12 15:41	JRT	0.00068	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:44	PER	0.099	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:44	PER	0.013	
Zinc	8.91	mg/kg	1.0	SW6020	12/12/12 15:44	PER	0.046	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	69	X
Acenaphthylene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	79	X
Anthracene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	79	X
Benzo(a)anthracene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	92	X
Benzo(a)pyrene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	79	X
Benzo(b)fluoranthene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	180	X
Benzo(k)fluoranthene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	140	X
Benzo(ghi)perylene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	88	X
Chrysene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	110	X
Dibenzo(ah)anthracene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	65	X
Fluoranthene	140	ug/kg	600	SW8270C	12/14/12 02:05	PL	97	JX
Fluorene	337	ug/kg	600	SW8270C	12/14/12 02:05	PL	69	JX
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	70	X
Naphthalene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	81	X
Phenanthrene	1,000	ug/kg	600	SW8270C	12/14/12 02:05	PL	70	X
Pyrene	151	ug/kg	600	SW8270C	12/14/12 02:05	PL	86	JX
2-Methylnaphthalene	140	ug/kg	600	SW8270C	12/14/12 02:05	PL	94	JX

b-Value detected less than reporting limit, but greater than MDL
X-Elevated reporting limit due to matrix interference
J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.22 (continued)
Sample Tag: SB-113 (12/6/12) (4-6)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatics (continued)								
1-Methylnaphthalene	Not detected	ug/kg	600	SW8270C	12/14/12 02:05	PL	66	X
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:19	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:19	WAT	67	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:19	WAT	7.9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:19	WAT	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	12/13/12 16:19	WAT	18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:19	WAT	27	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:19	WAT	41	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:19	WAT	11	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:19	WAT	8.6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	13	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	11	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	10	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:19	WAT	240	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	7.2	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 16:19	WAT	28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 16:19	WAT	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	8.6	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:19	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	6.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	7.9	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	21	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	9.3	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/13/12 16:19	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	7.9	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	32	

X-Elevated reporting limit due to matrix interference
M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.22 (continued)
Sample Tag: SB-113 (12/6/12) (4-6)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:19	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	9.3	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	21	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	19	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	15	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	19	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:19	WAT	2.9	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:19	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:19	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:19	WAT	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	12/13/12 16:19	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	12/13/12 16:19	WAT	20	
Naphthalene	Not detected	ug/kg	470	SW8260B/5035	12/13/12 16:19	WAT	18	
2-Methylnaphthalene	560	ug/kg	470	SW8260B/5035	12/13/12 16:19	WAT	20	

Analytical Laboratory Report

Lab Sample ID: S54880.23
Sample Tag: SB-113 (12/6/12) (10-11)
Collected Date/Time: 12/06/2012 15:22
Matrix: Soil
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:45	JKB	0.6	
Total Solids	94	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	0.58	mg/kg	0.20	SW6020	12/12/12 15:45	PER	0.028	
Barium	5.96	mg/kg	1.0	SW6020	12/12/12 15:45	PER	0.16	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 15:45	PER	0.023	
Chromium	0.55	mg/kg	0.50	SW6020	12/12/12 15:45	PER	0.036	
Copper	0.73	mg/kg	0.50	SW6020	12/12/12 15:45	PER	0.083	
Lead	1.08	mg/kg	0.30	SW6020	12/12/12 15:45	PER	0.019	
Mercury	0.002	mg/kg	0.050	SW7471A	12/13/12 15:43	JRT	0.00064	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:45	PER	0.089	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:45	PER	0.011	
Zinc	2.03	mg/kg	1.0	SW6020	12/12/12 15:45	PER	0.042	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	13	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	14	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	14	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	17	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	14	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	32	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	25	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	16	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	19	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	12	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	18	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	13	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	13	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	15	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	13	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	16	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	17	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 20:41	PL	12	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.23 (continued)
Sample Tag: SB-113 (12/6/12) (10-11)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/13/12 16:37	WAT	14	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:37	WAT	55	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	15	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:37	WAT	6.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/13/12 16:37	WAT	11	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	15	
2-Butanone (MEK)	Not detected	ug/kg	890	SW8260B/5035	12/13/12 16:37	WAT	15	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:37	WAT	22	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:37	WAT	34	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	14	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 16:37	WAT	9.4	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:37	WAT	7.1	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	9.4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	11	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	9.4	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	10	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	8.3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	12	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:37	WAT	190	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	10	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	12	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	5.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 16:37	WAT	23	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 16:37	WAT	13	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	7.1	
Benzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	11	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	11	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	9.4	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	11	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	8.9	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:37	WAT	12	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	5.3	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	9.4	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	6.5	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	19	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	10	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	17	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	7.7	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	12/13/12 16:37	WAT	12	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	11	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	6.5	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	14	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	26	
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	12	
Styrene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	10	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:37	WAT	12	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	7.7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	17	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.23 (continued)
Sample Tag: SB-113 (12/6/12) (10-11)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	16	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	14	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	15	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	15	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	12	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	13	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	15	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	16	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	12	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	11	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	15	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:37	WAT	2.4	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 16:37	WAT	14	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:37	WAT	8.9	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:37	WAT	11	
1,2,4-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	12/13/12 16:37	WAT	14	
1,2,3-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	12/13/12 16:37	WAT	17	
Naphthalene	Not detected	ug/kg	390	SW8260B/5035	12/13/12 16:37	WAT	15	
2-Methylnaphthalene	Not detected	ug/kg	390	SW8260B/5035	12/13/12 16:37	WAT	17	

Analytical Laboratory Report

Lab Sample ID: S54880.24
Sample Tag: SB-113 (12/6/12) (23-24)
Collected Date/Time: 12/06/2012 15:47
Matrix: Soil
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:50	JKB	0.6	
Total Solids	83	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.82	mg/kg	0.20	SW6020	12/12/12 15:47	PER	0.033	
Barium	5.77	mg/kg	1.0	SW6020	12/12/12 15:47	PER	0.18	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 15:47	PER	0.027	
Chromium	0.97	mg/kg	0.50	SW6020	12/12/12 15:47	PER	0.042	
Copper	3.74	mg/kg	0.50	SW6020	12/12/12 15:47	PER	0.098	
Lead	2.31	mg/kg	0.30	SW6020	12/12/12 15:47	PER	0.022	
Mercury	0.005	mg/kg	0.050	SW7471A	12/13/12 15:45	JRT	0.00072	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:47	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:47	PER	0.013	
Zinc	9.36	mg/kg	1.0	SW6020	12/12/12 15:47	PER	0.049	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	37	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	28	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:00	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.24 (continued)
Sample Tag: SB-113 (12/6/12) (23-24)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:56	WAT	65	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	7.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	17	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:56	WAT	17	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	26	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	39	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	8.3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	12	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	11	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	9.6	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 16:56	WAT	230	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	6.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 16:56	WAT	27	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 16:56	WAT	15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	8.3	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	6.2	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	7.6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	20	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	8.9	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/13/12 16:56	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	7.6	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	8.9	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	20	

M-Result reported to MDL not RDL

Lab Sample ID: S54880.24 (continued)
Sample Tag: SB-113 (12/6/12) (23-24)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	18	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 16:56	WAT	2.8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/13/12 16:56	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 16:56	WAT	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 16:56	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	12/13/12 16:56	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	12/13/12 16:56	WAT	19	
Naphthalene	Not detected	ug/kg	450	SW8260B/5035	12/13/12 16:56	WAT	17	
2-Methylnaphthalene	Not detected	ug/kg	450	SW8260B/5035	12/13/12 16:56	WAT	19	

Analytical Laboratory Report

Lab Sample ID: S54880.25
Sample Tag: Dup-1 (12/4/12)
Collected Date/Time: 12/04/2012 00:01
Matrix: Soil
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:15	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 11:55	JKB	0.6	
Total Solids	80	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.47	mg/kg	0.20	SW6020	12/12/12 15:54	PER	0.033	
Barium	25.0	mg/kg	1.0	SW6020	12/12/12 15:54	PER	0.18	
Cadmium	0.18	mg/kg	0.20	SW6020	12/12/12 15:54	PER	0.026	b
Chromium	2.65	mg/kg	0.50	SW6020	12/12/12 15:54	PER	0.042	
Copper	8.88	mg/kg	0.50	SW6020	12/12/12 15:54	PER	0.096	
Lead	6.55	mg/kg	0.30	SW6020	12/12/12 15:54	PER	0.022	
Mercury	0.02	mg/kg	0.050	SW7471A	12/13/12 15:47	JRT	0.00073	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:54	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:54	PER	0.013	
Zinc	18.6	mg/kg	1.0	SW6020	12/12/12 15:54	PER	0.048	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:19	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.25 (continued)
Sample Tag: Dup-1 (12/4/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:14	WAT	19	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/13/12 17:14	WAT	77	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:14	WAT	9.0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:14	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/13/12 17:14	WAT	20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:14	WAT	31	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:14	WAT	46	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	20	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:14	WAT	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:14	WAT	9.8	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	15	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	13	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/13/12 17:14	WAT	270	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	8.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 17:14	WAT	32	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 17:14	WAT	18	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	9.8	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	15	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:14	WAT	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	7.3	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	9.0	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	26	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	24	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	11	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/13/12 17:14	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	9.0	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	19	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	36	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:14	WAT	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	24	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.25 (continued)
Sample Tag: Dup-1 (12/4/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	22	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	19	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	18	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	22	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:14	WAT	3.3	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:14	WAT	20	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/13/12 17:14	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:14	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	540	SW8260B/5035	12/13/12 17:14	WAT	19	
1,2,3-Trichlorobenzene	Not detected	ug/kg	540	SW8260B/5035	12/13/12 17:14	WAT	23	
Naphthalene	Not detected	ug/kg	540	SW8260B/5035	12/13/12 17:14	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	540	SW8260B/5035	12/13/12 17:14	WAT	23	

Analytical Laboratory Report

Lab Sample ID: S54880.26
Sample Tag: Dup-2 (12/4/12)
Collected Date/Time: 12/04/2012 00:01
Matrix: Soil
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 12:00	JKB	0.6	
Total Solids	93	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	0.83	mg/kg	0.20	SW6020	12/12/12 15:56	PER	0.030	
Barium	7.32	mg/kg	1.0	SW6020	12/12/12 15:56	PER	0.16	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/12/12 15:56	PER	0.024	
Chromium	1.82	mg/kg	0.50	SW6020	12/12/12 15:56	PER	0.038	
Copper	1.40	mg/kg	0.50	SW6020	12/12/12 15:56	PER	0.087	
Lead	2.05	mg/kg	0.30	SW6020	12/12/12 15:56	PER	0.020	
Mercury	0.01	mg/kg	0.050	SW7471A	12/13/12 16:03	JRT	0.00064	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:56	PER	0.093	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:56	PER	0.012	
Zinc	3.07	mg/kg	1.0	SW6020	12/12/12 15:56	PER	0.044	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	21	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	24	
Anthracene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	24	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	28	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	24	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	54	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	42	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	27	
Chrysene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	33	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	20	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	30	
Fluorene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	21	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	22	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	25	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	22	
Pyrene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	27	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	29	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/14/12 01:27	PL	20	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54880.26 (continued)
Sample Tag: Dup-2 (12/4/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	15	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 17:33	WAT	61	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	16	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	7.1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	12	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	16	
2-Butanone (MEK)	Not detected	ug/kg	970	SW8260B/5035	12/13/12 17:33	WAT	16	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	24	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	37	
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	15	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	10	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	7.7	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	10	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	12	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	10	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	11	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	9.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	13	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 17:33	WAT	210	
Chloroform	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	11	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	14	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	6.4	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 17:33	WAT	25	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 17:33	WAT	14	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	7.7	
Benzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	12	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	12	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	10	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	12	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	9.7	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	5.8	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	10	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	7.1	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	21	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	11	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	19	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	8.4	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/13/12 17:33	WAT	13	M
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	7.1	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	15	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	28	
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	14	
Styrene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	11	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	8.4	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	19	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.26 (continued)
Sample Tag: Dup-2 (12/4/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	17	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	15	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	16	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	17	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	14	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	16	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	17	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	13	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	12	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	17	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 17:33	WAT	2.6	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/13/12 17:33	WAT	15	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:33	WAT	9.7	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:33	WAT	12	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	12/13/12 17:33	WAT	15	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	12/13/12 17:33	WAT	18	
Naphthalene	Not detected	ug/kg	430	SW8260B/5035	12/13/12 17:33	WAT	16	
2-Methylnaphthalene	Not detected	ug/kg	430	SW8260B/5035	12/13/12 17:33	WAT	18	

Analytical Laboratory Report

Lab Sample ID: S54880.27
Sample Tag: Dup-3 (12/5/12)
Collected Date/Time: 12/05/2012 00:01
Matrix: Soil
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.4	IR
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/13/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/12/12 12:00	PER		
PNA Extraction	Completed			3550B	12/12/12 23:07	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/14/12 12:05	JKB	0.6	
Total Solids	77	%	1	Std M 2540 B	12/10/12 11:00	RGS		
Metals								
Arsenic	1.07	mg/kg	0.20	SW6020	12/12/12 15:57	PER	0.037	
Barium	35.1	mg/kg	1.0	SW6020	12/12/12 15:57	PER	0.20	
Cadmium	0.14	mg/kg	0.20	SW6020	12/12/12 15:57	PER	0.029	b
Chromium	3.63	mg/kg	0.50	SW6020	12/12/12 15:57	PER	0.046	
Copper	6.47	mg/kg	0.50	SW6020	12/12/12 15:57	PER	0.11	
Lead	6.22	mg/kg	0.30	SW6020	12/12/12 15:57	PER	0.024	
Mercury	0.02	mg/kg	0.050	SW7471A	12/13/12 16:01	JRT	0.00076	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/12/12 15:57	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/12/12 15:57	PER	0.015	
Zinc	12.9	mg/kg	1.0	SW6020	12/12/12 15:57	PER	0.054	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	18	
Anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	18	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	21	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	18	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	39	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	31	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	20	
Chrysene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	24	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	15	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	22	
Fluorene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	16	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	16	
Pyrene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/13/12 21:38	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Lab Sample ID: S54880.27 (continued)
Sample Tag: Dup-3 (12/5/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:51	WAT	19	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/13/12 17:51	WAT	76	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:51	WAT	8.9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:51	WAT	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	12/13/12 17:51	WAT	20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:51	WAT	31	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:51	WAT	46	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 17:51	WAT	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:51	WAT	9.7	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	15	
Methylene chloride	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	13	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	12/13/12 17:51	WAT	270	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	8.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 17:51	WAT	32	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/13/12 17:51	WAT	18	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	9.7	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	15	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:51	WAT	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	7.3	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	8.9	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	26	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	11	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/13/12 17:51	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	8.9	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	19	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	36	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:51	WAT	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	23	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.27 (continued)
Sample Tag: Dup-3 (12/5/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	22	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	19	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	18	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	22	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/13/12 17:51	WAT	3.2	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/13/12 17:51	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/13/12 17:51	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/13/12 17:51	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	530	SW8260B/5035	12/13/12 17:51	WAT	19	
1,2,3-Trichlorobenzene	Not detected	ug/kg	530	SW8260B/5035	12/13/12 17:51	WAT	23	
Naphthalene	Not detected	ug/kg	530	SW8260B/5035	12/13/12 17:51	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	530	SW8260B/5035	12/13/12 17:51	WAT	23	

Analytical Laboratory Report

Lab Sample ID: S54880.28
Sample Tag: Trip Blank (12/4/12)
Collected Date/Time: 12/04/2012 00:01
Matrix: Methanol
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:10	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 18:10	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:10	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:10	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	12/13/12 18:10	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:10	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:10	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:10	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:10	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	9.0	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	8.0	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 18:10	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 18:10	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 18:10	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:10	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	12/13/12 18:10	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	5.5	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.28 (continued)
Sample Tag: Trip Blank (12/4/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:10	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:10	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:10	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:10	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:10	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:10	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:10	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:10	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:10	WAT	14	

Analytical Laboratory Report

Lab Sample ID: S54880.29
Sample Tag: Field Blank (12/4/12)
Collected Date/Time: 12/04/2012 00:01
Matrix: Methanol
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:28	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 18:28	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:28	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:28	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	12/13/12 18:28	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:28	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:28	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:28	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:28	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	9.0	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	8.0	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 18:28	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 18:28	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 18:28	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:28	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	12/13/12 18:28	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	5.5	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.29 (continued)
Sample Tag: Field Blank (12/4/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:28	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:28	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:28	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:28	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:28	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:28	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:28	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:28	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:28	WAT	14	

Analytical Laboratory Report

Lab Sample ID: S54880.30
Sample Tag: Trip Blank (12/5/12)
Collected Date/Time: 12/05/2012 00:01
Matrix: Methanol
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:47	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 18:47	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:47	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:47	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	12/13/12 18:47	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:47	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:47	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 18:47	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:47	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	9.0	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	8.0	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 18:47	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 18:47	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 18:47	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:47	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	12/13/12 18:47	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	5.5	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.30 (continued)
Sample Tag: Trip Blank (12/5/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:47	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 18:47	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 18:47	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:47	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 18:47	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:47	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:47	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:47	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 18:47	WAT	14	

Analytical Laboratory Report

Lab Sample ID: S54880.31
Sample Tag: Field Blank (12/5/12)
Collected Date/Time: 12/05/2012 00:01
Matrix: Methanol
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/13/12 19:05	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 19:05	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/13/12 19:05	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/13/12 19:05	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	12/13/12 19:05	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 19:05	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 19:05	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/13/12 19:05	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 19:05	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	9.0	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	8.0	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/13/12 19:05	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 19:05	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/13/12 19:05	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 19:05	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	12/13/12 19:05	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	5.5	

M-Result reported to MDL not RDL

Lab Sample ID: S54880.31 (continued)
Sample Tag: Field Blank (12/5/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/13/12 19:05	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/13/12 19:05	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/13/12 19:05	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 19:05	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/13/12 19:05	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 19:05	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 19:05	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 19:05	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/13/12 19:05	WAT	14	

Analytical Laboratory Report

Lab Sample ID: S54880.32
Sample Tag: Trip Blank (12/6/12)
Collected Date/Time: 12/06/2012 00:01
Matrix: Methanol
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:00	JGH	12	
Acetone	111	ug/kg	1,000	SW8260B/5035	12/16/12 12:00	JGH	47	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:00	JGH	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:00	JGH	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	13	
2-Butanone (MEK)	55	ug/kg	750	SW8260B/5035	12/16/12 12:00	JGH	13	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:00	JGH	19	
Chloromethane	102	ug/kg	300	SW8260B/5035	12/16/12 12:00	JGH	29	JB
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:00	JGH	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:00	JGH	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	9.0	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	8.0	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	10	
Tetrahydrofuran	250	ug/kg	1,000	SW8260B/5035	12/16/12 12:00	JGH	170	JB
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 12:00	JGH	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 12:00	JGH	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:00	JGH	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	6.5	
1,2-Dibromoethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	10	
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	5.5	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54880.32 (continued)
Sample Tag: Trip Blank (12/6/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:00	JGH	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:00	JGH	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 12:00	JGH	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:00	JGH	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:00	JGH	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 12:00	JGH	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 12:00	JGH	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 12:00	JGH	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 12:00	JGH	14	

Analytical Laboratory Report

Lab Sample ID: S54880.33
Sample Tag: Field Blank (12/6/12)
Collected Date/Time: 12/06/2012 00:01
Matrix: Methanol
COC Reference: 82697

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/14/12 05:09	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 05:09	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/14/12 05:09	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/14/12 05:09	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	12/14/12 05:09	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 05:09	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 05:09	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/14/12 05:09	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 05:09	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	9.0	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	8.0	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	12/14/12 05:09	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/14/12 05:09	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/14/12 05:09	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 05:09	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	12/14/12 05:09	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	5.5	

M-Result reported to MDL not RDL

Analytical Laboratory Report

Lab Sample ID: S54880.33 (continued)
Sample Tag: Field Blank (12/6/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/14/12 05:09	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/14/12 05:09	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/14/12 05:09	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 05:09	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/14/12 05:09	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/14/12 05:09	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/14/12 05:09	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/14/12 05:09	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/14/12 05:09	WAT	14	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 3

82699

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc.
ADDRESS: 6-4300 S. Saginaw St.
CITY: Burton | STATE: MI | ZIP CODE: 48529
PHONE NO.: 810-715-2525 | FAX NO.: 810-715-2526 | P.O. NO.: 128083
E-MAIL ADDRESS: ac-[redacted]mds@yahoo.com | QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER | ☐ SAME
COMPANY:
ADDRESS:
CITY: | STATE: | ZIP CODE:
PHONE NO.: | E-MAIL ADDRESS:

PROJECT NO./NAME: 11-4317-102 / RACER - Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / Josh Adams

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE ONLY)	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	PNAs	10 Metals	Hex Chromium	Special Instructions
54880.01	12/4/12	13:21	SB-105 (12/4/12) (7-8)	S	2	1					1		X	X	X	X	Task #2
.02		13:32	SB-105 (12/4/12) (10-11)														
.03		13:51	SB-105 (12/4/12) (23-24)														
.04		14:36	SB-106 (12/4/12) (8-9)														
.05		14:45	SB-106 (12/4/12) (13-14)														
.06		14:56	SB-106 (12/4/12) (24-25)														
.07		15:19	SB-107 (12/4/12) (6-7)														
.08		15:36	SB-107 (12/4/12) (13-14)														
.09		15:43	SB-107 (12/4/12) (17-18)														
		~~16:15~~	~~SB-108 (12/4/12) (6-7)~~														~~Task #1~~ Moved
		~~16:24~~	~~SB-108 (12/4/12) (14-15)~~														~~Task #1~~ to a
		~~16:31~~	~~SB-108 (12/4/12) (20-21)~~														~~Task #1~~ different chain

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Josh Adams / Applied EcoSystems, Inc. (☒ Sampler)	DATE: 12/7/12	TIME: 2:55pm
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:
RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION:	DATE:	TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: Andrew Hall	DATE: 07/08/12	TIME: 1500
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS

NOTES: TEMP. ON ARRIVAL 5.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 2 OF 3

82696

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc.
ADDRESS: 6-4300 S. Saginaw St.
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 128083
E-MAIL ADDRESS: ae_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 11-4317-102 / RACER - Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / Josh Adams

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PNAs	10 Metals	Hex Chromium	Special Instructions
54380.10	12/5/12	10:18	SB-109 (12/5/12) (4-5)	S	2	1					1		X	X	X	X	Task #2
.11		10:27	SB-109 (12/5/12) (12-13)														
.12		10:34	SB-109 (12/5/12) (18-19)														
.13		12:25	SB-110 (12/5/12) (12-13)														
.14		12:46	SB-110 (12/5/12) (15-16)														
.15		13:03	SB-110 (12/5/12) (24-25)														
.16		15:18	SB-111 (12/5/12) (11-12)														
.17		15:31	SB-111 (12/5/12) (13-14)														
.18		15:46	SB-111 (12/5/12) (24.5-25.5)														
.19	12/6/12	11:41	SB-112 (12/6/12) (3.5-4.5)														
.20		11:59	SB-112 (12/6/12) (8.5-9.5)														
.21		12:16	SB-112 (12/6/12) (24-25)														

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Josh Adams / Applied EcoSystems, Inc. (☒ Sampler) DATE: 12/7/12 TIME: 2:35pm
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: Andrew Ball DATE: 07DEC12 TIME: 1500

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 5.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 3 OF 3

82697

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc.
ADDRESS: G-4300 S. Saginaw St
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 128083
E-MAIL ADDRESS: ac_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY:
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 11-4317-102/RACER - Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams/[signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	PVAs	10 Metals	Hex Chromium	Special Instructions
548640.22	12/6/12	15:11	SB-113 (12/6/12) (4-6)	S	2	1					1		X	X	X	X	Task #2
.23		15:22	SB-113 (12/6/12) (10-11)														
.24		15:47	SB-113 (12/6/12) (23-24)														
.25	12/4/12	—	DUP-1 (12/4/12)														
.26	12/4/12	—	DUP-2 (12/4/12)														
.27	12/5/12	—	DUP-3 (12/5/12)														
.28	12/4/12	—	Trip Blank (12/4/12)														
.29	12/4/12	—	Field Blank (12/4/12)														
.30	12/5/12	—	Trip Blank (12/5/12)														
.31	12/5/12	—	Field Blank (12/5/12)														
.32	12/6/12	—	Trip Blank (12/6/12)														
.33	12/6/12	—	Field Blank (12/6/12)														

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] Sampler / Applied EcoSystems, Inc. DATE: 12/7/12 TIME: 2:35pm
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 07DEC12 TIME: 1500
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL 5.4

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S54910.01(01)
Generated on 12/27/2012

Report to

Attention: Mike Smith
Applied Ecosystems
G4300 S. Saginaw St.
Burton, MI 48529

Phone: 810-715-2525 FAX: 810-715-2526
Email: msmith@appliedecosystems.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54910.01-S54910.22
Project: 11-4317-102- RACER Former Building 9
Collected Date: 12/10/2012 - 12/11/2012
Submitted Date/Time: 12/12/2012 08:42
Sampled by: Josh Adams
P.O. #: PO128083

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (22 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54910.01	SB-114(12/10/12) (4-5)	Soil	12/10/2012 10:21
S54910.02	SB-114(12/10/12) (7-8)	Soil	12/10/2012 10:46
S54910.03	SB-114(12/10/12) (20-21)	Soil	12/10/2012 11:07
S54910.04	SB-115(12/10/12) (6-7)	Soil	12/10/2012 12:37
S54910.05	SB-115(12/10/12) (13-14)	Soil	12/10/2012 12:50
S54910.06	SB-115(12/10/12) (17-18)	Soil	12/10/2012 13:03
S54910.07	SB-116(12/11/12) (4-5)	Soil	12/11/2012 09:57
S54910.08	SB-116(12/11/12) (7-8)	Soil	12/11/2012 10:13
S54910.09	SB-116(12/11/12) (12-13)	Soil	12/11/2012 10:22
S54910.10	SB-117(12/11/12) (6-7)	Soil	12/11/2012 10:51
S54910.11	SB-117(12/11/12) (9-10)	Soil	12/11/2012 11:14
S54910.12	SB-117(12/11/12) (18-19)	Soil	12/11/2012 11:27
S54910.13	SB-118(12/11/12) (3.5-4.5)	Soil	12/11/2012 15:41
S54910.14	SB-118(12/11/12) (7-8)	Soil	12/11/2012 15:49
S54910.15	SB-118(12/11/12) (16-17)	Soil	12/11/2012 16:10
S54910.16	Dup-4 (12/10/12)	Soil	12/10/2012 00:01
S54910.17	Dup-5 (12/11/12)	Soil	12/11/2012 00:01
S54910.18	Dup-6 (12/11/12)	Soil	12/11/2012 00:01
S54910.19	Trip Blank (12/10/12)	Methanol	12/10/2012 00:01
S54910.20	Field Blank (12/10/12)	Methanol	12/10/2012 00:01
S54910.21	Trip Blank (12/11/12)	Methanol	12/11/2012 00:01
S54910.22	Field Blank (12/11/12)	Methanol	12/11/2012 00:01

Analytical Laboratory Report

Lab Sample ID: S54910.01
Sample Tag: SB-114(12/10/12) (4-5)
Collected Date/Time: 12/10/2012 10:21
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 12:42	CCM		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 10:35	JKB	0.6	
Total Solids	83	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	0.91	mg/kg	0.20	SW6020	12/13/12 13:33	PER	0.034	
Barium	44.3	mg/kg	1.0	SW6020	12/13/12 13:33	PER	0.19	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 13:33	PER	0.027	
Chromium	3.30	mg/kg	0.50	SW6020	12/13/12 13:33	PER	0.043	
Copper	15.1	mg/kg	0.50	SW6020	12/13/12 13:33	PER	0.100	
Lead	11.6	mg/kg	0.30	SW6020	12/13/12 13:33	PER	0.023	
Mercury	0.3358	mg/kg	0.050	SW7471A	12/18/12 13:03	JRT	0.00072	
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 13:33	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 13:33	PER	0.014	
Zinc	10.7	mg/kg	1.0	SW6020	12/13/12 13:33	PER	0.050	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	900	ug/kg	800	SW8270C	12/17/12 20:51	PL	95	X
Acenaphthylene	Not detected	ug/kg	800	SW8270C	12/17/12 20:51	PL	110	X
Anthracene	500	ug/kg	800	SW8270C	12/17/12 20:51	PL	110	JX
Benzo(a)anthracene	760	ug/kg	800	SW8270C	12/17/12 20:51	PL	130	JX
Benzo(a)pyrene	1,300	ug/kg	800	SW8270C	12/17/12 20:51	PL	110	X
Benzo(b)fluoranthene	1,800	ug/kg	800	SW8270C	12/17/12 20:51	PL	240	Xp
Benzo(k)fluoranthene	2,000	ug/kg	800	SW8270C	12/17/12 20:51	PL	190	Xp
Benzo(ghi)perylene	580	ug/kg	800	SW8270C	12/17/12 20:51	PL	120	JX
Chrysene	1,100	ug/kg	800	SW8270C	12/17/12 20:51	PL	150	X
Dibenzo(ah)anthracene	Not detected	ug/kg	800	SW8270C	12/17/12 20:51	PL	90	X
Fluoranthene	2,400	ug/kg	800	SW8270C	12/17/12 20:51	PL	130	X
Fluorene	771	ug/kg	800	SW8270C	12/17/12 20:51	PL	95	JX
Indeno(1,2,3-cd)pyrene	578	ug/kg	800	SW8270C	12/17/12 20:51	PL	96	JX
Naphthalene	500	ug/kg	800	SW8270C	12/17/12 20:51	PL	110	JX
Phenanthrene	2,700	ug/kg	800	SW8270C	12/17/12 20:51	PL	96	X
Pyrene	3,200	ug/kg	800	SW8270C	12/17/12 20:51	PL	120	X
2-Methylnaphthalene	240	ug/kg	800	SW8270C	12/17/12 20:51	PL	130	JX

X-Elevated reporting limit due to matrix interference
J-Estimated value less than reporting limit, but greater than MDL
p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

Analytical Laboratory Report

Lab Sample ID: S54910.01 (continued)
Sample Tag: SB-114(12/10/12) (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatics (continued)								
1-Methylnaphthalene	177	ug/kg	800	SW8270C	12/17/12 20:51	PL	92	JX
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:18	JGH	17	
Acetone	103	ug/kg	1,000	SW8260B/5035	12/16/12 12:18	JGH	70	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:18	JGH	8.2	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:18	JGH	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	19	
2-Butanone (MEK)	79	ug/kg	1,100	SW8260B/5035	12/16/12 12:18	JGH	19	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:18	JGH	28	
Chloromethane	144	ug/kg	400	SW8260B/5035	12/16/12 12:18	JGH	42	JB
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	18	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:18	JGH	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:18	JGH	8.9	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	12	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	13	
Methylene chloride	13	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	12	J
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	13	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	10	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	15	
Tetrahydrofuran	350	ug/kg	1,000	SW8260B/5035	12/16/12 12:18	JGH	250	JB
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	13	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	16	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	7.4	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 12:18	JGH	29	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 12:18	JGH	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	8.9	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	12	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:18	JGH	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	6.7	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	8.2	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	24	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	22	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	9.7	
1,2-Dibromoethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	15	
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	8.2	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	17	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	33	

J-Estimated value less than reporting limit, but greater than MDL X-Elevated reporting limit due to matrix interference
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.01 (continued)
Sample Tag: SB-114(12/10/12) (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	16	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:18	JGH	16	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	9.7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	22	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	20	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	17	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	19	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	19	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	20	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	15	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	19	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:18	JGH	3.0	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:18	JGH	18	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:18	JGH	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:18	JGH	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	490	SW8260B/5035	12/16/12 12:18	JGH	17	
1,2,3-Trichlorobenzene	Not detected	ug/kg	490	SW8260B/5035	12/16/12 12:18	JGH	21	
Naphthalene	540	ug/kg	490	SW8260B/5035	12/16/12 12:18	JGH	19	
2-Methylnaphthalene	234	ug/kg	490	SW8260B/5035	12/16/12 12:18	JGH	21	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.02
Sample Tag: SB-114(12/10/12) (7-8)
Collected Date/Time: 12/10/2012 10:46
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 10:45	JKB	0.6	
Total Solids	85	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	1.28	mg/kg	0.20	SW6020	12/13/12 13:49	PER	0.032	
Barium	8.50	mg/kg	1.0	SW6020	12/13/12 13:49	PER	0.18	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 13:49	PER	0.026	
Chromium	2.02	mg/kg	0.50	SW6020	12/13/12 13:49	PER	0.041	
Copper	4.02	mg/kg	0.50	SW6020	12/13/12 13:49	PER	0.094	
Lead	2.20	mg/kg	0.30	SW6020	12/13/12 13:49	PER	0.021	
Mercury	0.3343	mg/kg	0.050	SW7471A	12/18/12 13:06	JRT	0.00070	
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 13:49	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 13:49	PER	0.013	
Zinc	9.99	mg/kg	1.0	SW6020	12/13/12 13:49	PER	0.047	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	36	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	28	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	21	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	16	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	14	
Pyrene	94	ug/kg	300	SW8270C	12/18/12 15:59	PL	17	J
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	19	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 15:59	PL	13	

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.02 (continued)
Sample Tag: SB-114(12/10/12) (7-8)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/15/12 23:52	JGH	17	
Acetone	135	ug/kg	1,000	SW8260B/5035	12/15/12 23:52	JGH	69	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/15/12 23:52	JGH	8.1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/15/12 23:52	JGH	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	18	
2-Butanone (MEK)	123	ug/kg	1,100	SW8260B/5035	12/15/12 23:52	JGH	18	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/15/12 23:52	JGH	28	
Chloromethane	155	ug/kg	400	SW8260B/5035	12/15/12 23:52	JGH	42	JB
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	18	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/15/12 23:52	JGH	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/15/12 23:52	JGH	8.8	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	12	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	13	
Methylene chloride	15	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	12	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	10	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	15	
Tetrahydrofuran	400	ug/kg	1,000	SW8260B/5035	12/15/12 23:52	JGH	240	JB
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	7.3	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/15/12 23:52	JGH	29	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/15/12 23:52	JGH	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	8.8	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	12	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/15/12 23:52	JGH	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	6.6	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	8.1	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	21	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	9.5	
1,2-Dibromoethane	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	15	
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	8.1	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	17	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	32	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/15/12 23:52	JGH	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	9.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	21	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.02 (continued)
Sample Tag: SB-114(12/10/12) (7-8)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	20	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	17	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	19	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	15	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	20	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	15	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	19	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/15/12 23:52	JGH	2.9	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/15/12 23:52	JGH	18	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/15/12 23:52	JGH	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/15/12 23:52	JGH	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	480	SW8260B/5035	12/15/12 23:52	JGH	17	
1,2,3-Trichlorobenzene	Not detected	ug/kg	480	SW8260B/5035	12/15/12 23:52	JGH	20	
Naphthalene	60	ug/kg	480	SW8260B/5035	12/15/12 23:52	JGH	18	JB
2-Methylnaphthalene	62	ug/kg	480	SW8260B/5035	12/15/12 23:52	JGH	20	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.03
Sample Tag: SB-114(12/10/12) (20-21)
Collected Date/Time: 12/10/2012 11:07
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:05	JKB	0.6	
Total Solids	82	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	4.50	mg/kg	0.20	SW6020	12/13/12 13:58	PER	0.033	
Barium	31.3	mg/kg	1.0	SW6020	12/13/12 13:58	PER	0.18	
Cadmium	0.15	mg/kg	0.20	SW6020	12/13/12 13:58	PER	0.026	b
Chromium	2.66	mg/kg	0.50	SW6020	12/13/12 13:58	PER	0.041	
Copper	6.73	mg/kg	0.50	SW6020	12/13/12 13:58	PER	0.096	
Lead	5.07	mg/kg	0.30	SW6020	12/13/12 13:58	PER	0.022	
Mercury	0.03	mg/kg	0.050	SW7471A	12/18/12 13:10	JRT	0.00072	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 13:58	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 13:58	PER	0.013	
Zinc	15.7	mg/kg	1.0	SW6020	12/13/12 13:58	PER	0.048	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	37	
Benzo(k)fluoranthene	32	ug/kg	300	SW8270C	12/18/12 16:56	PL	29	Jp
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	14	
Fluoranthene	37	ug/kg	300	SW8270C	12/18/12 16:56	PL	20	J
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	17	
Phenanthrene	24	ug/kg	300	SW8270C	12/18/12 16:56	PL	15	J
Pyrene	41	ug/kg	300	SW8270C	12/18/12 16:56	PL	18	J
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 16:56	PL	14	

b-Value detected less than reporting limit, but greater than MDL
J-Estimated value less than reporting limit, but greater than MDL p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

Analytical Laboratory Report

Lab Sample ID: S54910.03 (continued)
Sample Tag: SB-114(12/10/12) (20-21)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:10	JGH	19	
Acetone	152	ug/kg	2,000	SW8260B/5035	12/16/12 00:10	JGH	77	JB
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	21	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:10	JGH	9.1	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:10	JGH	16	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	21	
2-Butanone (MEK)	126	ug/kg	1,200	SW8260B/5035	12/16/12 00:10	JGH	21	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:10	JGH	31	
Chloromethane	179	ug/kg	400	SW8260B/5035	12/16/12 00:10	JGH	47	JB
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	20	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:10	JGH	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:10	JGH	9.9	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	15	
Methylene chloride	16	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	13	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	12	
cis-1,2-Dichloroethene	170	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	16	
Tetrahydrofuran	470	ug/kg	2,000	SW8260B/5035	12/16/12 00:10	JGH	270	JB
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	8.2	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 00:10	JGH	32	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 00:10	JGH	18	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	9.9	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	16	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	15	
Trichloroethene	1,220	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	16	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:10	JGH	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	7.4	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	9.1	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	26	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	24	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	11	
1,2-Dibromoethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	16	
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	9.1	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	19	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	36	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:10	JGH	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	24	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.03 (continued)
Sample Tag: SB-114(12/10/12) (20-21)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	22	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	19	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	21	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	18	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	21	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	22	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	16	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:10	JGH	3.3	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:10	JGH	20	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/16/12 00:10	JGH	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:10	JGH	16	
1,2,4-Trichlorobenzene	Not detected	ug/kg	540	SW8260B/5035	12/16/12 00:10	JGH	19	
1,2,3-Trichlorobenzene	Not detected	ug/kg	540	SW8260B/5035	12/16/12 00:10	JGH	23	
Naphthalene	22	ug/kg	540	SW8260B/5035	12/16/12 00:10	JGH	21	JB
2-Methylnaphthalene	30	ug/kg	540	SW8260B/5035	12/16/12 00:10	JGH	23	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.04
Sample Tag: SB-115(12/10/12) (6-7)
Collected Date/Time: 12/10/2012 12:37
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:10	JKB	0.6	
Total Solids	80	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	1.83	mg/kg	0.20	SW6020	12/13/12 14:00	PER	0.035	
Barium	45.2	mg/kg	1.0	SW6020	12/13/12 14:00	PER	0.19	
Cadmium	0.12	mg/kg	0.20	SW6020	12/13/12 14:00	PER	0.028	b
Chromium	2.84	mg/kg	0.50	SW6020	12/13/12 14:00	PER	0.044	
Copper	5.60	mg/kg	0.50	SW6020	12/13/12 14:00	PER	0.10	
Lead	6.63	mg/kg	0.30	SW6020	12/13/12 14:00	PER	0.023	
Mercury	0.1203	mg/kg	0.050	SW7471A	12/18/12 13:12	JRT	0.00074	
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:00	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:00	PER	0.014	
Zinc	16.3	mg/kg	1.0	SW6020	12/13/12 14:00	PER	0.051	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:15	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.04 (continued)
Sample Tag: SB-115(12/10/12) (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:28	JGH	18	
Acetone	139	ug/kg	2,000	SW8260B/5035	12/16/12 00:28	JGH	74	JB
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:28	JGH	8.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:28	JGH	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	20	
2-Butanone (MEK)	122	ug/kg	1,200	SW8260B/5035	12/16/12 00:28	JGH	20	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:28	JGH	30	
Chloromethane	174	ug/kg	400	SW8260B/5035	12/16/12 00:28	JGH	45	JB
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:28	JGH	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:28	JGH	9.4	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	14	
Methylene chloride	18	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	13	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	16	
Tetrahydrofuran	440	ug/kg	2,000	SW8260B/5035	12/16/12 00:28	JGH	260	JB
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	7.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 00:28	JGH	31	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 00:28	JGH	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	9.4	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:28	JGH	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	7.1	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	8.6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	10	
1,2-Dibromoethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	16	
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	8.6	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	35	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:28	JGH	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	23	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.04 (continued)
Sample Tag: SB-115(12/10/12) (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:28	JGH	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 00:28	JGH	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/16/12 00:28	JGH	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:28	JGH	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	12/16/12 00:28	JGH	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	12/16/12 00:28	JGH	22	
Naphthalene	Not detected	ug/kg	520	SW8260B/5035	12/16/12 00:28	JGH	20	
2-Methylnaphthalene	24	ug/kg	520	SW8260B/5035	12/16/12 00:28	JGH	22	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.05
Sample Tag: SB-115(12/10/12) (13-14)
Collected Date/Time: 12/10/2012 12:50
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:15	JKB	0.6	
Total Solids	93	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	2.17	mg/kg	0.20	SW6020	12/13/12 14:01	PER	0.028	
Barium	8.28	mg/kg	1.0	SW6020	12/13/12 14:01	PER	0.16	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 14:01	PER	0.023	
Chromium	1.56	mg/kg	0.50	SW6020	12/13/12 14:01	PER	0.036	
Copper	4.01	mg/kg	0.50	SW6020	12/13/12 14:01	PER	0.083	
Lead	3.68	mg/kg	0.30	SW6020	12/13/12 14:01	PER	0.019	
Mercury	0.004	mg/kg	0.050	SW7471A	12/18/12 13:14	JRT	0.00064	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:01	PER	0.088	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:01	PER	0.011	
Zinc	12.2	mg/kg	1.0	SW6020	12/13/12 14:01	PER	0.041	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	13	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	15	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	15	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	17	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	15	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	33	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	25	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	16	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	20	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	12	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	18	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	13	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	13	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	15	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	13	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	16	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	17	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:35	PL	12	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.05 (continued)
Sample Tag: SB-115(12/10/12) (13-14)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:46	JGH	14	
Acetone	91	ug/kg	1,000	SW8260B/5035	12/16/12 00:46	JGH	57	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	15	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:46	JGH	6.7	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:46	JGH	12	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	15	
2-Butanone (MEK)	89	ug/kg	910	SW8260B/5035	12/16/12 00:46	JGH	15	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:46	JGH	23	
Chloromethane	133	ug/kg	300	SW8260B/5035	12/16/12 00:46	JGH	35	JB
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	15	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 00:46	JGH	9.7	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:46	JGH	7.3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	9.7	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	11	
Methylene chloride	13.3	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	9.7	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	10	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	8.5	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	12	
Tetrahydrofuran	350	ug/kg	1,000	SW8260B/5035	12/16/12 00:46	JGH	200	JB
Chloroform	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	10	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	13	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	6.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 00:46	JGH	24	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 00:46	JGH	13	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	7.3	
Benzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	12	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	11	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	9.7	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	12	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	9.1	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:46	JGH	13	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	5.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	9.7	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	6.7	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	19	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	10	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	18	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	7.9	
1,2-Dibromoethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	12	
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	11	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	6.7	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	14	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	27	
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	13	
Styrene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	10	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:46	JGH	13	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	7.9	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	18	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.05 (continued)
Sample Tag: SB-115(12/10/12) (13-14)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	16	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	14	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	15	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	16	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	13	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	13	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	15	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	16	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	12	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	12	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	16	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 00:46	JGH	2.4	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 00:46	JGH	15	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:46	JGH	9.1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 00:46	JGH	12	
1,2,4-Trichlorobenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:46	JGH	14	
1,2,3-Trichlorobenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:46	JGH	17	
Naphthalene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 00:46	JGH	15	
2-Methylnaphthalene	18	ug/kg	400	SW8260B/5035	12/16/12 00:46	JGH	17	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.06
Sample Tag: SB-115(12/10/12) (17-18)
Collected Date/Time: 12/10/2012 13:03
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:20	JKB	0.6	
Total Solids	94	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	2.34	mg/kg	0.20	SW6020	12/13/12 14:03	PER	0.030	
Barium	8.82	mg/kg	1.0	SW6020	12/13/12 14:03	PER	0.16	
Cadmium	0.24	mg/kg	0.20	SW6020	12/13/12 14:03	PER	0.024	
Chromium	1.79	mg/kg	0.50	SW6020	12/13/12 14:03	PER	0.038	
Copper	3.67	mg/kg	0.50	SW6020	12/13/12 14:03	PER	0.087	
Lead	3.63	mg/kg	0.30	SW6020	12/13/12 14:03	PER	0.020	
Mercury	0.004	mg/kg	0.050	SW7471A	12/18/12 13:16	JRT	0.00063	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:03	PER	0.093	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:03	PER	0.012	
Zinc	46.5	mg/kg	1.0	SW6020	12/13/12 14:03	PER	0.044	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	13	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	14	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	14	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	17	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	14	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	32	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	25	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	16	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	19	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	12	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	18	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	13	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	13	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	15	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	13	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	16	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	17	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 17:54	PL	12	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.06 (continued)
Sample Tag: SB-115(12/10/12) (17-18)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:04	JGH	13	
Acetone	121	ug/kg	1,000	SW8260B/5035	12/16/12 01:04	JGH	55	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	15	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:04	JGH	6.4	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:04	JGH	11	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	15	
2-Butanone (MEK)	98	ug/kg	880	SW8260B/5035	12/16/12 01:04	JGH	15	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:04	JGH	22	
Chloromethane	128	ug/kg	300	SW8260B/5035	12/16/12 01:04	JGH	33	JB
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	14	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:04	JGH	9.4	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:04	JGH	7.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	9.4	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	11	
Methylene chloride	12.9	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	9.4	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	9.9	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	8.2	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	12	
Tetrahydrofuran	330	ug/kg	1,000	SW8260B/5035	12/16/12 01:04	JGH	190	JB
Chloroform	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	9.9	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	12	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	5.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 01:04	JGH	23	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 01:04	JGH	13	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	7.0	
Benzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	11	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	11	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	9.4	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	11	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	8.8	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:04	JGH	12	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	5.3	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	9.4	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	6.4	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	19	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	9.9	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	17	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	7.6	
1,2-Dibromoethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	12	
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	11	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	6.4	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	13	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	26	
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	12	
Styrene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	9.9	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:04	JGH	12	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	7.6	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	17	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S54910.06 (continued)
Sample Tag: SB-115(12/10/12) (17-18)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	16	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	13	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	15	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	15	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	12	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	13	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	15	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	16	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	12	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	11	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	15	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:04	JGH	2.3	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:04	JGH	14	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:04	JGH	8.8	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:04	JGH	11	
1,2,4-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	12/16/12 01:04	JGH	13	
1,2,3-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	12/16/12 01:04	JGH	16	
Naphthalene	Not detected	ug/kg	390	SW8260B/5035	12/16/12 01:04	JGH	15	
2-Methylnaphthalene	Not detected	ug/kg	390	SW8260B/5035	12/16/12 01:04	JGH	16	

Analytical Laboratory Report

Lab Sample ID: S54910.07
Sample Tag: SB-116(12/11/12) (4-5)
Collected Date/Time: 12/11/2012 09:57
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:25	JKB	0.6	
Total Solids	78	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	1.16	mg/kg	0.20	SW6020	12/13/12 14:05	PER	0.037	
Barium	68.2	mg/kg	1.0	SW6020	12/13/12 14:05	PER	0.20	
Cadmium	0.32	mg/kg	0.20	SW6020	12/13/12 14:05	PER	0.030	
Chromium	4.42	mg/kg	0.50	SW6020	12/13/12 14:05	PER	0.047	
Copper	11.0	mg/kg	0.50	SW6020	12/13/12 14:05	PER	0.11	
Lead	15.2	mg/kg	0.30	SW6020	12/13/12 14:05	PER	0.025	
Mercury	0.04	mg/kg	0.050	SW7471A	12/18/12 13:18	JRT	0.00077	b
Selenium	0.25	mg/kg	0.40	SW6020	12/13/12 14:05	PER	0.12	b
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:05	PER	0.015	
Zinc	12.2	mg/kg	1.0	SW6020	12/13/12 14:05	PER	0.054	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	39	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:13	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.07 (continued)
Sample Tag: SB-116(12/11/12) (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:22	JGH	19	
Acetone	191	ug/kg	2,000	SW8260B/5035	12/16/12 01:22	JGH	76	JB
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:22	JGH	8.9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:22	JGH	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	20	
2-Butanone (MEK)	135	ug/kg	1,200	SW8260B/5035	12/16/12 01:22	JGH	20	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:22	JGH	31	
Chloromethane	176	ug/kg	400	SW8260B/5035	12/16/12 01:22	JGH	46	JB
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:22	JGH	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:22	JGH	9.7	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	15	
Methylene chloride	16	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	13	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	16	
Tetrahydrofuran	460	ug/kg	2,000	SW8260B/5035	12/16/12 01:22	JGH	270	JB
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	8.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 01:22	JGH	31	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 01:22	JGH	18	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	9.7	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	15	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:22	JGH	17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	7.3	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	8.9	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	26	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	10	
1,2-Dibromoethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	16	
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	8.9	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	19	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	35	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:22	JGH	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	23	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.07 (continued)
Sample Tag: SB-116(12/11/12) (4-5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	22	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	19	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	18	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	22	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:22	JGH	3.2	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:22	JGH	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/16/12 01:22	JGH	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:22	JGH	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	530	SW8260B/5035	12/16/12 01:22	JGH	19	
1,2,3-Trichlorobenzene	Not detected	ug/kg	530	SW8260B/5035	12/16/12 01:22	JGH	23	
Naphthalene	Not detected	ug/kg	530	SW8260B/5035	12/16/12 01:22	JGH	20	
2-Methylnaphthalene	Not detected	ug/kg	530	SW8260B/5035	12/16/12 01:22	JGH	23	

Analytical Laboratory Report

Lab Sample ID: S54910.08
Sample Tag: SB-116(12/11/12) (7-8)
Collected Date/Time: 12/11/2012 10:13
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:30	JKB	0.6	
Total Solids	90	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	0.15	mg/kg	0.20	SW6020	12/13/12 14:07	PER	0.030	b
Barium	13.5	mg/kg	1.0	SW6020	12/13/12 14:07	PER	0.17	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 14:07	PER	0.024	
Chromium	1.53	mg/kg	0.50	SW6020	12/13/12 14:07	PER	0.038	
Copper	0.60	mg/kg	0.50	SW6020	12/13/12 14:07	PER	0.088	
Lead	2.39	mg/kg	0.30	SW6020	12/13/12 14:07	PER	0.020	
Mercury	0.01	mg/kg	0.050	SW7471A	12/18/12 13:20	JRT	0.00066	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:07	PER	0.094	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:07	PER	0.012	
Zinc	1.71	mg/kg	1.0	SW6020	12/13/12 14:07	PER	0.044	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	13	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	15	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	15	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	18	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	15	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	34	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	26	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	17	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	20	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	12	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	18	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	13	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	13	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	16	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	13	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	16	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	18	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:32	PL	13	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.08 (continued)
Sample Tag: SB-116(12/11/12) (7-8)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:40	JGH	14	
Acetone	119	ug/kg	1,000	SW8260B/5035	12/16/12 01:40	JGH	56	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	15	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:40	JGH	6.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:40	JGH	11	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	15	
2-Butanone (MEK)	86	ug/kg	900	SW8260B/5035	12/16/12 01:40	JGH	15	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:40	JGH	23	
Chloromethane	127	ug/kg	300	SW8260B/5035	12/16/12 01:40	JGH	34	JB
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	14	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:40	JGH	9.6	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:40	JGH	7.2	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	9.6	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	11	
Methylene chloride	10.8	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	9.6	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	10	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	8.4	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	12	
Tetrahydrofuran	310	ug/kg	1,000	SW8260B/5035	12/16/12 01:40	JGH	200	JB
Chloroform	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	10	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	13	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	6.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 01:40	JGH	23	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 01:40	JGH	13	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	7.2	
Benzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	11	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	11	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	9.6	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	11	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	9.0	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:40	JGH	13	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	5.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	9.6	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	6.6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	19	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	10	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	17	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	7.8	
1,2-Dibromoethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	12	
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	11	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	6.6	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	14	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	26	
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	13	
Styrene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	10	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:40	JGH	13	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	7.8	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	17	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.08 (continued)
Sample Tag: SB-116(12/11/12) (7-8)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	16	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	14	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	15	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	16	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	13	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	13	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	15	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	16	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	12	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	11	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	16	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 01:40	JGH	2.4	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 01:40	JGH	14	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:40	JGH	9.0	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:40	JGH	11	
1,2,4-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	12/16/12 01:40	JGH	14	
1,2,3-Trichlorobenzene	Not detected	ug/kg	390	SW8260B/5035	12/16/12 01:40	JGH	17	
Naphthalene	Not detected	ug/kg	390	SW8260B/5035	12/16/12 01:40	JGH	15	
2-Methylnaphthalene	Not detected	ug/kg	390	SW8260B/5035	12/16/12 01:40	JGH	17	

Analytical Laboratory Report

Lab Sample ID: S54910.09
Sample Tag: SB-116(12/11/12) (12-13)
Collected Date/Time: 12/11/2012 10:22
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:35	JKB	0.6	
Total Solids	79	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	1.59	mg/kg	0.20	SW6020	12/13/12 14:09	PER	0.035	
Barium	40.5	mg/kg	1.0	SW6020	12/13/12 14:09	PER	0.19	
Cadmium	0.16	mg/kg	0.20	SW6020	12/13/12 14:09	PER	0.028	b
Chromium	3.49	mg/kg	0.50	SW6020	12/13/12 14:09	PER	0.044	
Copper	13.0	mg/kg	0.50	SW6020	12/13/12 14:09	PER	0.10	
Lead	7.55	mg/kg	0.30	SW6020	12/13/12 14:09	PER	0.023	
Mercury	0.02	mg/kg	0.050	SW7471A	12/18/12 13:22	JRT	0.00073	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:09	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:09	PER	0.014	
Zinc	22.8	mg/kg	1.0	SW6020	12/13/12 14:09	PER	0.051	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	38	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 18:51	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.09 (continued)
Sample Tag: SB-116(12/11/12) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:59	JGH	17	
Acetone	161	ug/kg	2,000	SW8260B/5035	12/16/12 01:59	JGH	71	JB
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:59	JGH	8.3	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:59	JGH	14	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	19	
2-Butanone (MEK)	134	ug/kg	1,100	SW8260B/5035	12/16/12 01:59	JGH	19	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:59	JGH	29	
Chloromethane	167	ug/kg	400	SW8260B/5035	12/16/12 01:59	JGH	43	JB
Vinyl chloride	260	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	18	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 01:59	JGH	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:59	JGH	9.1	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	12	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	14	
Methylene chloride	16	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	12	JB
trans-1,2-Dichloroethene	27	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	13	J
1,1-Dichloroethane	35	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	11	J
cis-1,2-Dichloroethene	2,610	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	15	
Tetrahydrofuran	430	ug/kg	2,000	SW8260B/5035	12/16/12 01:59	JGH	250	JB
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	7.6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 01:59	JGH	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 01:59	JGH	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	9.1	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	14	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	14	
Trichloroethene	27	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	12	J
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	14	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:59	JGH	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	6.8	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	8.3	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	24	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	22	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	9.9	
1,2-Dibromoethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	15	
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	8.3	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	17	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	33	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:59	JGH	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	9.9	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	22	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.09 (continued)
Sample Tag: SB-116(12/11/12) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	20	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	17	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	19	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	20	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	15	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	14	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 01:59	JGH	3.0	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 01:59	JGH	18	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/16/12 01:59	JGH	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 01:59	JGH	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	500	SW8260B/5035	12/16/12 01:59	JGH	17	
1,2,3-Trichlorobenzene	Not detected	ug/kg	500	SW8260B/5035	12/16/12 01:59	JGH	21	
Naphthalene	Not detected	ug/kg	500	SW8260B/5035	12/16/12 01:59	JGH	19	
2-Methylnaphthalene	Not detected	ug/kg	500	SW8260B/5035	12/16/12 01:59	JGH	21	

Analytical Laboratory Report

Lab Sample ID: S54910.10
Sample Tag: SB-117(12/11/12) (6-7)
Collected Date/Time: 12/11/2012 10:51
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:40	JKB	0.6	
Total Solids	84	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	2.90	mg/kg	0.20	SW6020	12/13/12 14:11	PER	0.032	
Barium	112	mg/kg	1.0	SW6020	12/13/12 14:11	PER	0.18	
Cadmium	0.22	mg/kg	0.20	SW6020	12/13/12 14:11	PER	0.026	
Chromium	3.45	mg/kg	0.50	SW6020	12/13/12 14:11	PER	0.041	
Copper	10.6	mg/kg	0.50	SW6020	12/13/12 14:11	PER	0.095	
Lead	8.88	mg/kg	0.30	SW6020	12/13/12 14:11	PER	0.022	
Mercury	0.04	mg/kg	0.050	SW7471A	12/18/12 13:34	JRT	0.00070	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:11	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:11	PER	0.013	
Zinc	19.6	mg/kg	1.0	SW6020	12/13/12 14:11	PER	0.048	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	36	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	28	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	19	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:10	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.10 (continued)
Sample Tag: SB-117(12/11/12) (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	16	
Acetone	138	ug/kg	1,000	SW8260B/5035	12/16/12 02:17	JGH	64	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	7.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	17	
2-Butanone (MEK)	113	ug/kg	1,000	SW8260B/5035	12/16/12 02:17	JGH	17	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	26	
Chloromethane	145	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	39	JB
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	8.2	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	12	
Methylene chloride	14	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	11	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	9.5	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	14	
Tetrahydrofuran	390	ug/kg	1,000	SW8260B/5035	12/16/12 02:17	JGH	230	JB
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	6.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 02:17	JGH	27	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 02:17	JGH	15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	8.2	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	6.1	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	7.5	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	20	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	8.9	
1,2-Dibromoethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	14	
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	7.5	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	8.9	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	20	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S54910.10 (continued)
Sample Tag: SB-117(12/11/12) (6-7)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	18	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:17	JGH	2.7	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:17	JGH	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 02:17	JGH	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:17	JGH	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	12/16/12 02:17	JGH	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	12/16/12 02:17	JGH	19	
Naphthalene	Not detected	ug/kg	450	SW8260B/5035	12/16/12 02:17	JGH	17	
2-Methylnaphthalene	Not detected	ug/kg	450	SW8260B/5035	12/16/12 02:17	JGH	19	

Analytical Laboratory Report

Lab Sample ID: S54910.11
Sample Tag: SB-117(12/11/12) (9-10)
Collected Date/Time: 12/11/2012 11:14
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:45	JKB	0.6	
Total Solids	82	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	0.13	mg/kg	0.20	SW6020	12/13/12 14:19	PER	0.034	b
Barium	15.7	mg/kg	1.0	SW6020	12/13/12 14:19	PER	0.19	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 14:19	PER	0.027	
Chromium	2.37	mg/kg	0.50	SW6020	12/13/12 14:19	PER	0.044	
Copper	1.45	mg/kg	0.50	SW6020	12/13/12 14:19	PER	0.10	
Lead	2.33	mg/kg	0.30	SW6020	12/13/12 14:19	PER	0.023	
Mercury	0.02	mg/kg	0.050	SW7471A	12/18/12 13:36	JRT	0.00072	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:19	PER	0.11	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:19	PER	0.014	
Zinc	4.31	mg/kg	1.0	SW6020	12/13/12 14:19	PER	0.050	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	37	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	29	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	22	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	17	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	18	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	20	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:30	PL	14	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.11 (continued)
Sample Tag: SB-117(12/11/12) (9-10)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:35	JGH	17	
Acetone	220	ug/kg	1,000	SW8260B/5035	12/16/12 02:35	JGH	70	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/16/12 02:35	JGH	8.2	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:35	JGH	14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	19	
2-Butanone (MEK)	113	ug/kg	1,100	SW8260B/5035	12/16/12 02:35	JGH	19	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 02:35	JGH	28	
Chloromethane	168	ug/kg	400	SW8260B/5035	12/16/12 02:35	JGH	42	JB
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	18	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 02:35	JGH	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 02:35	JGH	8.9	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	12	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	13	
Methylene chloride	14	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	12	JB
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	13	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	10	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	15	
Tetrahydrofuran	430	ug/kg	1,000	SW8260B/5035	12/16/12 02:35	JGH	250	JB
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	13	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	16	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	7.4	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 02:35	JGH	29	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 02:35	JGH	16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	8.9	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	12	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 02:35	JGH	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	6.7	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	8.2	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	24	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	22	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	9.7	
1,2-Dibromoethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	15	
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	8.2	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	17	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	33	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	16	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 02:35	JGH	16	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	9.7	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	22	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.11 (continued)
Sample Tag: SB-117(12/11/12) (9-10)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	20	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	17	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	19	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	16	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	19	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	20	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	15	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	19	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 02:35	JGH	3.0	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 02:35	JGH	18	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 02:35	JGH	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 02:35	JGH	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	490	SW8260B/5035	12/16/12 02:35	JGH	17	
1,2,3-Trichlorobenzene	Not detected	ug/kg	490	SW8260B/5035	12/16/12 02:35	JGH	21	
Naphthalene	Not detected	ug/kg	490	SW8260B/5035	12/16/12 02:35	JGH	19	
2-Methylnaphthalene	Not detected	ug/kg	490	SW8260B/5035	12/16/12 02:35	JGH	21	

Analytical Laboratory Report

Lab Sample ID: S54910.12
Sample Tag: SB-117(12/11/12) (18-19)
Collected Date/Time: 12/11/2012 11:27
Matrix: Soil
COC Reference: 82689

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:50	JKB	0.6	
Total Solids	76	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	1.75	mg/kg	0.20	SW6020	12/13/12 14:21	PER	0.036	
Barium	37.4	mg/kg	1.0	SW6020	12/13/12 14:21	PER	0.20	
Cadmium	0.25	mg/kg	0.20	SW6020	12/13/12 14:21	PER	0.029	
Chromium	4.73	mg/kg	0.50	SW6020	12/13/12 14:21	PER	0.046	
Copper	14.2	mg/kg	0.50	SW6020	12/13/12 14:21	PER	0.11	
Lead	9.09	mg/kg	0.30	SW6020	12/13/12 14:21	PER	0.024	
Mercury	0.02	mg/kg	0.050	SW7471A	12/18/12 13:38	JRT	0.00078	b
Selenium	0.31	mg/kg	0.40	SW6020	12/13/12 14:21	PER	0.11	b
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:21	PER	0.014	
Zinc	26.7	mg/kg	1.0	SW6020	12/13/12 14:21	PER	0.053	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	16	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	18	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	18	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	21	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	18	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	40	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	31	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	20	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	24	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	15	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	22	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	16	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	16	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	16	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 19:49	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.12 (continued)
Sample Tag: SB-117(12/11/12) (18-19)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:36	JGH	19	
Acetone	119	ug/kg	2,000	SW8260B/5035	12/16/12 12:36	JGH	79	JB
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	21	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:36	JGH	9.2	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:36	JGH	16	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	21	
2-Butanone (MEK)	81	ug/kg	1,300	SW8260B/5035	12/16/12 12:36	JGH	21	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:36	JGH	32	
Chloromethane	158	ug/kg	400	SW8260B/5035	12/16/12 12:36	JGH	48	JB
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	20	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:36	JGH	13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:36	JGH	10	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	15	
Methylene chloride	15	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	13	J
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	14	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	12	
cis-1,2-Dichloroethene	580	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	17	
Tetrahydrofuran	360	ug/kg	2,000	SW8260B/5035	12/16/12 12:36	JGH	280	JB
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	14	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	18	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	8.4	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 12:36	JGH	33	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 12:36	JGH	18	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	10	
Benzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	16	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	15	
Trichloroethene	5,980	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	16	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	13	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:36	JGH	18	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	7.6	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	9.2	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	27	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	14	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	24	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	11	
1,2-Dibromoethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	17	
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	15	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	9.2	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	19	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	37	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	18	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	14	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:36	JGH	18	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	11	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	24	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.12 (continued)
Sample Tag: SB-117(12/11/12) (18-19)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	23	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	19	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	21	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	22	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	18	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	18	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	21	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	23	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	17	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	16	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	22	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 12:36	JGH	3.4	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 12:36	JGH	20	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/16/12 12:36	JGH	13	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:36	JGH	16	
1,2,4-Trichlorobenzene	Not detected	ug/kg	550	SW8260B/5035	12/16/12 12:36	JGH	19	
1,2,3-Trichlorobenzene	Not detected	ug/kg	550	SW8260B/5035	12/16/12 12:36	JGH	24	
Naphthalene	31	ug/kg	550	SW8260B/5035	12/16/12 12:36	JGH	21	J
2-Methylnaphthalene	33	ug/kg	550	SW8260B/5035	12/16/12 12:36	JGH	24	JB

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.13
Sample Tag: SB-118(12/11/12) (3.5-4.5)
Collected Date/Time: 12/11/2012 15:41
Matrix: Soil
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 11:55	JKB	0.6	
Total Solids	86	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	0.75	mg/kg	0.20	SW6020	12/13/12 14:23	PER	0.032	
Barium	8.65	mg/kg	1.0	SW6020	12/13/12 14:23	PER	0.18	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 14:23	PER	0.026	
Chromium	1.16	mg/kg	0.50	SW6020	12/13/12 14:23	PER	0.041	
Copper	1.47	mg/kg	0.50	SW6020	12/13/12 14:23	PER	0.094	
Lead	1.84	mg/kg	0.30	SW6020	12/13/12 14:23	PER	0.021	
Mercury	0.01	mg/kg	0.050	SW7471A	12/18/12 13:24	JRT	0.00068	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:23	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:23	PER	0.013	
Zinc	3.73	mg/kg	1.0	SW6020	12/13/12 14:23	PER	0.047	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	18	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	35	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	27	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	21	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	19	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	16	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	17	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	19	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:08	PL	13	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.13 (continued)
Sample Tag: SB-118(12/11/12) (3.5-4.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	16	
Acetone	102	ug/kg	1,000	SW8260B/5035	12/16/12 12:54	JGH	64	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	7.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	17	
2-Butanone (MEK)	67	ug/kg	1,000	SW8260B/5035	12/16/12 12:54	JGH	17	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	26	
Chloromethane	127	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	39	JB
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	8.2	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	12	
Methylene chloride	11	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	11	J
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	9.5	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	14	
Tetrahydrofuran	330	ug/kg	1,000	SW8260B/5035	12/16/12 12:54	JGH	220	JB
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	6.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 12:54	JGH	27	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 12:54	JGH	15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	8.2	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	6.1	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	7.5	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	20	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	8.9	
1,2-Dibromoethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	14	
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	7.5	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	8.9	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	20	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.13 (continued)
Sample Tag: SB-118(12/11/12) (3.5-4.5)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	18	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 12:54	JGH	2.7	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 12:54	JGH	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 12:54	JGH	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 12:54	JGH	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	12/16/12 12:54	JGH	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	12/16/12 12:54	JGH	19	
Naphthalene	Not detected	ug/kg	450	SW8260B/5035	12/16/12 12:54	JGH	17	
2-Methylnaphthalene	Not detected	ug/kg	450	SW8260B/5035	12/16/12 12:54	JGH	19	

Analytical Laboratory Report

Lab Sample ID: S54910.14
Sample Tag: SB-118(12/11/12) (7-8)
Collected Date/Time: 12/11/2012 15:49
Matrix: Soil
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 12:00	JKB	0.6	
Total Solids	90	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	0.48	mg/kg	0.20	SW6020	12/13/12 14:25	PER	0.031	
Barium	8.94	mg/kg	1.0	SW6020	12/13/12 14:25	PER	0.17	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 14:25	PER	0.025	
Chromium	1.03	mg/kg	0.50	SW6020	12/13/12 14:25	PER	0.039	
Copper	1.38	mg/kg	0.50	SW6020	12/13/12 14:25	PER	0.091	
Lead	1.75	mg/kg	0.30	SW6020	12/13/12 14:25	PER	0.021	
Mercury	0.01	mg/kg	0.050	SW7471A	12/18/12 13:40	JRT	0.00065	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:25	PER	0.097	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:25	PER	0.012	
Zinc	3.52	mg/kg	1.0	SW6020	12/13/12 14:25	PER	0.046	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	13	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	15	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	15	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	18	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	15	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	34	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	26	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	17	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	20	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	12	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	18	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	13	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	13	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	16	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	13	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	16	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	18	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:27	PL	13	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.14 (continued)
Sample Tag: SB-118(12/11/12) (7-8)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:13	JGH	14	
Acetone	72	ug/kg	1,000	SW8260B/5035	12/16/12 13:13	JGH	57	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	15	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:13	JGH	6.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:13	JGH	11	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	15	
2-Butanone (MEK)	59	ug/kg	910	SW8260B/5035	12/16/12 13:13	JGH	15	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:13	JGH	23	
Chloromethane	111	ug/kg	300	SW8260B/5035	12/16/12 13:13	JGH	34	JB
Vinyl chloride	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	14	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:13	JGH	9.7	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:13	JGH	7.2	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	9.7	
1,1-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	11	
Methylene chloride	11.5	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	9.7	J
trans-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	10	
1,1-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	8.5	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	12	
Tetrahydrofuran	270	ug/kg	1,000	SW8260B/5035	12/16/12 13:13	JGH	200	JB
Chloroform	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	10	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	13	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	6.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 13:13	JGH	24	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 13:13	JGH	13	
Carbon tetrachloride	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	7.2	
Benzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	11	
1,2-Dichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	11	
Trichloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	9.7	
1,2-Dichloropropane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	11	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	9.1	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:13	JGH	13	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	5.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	9.7	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	6.6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	19	
Tetrachloroethene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	10	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	18	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	7.9	
1,2-Dibromoethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	12	
Chlorobenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	11	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	6.6	
Ethylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	14	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	27	
o-Xylene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	13	
Styrene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	10	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:13	JGH	13	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	7.9	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	18	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S54910.14 (continued)
Sample Tag: SB-118(12/11/12) (7-8)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	16	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	14	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	15	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	16	
tert-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	13	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	13	
sec-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	15	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	16	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	12	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	11	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	16	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 13:13	JGH	2.4	
n-Butylbenzene	Not detected	ug/kg	60	SW8260B/5035	12/16/12 13:13	JGH	14	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:13	JGH	9.1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:13	JGH	11	
1,2,4-Trichlorobenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:13	JGH	14	
1,2,3-Trichlorobenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:13	JGH	17	
Naphthalene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:13	JGH	15	
2-Methylnaphthalene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:13	JGH	17	

Analytical Laboratory Report

Lab Sample ID: S54910.15
Sample Tag: SB-118(12/11/12) (16-17)
Collected Date/Time: 12/11/2012 16:10
Matrix: Soil
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 12:05	JKB	0.6	
Total Solids	78	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	1.76	mg/kg	0.20	SW6020	12/13/12 14:27	PER	0.033	
Barium	42.9	mg/kg	1.0	SW6020	12/13/12 14:27	PER	0.18	
Cadmium	0.19	mg/kg	0.20	SW6020	12/13/12 14:27	PER	0.027	b
Chromium	5.09	mg/kg	0.50	SW6020	12/13/12 14:27	PER	0.042	
Copper	14.4	mg/kg	0.50	SW6020	12/13/12 14:27	PER	0.098	
Lead	9.49	mg/kg	0.30	SW6020	12/13/12 14:27	PER	0.022	
Mercury	0.02	mg/kg	0.050	SW7471A	12/18/12 13:42	JRT	0.00074	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:27	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:27	PER	0.013	
Zinc	26.2	mg/kg	1.0	SW6020	12/13/12 14:27	PER	0.049	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	15	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	17	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	17	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	20	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	17	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	39	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	30	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	19	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	23	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	14	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	21	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	15	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	15	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	18	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	15	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	19	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	21	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 20:46	PL	15	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.15 (continued)
Sample Tag: SB-118(12/11/12) (16-17)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:31	JGH	18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	12/16/12 13:31	JGH	73	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	19	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:31	JGH	8.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:31	JGH	15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	19	
2-Butanone (MEK)	78	ug/kg	1,200	SW8260B/5035	12/16/12 13:31	JGH	19	JB
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:31	JGH	29	
Chloromethane	155	ug/kg	400	SW8260B/5035	12/16/12 13:31	JGH	44	JB
Vinyl chloride	250	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 13:31	JGH	12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:31	JGH	9.3	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	12	
1,1-Dichloroethene	110	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	14	
Methylene chloride	12	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	12	J
trans-1,2-Dichloroethene	200	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	13	
1,1-Dichloroethane	80	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	11	
cis-1,2-Dichloroethene	11,960	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	15	
Tetrahydrofuran	360	ug/kg	2,000	SW8260B/5035	12/16/12 13:31	JGH	260	JB
Chloroform	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	7.7	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 13:31	JGH	30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	12/16/12 13:31	JGH	17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	9.3	
Benzene	26	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	15	J
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	14	
Trichloroethene	29	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	12	J
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:31	JGH	16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	7.0	
Toluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	8.5	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	22	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	10	
1,2-Dibromoethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	15	
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	8.5	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:31	JGH	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	22	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.15 (continued)
Sample Tag: SB-118(12/11/12) (16-17)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	19	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	19	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	15	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	12/16/12 13:31	JGH	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	12/16/12 13:31	JGH	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	12/16/12 13:31	JGH	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 13:31	JGH	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/16/12 13:31	JGH	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	12/16/12 13:31	JGH	22	
Naphthalene	Not detected	ug/kg	510	SW8260B/5035	12/16/12 13:31	JGH	19	
2-Methylnaphthalene	Not detected	ug/kg	510	SW8260B/5035	12/16/12 13:31	JGH	22	

Analytical Laboratory Report

Lab Sample ID: S54910.16
Sample Tag: Dup-4 (12/10/12)
Collected Date/Time: 12/10/2012 00:01
Matrix: Soil
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 12:10	JKB	0.6	
Total Solids	88	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	0.98	mg/kg	0.20	SW6020	12/13/12 14:29	PER	0.030	
Barium	8.31	mg/kg	1.0	SW6020	12/13/12 14:29	PER	0.17	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 14:29	PER	0.024	
Chromium	2.71	mg/kg	0.50	SW6020	12/13/12 14:29	PER	0.038	
Copper	3.39	mg/kg	0.50	SW6020	12/13/12 14:29	PER	0.088	
Lead	2.24	mg/kg	0.30	SW6020	12/13/12 14:29	PER	0.020	
Mercury	0.8299	mg/kg	0.050	SW7471A	12/18/12 13:44	JRT	0.00067	
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:29	PER	0.094	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:29	PER	0.012	
Zinc	8.22	mg/kg	1.0	SW6020	12/13/12 14:29	PER	0.044	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	144	ug/kg	400	SW8270C	12/18/12 23:00	PL	45	JX
Acenaphthylene	Not detected	ug/kg	400	SW8270C	12/18/12 23:00	PL	52	X
Anthracene	106	ug/kg	400	SW8270C	12/18/12 23:00	PL	52	JX
Benzo(a)anthracene	227	ug/kg	400	SW8270C	12/18/12 23:00	PL	60	JX
Benzo(a)pyrene	242	ug/kg	400	SW8270C	12/18/12 23:00	PL	52	JX
Benzo(b)fluoranthene	380	ug/kg	400	SW8270C	12/18/12 23:00	PL	120	JXp
Benzo(k)fluoranthene	400	ug/kg	400	SW8270C	12/18/12 23:00	PL	89	Xp
Benzo(ghi)perylene	144	ug/kg	400	SW8270C	12/18/12 23:00	PL	58	JX
Chrysene	258	ug/kg	400	SW8270C	12/18/12 23:00	PL	69	JX
Dibenzo(ah)anthracene	Not detected	ug/kg	400	SW8270C	12/18/12 23:00	PL	42	X
Fluoranthene	800	ug/kg	400	SW8270C	12/18/12 23:00	PL	63	X
Fluorene	91	ug/kg	400	SW8270C	12/18/12 23:00	PL	45	JX
Indeno(1,2,3-cd)pyrene	114	ug/kg	400	SW8270C	12/18/12 23:00	PL	45	JX
Naphthalene	Not detected	ug/kg	400	SW8270C	12/18/12 23:00	PL	53	X
Phenanthrene	400	ug/kg	400	SW8270C	12/18/12 23:00	PL	45	X
Pyrene	700	ug/kg	400	SW8270C	12/18/12 23:00	PL	56	X
2-Methylnaphthalene	Not detected	ug/kg	400	SW8270C	12/18/12 23:00	PL	61	X
1-Methylnaphthalene	Not detected	ug/kg	400	SW8270C	12/18/12 23:00	PL	43	X

J-Estimated value less than reporting limit, but greater than MDL X-Elevated reporting limit due to matrix interference
p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.

Analytical Laboratory Report

Lab Sample ID: S54910.16 (continued)
Sample Tag: Dup-4 (12/10/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	16	
Acetone	129	ug/kg	1,000	SW8260B/5035	12/16/12 21:28	WAT	65	BJ
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	7.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	17	
2-Butanone (MEK)	92	ug/kg	1,000	SW8260B/5035	12/16/12 21:28	WAT	17	BJ
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	26	
Chloromethane	110	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	40	BJ
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	8.3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	12	
Methylene chloride	12	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	9.7	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	14	
Tetrahydrofuran	350	ug/kg	1,000	SW8260B/5035	12/16/12 21:28	WAT	230	BJ
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	6.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 21:28	WAT	27	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 21:28	WAT	15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	8.3	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	6.2	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	7.6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	20	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	9.0	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	12/16/12 21:28	WAT	14	
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	7.6	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	31	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	9.0	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	20	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Lab Sample ID: S54910.16 (continued)
Sample Tag: Dup-4 (12/10/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	15	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	18	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 21:28	WAT	2.8	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 21:28	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 21:28	WAT	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 21:28	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	460	SW8260B/5035	12/16/12 21:28	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	460	SW8260B/5035	12/16/12 21:28	WAT	19	
Naphthalene	Not detected	ug/kg	460	SW8260B/5035	12/16/12 21:28	WAT	17	
2-Methylnaphthalene	Not detected	ug/kg	460	SW8260B/5035	12/16/12 21:28	WAT	19	

Analytical Laboratory Report

Lab Sample ID: S54910.17
Sample Tag: Dup-5 (12/11/12)
Collected Date/Time: 12/11/2012 00:01
Matrix: Soil
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 12:15	JKB	0.6	
Total Solids	85	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	0.69	mg/kg	0.20	SW6020	12/13/12 14:31	PER	0.033	
Barium	5.18	mg/kg	1.0	SW6020	12/13/12 14:31	PER	0.18	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 14:31	PER	0.026	
Chromium	0.93	mg/kg	0.50	SW6020	12/13/12 14:31	PER	0.042	
Copper	1.76	mg/kg	0.50	SW6020	12/13/12 14:31	PER	0.097	
Lead	1.68	mg/kg	0.30	SW6020	12/13/12 14:31	PER	0.022	
Mercury	0.02	mg/kg	0.050	SW7471A	12/18/12 13:48	JRT	0.00068	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:31	PER	0.10	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:31	PER	0.013	
Zinc	3.51	mg/kg	1.0	SW6020	12/13/12 14:31	PER	0.048	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	19	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	36	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	28	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	21	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	20	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	16	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	17	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	19	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 21:05	PL	13	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.17 (continued)
Sample Tag: Dup-5 (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	15	
Acetone	72	ug/kg	1,000	SW8260B/5035	12/16/12 14:08	JGH	62	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	16	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	7.2	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	16	
2-Butanone (MEK)	63	ug/kg	990	SW8260B/5035	12/16/12 14:08	JGH	16	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	25	
Chloromethane	128	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	38	JB
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	7.9	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	12	
Methylene chloride	13	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	11	J
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	11	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	9.2	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	13	
Tetrahydrofuran	290	ug/kg	1,000	SW8260B/5035	12/16/12 14:08	JGH	220	JB
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	11	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	6.6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 14:08	JGH	26	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 14:08	JGH	14	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	7.9	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	9.9	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	5.9	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	7.2	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	21	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	11	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	19	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	8.6	
1,2-Dibromoethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	13	
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	7.2	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	15	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	29	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	11	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	8.6	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	19	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.17 (continued)
Sample Tag: Dup-5 (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	15	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	16	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	17	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	14	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	16	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	13	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	17	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:08	JGH	2.6	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:08	JGH	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 14:08	JGH	9.9	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:08	JGH	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	12/16/12 14:08	JGH	15	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	12/16/12 14:08	JGH	18	
Naphthalene	Not detected	ug/kg	430	SW8260B/5035	12/16/12 14:08	JGH	16	
2-Methylnaphthalene	Not detected	ug/kg	430	SW8260B/5035	12/16/12 14:08	JGH	18	

Analytical Laboratory Report

Lab Sample ID: S54910.18
Sample Tag: Dup-6 (12/11/12)
Collected Date/Time: 12/11/2012 00:01
Matrix: Soil
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	4oz Glass	None	Yes	5.0	IR
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471A	12/17/12 12:30	JRH		
Metal Digestion	Completed			3050B	12/13/12 09:00	PER		
PNA Extraction	Completed			3550B	12/14/12 22:52	EMR		
Inorganics								
Chromium VI	Not detected	mg/kg	1	3500-Cr B	12/18/12 12:20	JKB	0.6	
Total Solids	86	%	1	Std M 2540 B	12/12/12 17:00	RGS		
Metals								
Arsenic	0.30	mg/kg	0.20	SW6020	12/13/12 14:33	PER	0.031	
Barium	8.05	mg/kg	1.0	SW6020	12/13/12 14:33	PER	0.17	
Cadmium	Not detected	mg/kg	0.20	SW6020	12/13/12 14:33	PER	0.025	
Chromium	0.88	mg/kg	0.50	SW6020	12/13/12 14:33	PER	0.039	
Copper	0.80	mg/kg	0.50	SW6020	12/13/12 14:33	PER	0.090	
Lead	1.77	mg/kg	0.30	SW6020	12/13/12 14:33	PER	0.021	
Mercury	0.02	mg/kg	0.050	SW7471A	12/18/12 13:50	JRT	0.00067	b
Selenium	Not detected	mg/kg	0.40	SW6020	12/13/12 14:33	PER	0.096	
Silver	Not detected	mg/kg	0.10	SW6020	12/13/12 14:33	PER	0.012	
Zinc	2.64	mg/kg	1.0	SW6020	12/13/12 14:33	PER	0.045	
Organics - Semi-Volatiles								
Polynuclear Aromatics								
Acenaphthene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	14	
Acenaphthylene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	16	
Anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	16	
Benzo(a)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	18	
Benzo(a)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	16	
Benzo(b)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	35	
Benzo(k)fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	27	
Benzo(ghi)perylene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	18	
Chrysene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	21	
Dibenzo(ah)anthracene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	13	
Fluoranthene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	19	
Fluorene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	14	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	14	
Naphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	16	
Phenanthrene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	14	
Pyrene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	17	
2-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	19	
1-Methylnaphthalene	Not detected	ug/kg	300	SW8270C	12/18/12 21:24	PL	13	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54910.18 (continued)
Sample Tag: Dup-6 (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	15	
Acetone	80	ug/kg	1,000	SW8260B/5035	12/16/12 14:26	JGH	61	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	16	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	7.2	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	12	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	16	
2-Butanone (MEK)	60	ug/kg	980	SW8260B/5035	12/16/12 14:26	JGH	16	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	25	
Chloromethane	121	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	37	JB
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	10	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	7.8	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	10	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	12	
Methylene chloride	12	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	10	J
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	11	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	9.1	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	13	
Tetrahydrofuran	300	ug/kg	1,000	SW8260B/5035	12/16/12 14:26	JGH	220	JB
Chloroform	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	11	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	6.5	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 14:26	JGH	25	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 14:26	JGH	14	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	7.8	
Benzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	12	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	10	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	12	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	9.8	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	5.9	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	10	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	7.2	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	21	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	11	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	19	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	8.5	
1,2-Dibromoethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	13	
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	7.2	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	15	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	29	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	11	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	8.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	19	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S54910.18 (continued)
Sample Tag: Dup-6 (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	15	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	16	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	17	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	14	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	16	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	13	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	12	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	17	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:26	JGH	2.6	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	12/16/12 14:26	JGH	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	12/16/12 14:26	JGH	9.8	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:26	JGH	12	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	12/16/12 14:26	JGH	15	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	12/16/12 14:26	JGH	18	
Naphthalene	Not detected	ug/kg	430	SW8260B/5035	12/16/12 14:26	JGH	16	
2-Methylnaphthalene	Not detected	ug/kg	430	SW8260B/5035	12/16/12 14:26	JGH	18	

Analytical Laboratory Report

Lab Sample ID: S54910.19
Sample Tag: Trip Blank (12/10/12)
Collected Date/Time: 12/10/2012 00:01
Matrix: Methanol
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 14:44	JGH	12	
Acetone	58	ug/kg	1,000	SW8260B/5035	12/16/12 14:44	JGH	47	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:44	JGH	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 14:44	JGH	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	13	
2-Butanone (MEK)	48	ug/kg	750	SW8260B/5035	12/16/12 14:44	JGH	13	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:44	JGH	19	
Chloromethane	99	ug/kg	300	SW8260B/5035	12/16/12 14:44	JGH	29	JB
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 14:44	JGH	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:44	JGH	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	9.0	
Methylene chloride	9.0	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	8.0	J
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	10	
Tetrahydrofuran	230	ug/kg	1,000	SW8260B/5035	12/16/12 14:44	JGH	170	JB
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 14:44	JGH	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 14:44	JGH	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:44	JGH	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	6.5	
1,2-Dibromoethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	10	
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	5.5	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.19 (continued)
Sample Tag: Trip Blank (12/10/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:44	JGH	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 14:44	JGH	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 14:44	JGH	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:44	JGH	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 14:44	JGH	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 14:44	JGH	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 14:44	JGH	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 14:44	JGH	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 14:44	JGH	14	

Analytical Laboratory Report

Lab Sample ID: S54910.20
Sample Tag: Field Blank (12/10/12)
Collected Date/Time: 12/10/2012 00:01
Matrix: Methanol
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:03	JGH	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	12/16/12 15:03	JGH	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:03	JGH	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:03	JGH	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	13	
2-Butanone (MEK)	41	ug/kg	750	SW8260B/5035	12/16/12 15:03	JGH	13	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:03	JGH	19	
Chloromethane	95	ug/kg	300	SW8260B/5035	12/16/12 15:03	JGH	29	JB
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:03	JGH	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:03	JGH	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	9.0	
Methylene chloride	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	8.0	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	10	
Tetrahydrofuran	230	ug/kg	1,000	SW8260B/5035	12/16/12 15:03	JGH	170	JB
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 15:03	JGH	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 15:03	JGH	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:03	JGH	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	6.5	
1,2-Dibromoethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	10	
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	5.5	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.20 (continued)
Sample Tag: Field Blank (12/10/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:03	JGH	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:03	JGH	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:03	JGH	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:03	JGH	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:03	JGH	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:03	JGH	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:03	JGH	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:03	JGH	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:03	JGH	14	

Analytical Laboratory Report

Lab Sample ID: S54910.21
Sample Tag: Trip Blank (12/11/12)
Collected Date/Time: 12/11/2012 00:01
Matrix: Methanol
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:21	JGH	12	
Acetone	72	ug/kg	1,000	SW8260B/5035	12/16/12 15:21	JGH	47	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:21	JGH	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:21	JGH	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	13	
2-Butanone (MEK)	42	ug/kg	750	SW8260B/5035	12/16/12 15:21	JGH	13	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:21	JGH	19	
Chloromethane	95	ug/kg	300	SW8260B/5035	12/16/12 15:21	JGH	29	JB
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:21	JGH	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:21	JGH	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	9.0	
Methylene chloride	9.0	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	8.0	J
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	10	
Tetrahydrofuran	230	ug/kg	1,000	SW8260B/5035	12/16/12 15:21	JGH	170	JB
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 15:21	JGH	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 15:21	JGH	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:21	JGH	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	6.5	
1,2-Dibromoethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	10	
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	5.5	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Lab Sample ID: S54910.21 (continued)
Sample Tag: Trip Blank (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:21	JGH	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:21	JGH	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:21	JGH	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:21	JGH	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:21	JGH	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:21	JGH	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:21	JGH	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:21	JGH	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:21	JGH	14	

Analytical Laboratory Report

Lab Sample ID: S54910.22
Sample Tag: Field Blank (12/11/12)
Collected Date/Time: 12/11/2012 00:01
Matrix: Methanol
COC Reference: 82691

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:40	JGH	12	
Acetone	66	ug/kg	1,000	SW8260B/5035	12/16/12 15:40	JGH	47	JB
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:40	JGH	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:40	JGH	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	13	
2-Butanone (MEK)	44	ug/kg	750	SW8260B/5035	12/16/12 15:40	JGH	13	JB
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:40	JGH	19	
Chloromethane	103	ug/kg	300	SW8260B/5035	12/16/12 15:40	JGH	29	JB
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	12/16/12 15:40	JGH	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:40	JGH	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	9.0	
Methylene chloride	8.5	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	8.0	J
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	10	
Tetrahydrofuran	230	ug/kg	1,000	SW8260B/5035	12/16/12 15:40	JGH	170	JB
Chloroform	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 15:40	JGH	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	12/16/12 15:40	JGH	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:40	JGH	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	6.5	
1,2-Dibromoethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	10	
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	9.0	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	5.5	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54910.22 (continued)
Sample Tag: Field Blank (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:40	JGH	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	12/16/12 15:40	JGH	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	12/16/12 15:40	JGH	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:40	JGH	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	12/16/12 15:40	JGH	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:40	JGH	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:40	JGH	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:40	JGH	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	12/16/12 15:40	JGH	14	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 2

82689

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc
ADDRESS: G-4300 S. Saginaw St.
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 128083
E-MAIL ADDRESS: [redacted] ae_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY: Facility # 12990-11-01
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 11-4317-102/RACER-Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / Josh Adams

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	YEAR TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	PNAs	10 Metals	Hex Chromium	Special Instructions
54910.01	12/10/12	10:21	SB-114 (12/10/12) (4-5)	S	2	1					1		X	X	X	X	Task #1
.02		10:46	SB-114 (12/10/12) (7-8)														
.03		11:07	SB-114 (12/10/12) (20-21)														
.04		12:37	SB-115 (12/10/12) (6-7)														
.05		12:50	SB-115 (12/10/12) (13-14)														
.06		13:03	SB-115 (12/10/12) (17-18)														
.07	12/11/12	9:57	SB-116 (12/11/12) (4-5)														
.08		10:13	SB-116 (12/11/12) (7-8)														
.09		10:22	SB-116 (12/11/12) (12-13)														
.10		10:51	SB-117 (12/11/12) (6-7)														
.11		11:14	SB-117 (12/11/12) (9-10)														
.12		11:27	SB-117 (12/11/12) (18-19)														

RELINQUISHED BY: SIGNATURE/ORGANIZATION: Josh Adams / Applied EcoSystems, Inc. ☒ Sampler	DATE: 12/12/12	TIME: 8:42	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION: Tabetha Faust	DATE: 12/12/12	TIME: 842	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 5.0
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
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C.O.C. PAGE # 2 OF 2

82691

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied Eco Systems, Inc.
ADDRESS: G-4300 S. Saginaw St.
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 128083
E-MAIL ADDRESS: ae_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY: Facility # 12990-11-01
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 11-4317-102 / RACER-Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

MERIT LAB NO. (FOR LAB USE ONLY)	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	VOCs	PAHs	10 Metals	Hex Chromium							Special Instructions
54910.13	12/11/12	15:41	SB-118 (12/11/12) (3.5-4.5)	S	2	1					1		X										Task #1
.14		15:49	SB-118 (12/11/12) (7-8)																				
.15		16:10	SB-118 (12/11/12) (16-17)																				
.16	12/10/12	—	DUP-4 (12/10/12)																				
.17	12/11/12	—	DUP-5 (12/11/12)																				
.18	12/11/12	—	DUP-6 (12/11/12)																				
.19	12/10/12		Trip Blank (12/10/12)		1																		
.20	12/10/12		Field Blank (12/10/12)		1																		
.21	12/11/12		Trip Blank (12/11/12)		1																		
.22	12/11/12		Field Blank (12/11/12)		1																		

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Applied EcoSystems, Inc. ☒ Sampler	DATE: 12/10/12	TIME: 8:42	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION: Tabitha Faust	DATE: 12/12/12	TIME: 8:42	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S54960.01(01)
Generated on 12/27/2012

Report to

Attention: Mike Smith
Applied Ecosystems
G4300 S. Saginaw St.
Burton, MI 48529

Phone: 810-715-2525 FAX: 810-715-2526
Email: msmith@appliedecosystems.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54960.01-S54960.06
Project: 11-4317-102/ Former Building 9
Collected Date: 12/13/2012
Submitted Date/Time: 12/14/2012 08:00
Sampled by: Josh Adams
P.O. #: PO128083

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
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Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (6 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54960.01	MW-100S (3/07/2012)	Groundwater	12/13/2012 10:25
S54960.02	MW-104S (12/05/12)	Groundwater	12/13/2012 09:03
S54960.03	MW-105S (12/05/12)	Groundwater	12/13/2012 09:14
S54960.04	MW-107S (12/06/12)	Groundwater	12/13/2012 11:11
S54960.05	Trip Blank (12/13/12)	Groundwater	12/13/2012 00:01
S54960.06	Field Blank (12/13/12)	Groundwater	12/13/2012 00:01

Analytical Laboratory Report

Lab Sample ID: S54960.01
Sample Tag: MW-100S (3/07/2012)
Collected Date/Time: 12/13/2012 10:25
Matrix: Groundwater
COC Reference: 82692

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	12/17/12 13:05	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/16/12 22:10	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/16/12 22:10	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/16/12 22:10	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/16/12 22:10	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.16	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.090	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.10	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.076	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.082	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.071	
cis-1,2-Dichloroethene	0.770	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.055	J
Tetrahydrofuran	1.04	ug/L	90	SW8260B	12/16/12 22:10	WAT	0.62	BJ
Chloroform	0.140	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.091	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/16/12 22:10	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/16/12 22:10	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.12	
Benzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.091	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.10	
Trichloroethene	4	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.11	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.11	
Toluene	0.190	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.086	J
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.094	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.21	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54960.01 (continued)
Sample Tag: MW-100S (3/07/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/16/12 22:10	WAT	0.13	
o-Xylene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.092	
Styrene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 22:10	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.064	
Naphthalene	0.090	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.054	J
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/16/12 22:10	WAT	0.035	

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54960.02
Sample Tag: MW-104S (12/05/12)
Collected Date/Time: 12/13/2012 09:03
Matrix: Groundwater
COC Reference: 82692

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/17/12 13:10	WAT		
PNA Extraction	Completed			3510C	12/17/12 23:59	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 08:20	JKB	0.02	
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	12/20/12 13:46	PER	0.00026	
Barium	0.065	mg/L	0.005	E200.8	12/20/12 13:46	PER	0.00016	
Cadmium	Not detected	mg/L	0.0005	E200.8	12/20/12 13:46	PER	0.000040	
Chromium	Not detected	mg/L	0.005	E200.8	12/20/12 13:46	PER	0.00030	
Copper	Not detected	mg/L	0.004	E200.8	12/20/12 13:46	PER	0.000090	
Lead	Not detected	mg/L	0.003	E200.8	12/20/12 13:46	PER	0.000020	
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:27	JRT	0.000018	
Selenium	0.003	mg/L	0.005	E200.8	12/20/12 13:46	PER	0.00076	b
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 13:46	PER	0.000040	
Zinc	0.002	mg/L	0.005	E200.8	12/20/12 13:46	PER	0.00070	b
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/18/12 14:04	PL	0.34	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/18/12 14:04	PL	0.32	
Anthracene	Not detected	ug/L	5	SW8270C	12/18/12 14:04	PL	0.38	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/18/12 14:04	PL	0.31	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/18/12 14:04	PL	0.32	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/18/12 14:04	PL	0.38	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/18/12 14:04	PL	0.32	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/18/12 14:04	PL	0.29	
Chrysene	Not detected	ug/L	1	SW8270C	12/18/12 14:04	PL	0.41	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/18/12 14:04	PL	0.33	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/18/12 14:04	PL	0.34	
Fluorene	Not detected	ug/L	5	SW8270C	12/18/12 14:04	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/18/12 14:04	PL	0.37	
Naphthalene	Not detected	ug/L	5	SW8270C	12/18/12 14:04	PL	0.34	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/18/12 14:04	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	12/18/12 14:04	PL	0.28	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/18/12 14:04	PL	0.30	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54960.02 (continued)
Sample Tag: MW-104S (12/05/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/18/12 14:04	PL	0.30	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/16/12 13:50	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/16/12 13:50	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/16/12 13:50	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/16/12 13:50	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.16	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.090	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.10	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.076	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.082	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.071	
cis-1,2-Dichloroethene	0.340	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.055	J
Tetrahydrofuran	1.06	ug/L	90	SW8260B	12/16/12 13:50	WAT	0.62	BJ
Chloroform	0.500	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.091	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/16/12 13:50	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/16/12 13:50	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.12	
Benzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.091	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.10	
Trichloroethene	0.85	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.11	J
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.11	
Toluene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.086	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.094	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/16/12 13:50	WAT	0.13	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54960.02 (continued)
Sample Tag: MW-104S (12/05/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
o-Xylene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.092	
Styrene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 13:50	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.054	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/16/12 13:50	WAT	0.035	

Analytical Laboratory Report

Lab Sample ID: S54960.03
Sample Tag: MW-105S (12/05/12)
Collected Date/Time: 12/13/2012 09:14
Matrix: Groundwater
COC Reference: 82692

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/17/12 13:10	WAT		
PNA Extraction	Completed			3510C	12/17/12 23:59	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 08:30	JKB	0.02	
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	12/20/12 13:48	PER	0.00026	
Barium	0.054	mg/L	0.005	E200.8	12/20/12 13:48	PER	0.00016	
Cadmium	Not detected	mg/L	0.0005	E200.8	12/20/12 13:48	PER	0.000040	
Chromium	Not detected	mg/L	0.005	E200.8	12/20/12 13:48	PER	0.00030	
Copper	0.002	mg/L	0.004	E200.8	12/20/12 13:48	PER	0.000090	b
Lead	Not detected	mg/L	0.003	E200.8	12/20/12 13:48	PER	0.000020	
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:29	JRT	0.000018	
Selenium	0.010	mg/L	0.005	E200.8	12/20/12 13:48	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 13:48	PER	0.000040	
Zinc	0.005	mg/L	0.005	E200.8	12/20/12 13:48	PER	0.00070	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/18/12 14:23	PL	0.36	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/18/12 14:23	PL	0.34	
Anthracene	Not detected	ug/L	5	SW8270C	12/18/12 14:23	PL	0.41	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/18/12 14:23	PL	0.33	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/18/12 14:23	PL	0.34	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/18/12 14:23	PL	0.40	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/18/12 14:23	PL	0.34	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/18/12 14:23	PL	0.30	
Chrysene	Not detected	ug/L	1	SW8270C	12/18/12 14:23	PL	0.43	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/18/12 14:23	PL	0.35	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/18/12 14:23	PL	0.36	
Fluorene	Not detected	ug/L	5	SW8270C	12/18/12 14:23	PL	0.32	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/18/12 14:23	PL	0.39	
Naphthalene	Not detected	ug/L	5	SW8270C	12/18/12 14:23	PL	0.35	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/18/12 14:23	PL	0.31	
Pyrene	Not detected	ug/L	5	SW8270C	12/18/12 14:23	PL	0.30	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/18/12 14:23	PL	0.32	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54960.03 (continued)
Sample Tag: MW-105S (12/05/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/18/12 14:23	PL	0.32	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/16/12 14:10	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/16/12 14:10	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/16/12 14:10	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/16/12 14:10	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.16	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.090	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.10	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.076	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.082	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.071	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.055	
Tetrahydrofuran	0.96	ug/L	90	SW8260B	12/16/12 14:10	WAT	0.62	BJ
Chloroform	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.091	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/16/12 14:10	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/16/12 14:10	WAT	0.14	
Carbon tetrachloride	0.15	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.12	J
Benzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.091	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.10	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.11	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.11	
Toluene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.086	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.094	
Tetrachloroethene	25	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/16/12 14:10	WAT	0.13	
o-Xylene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.092	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54960.03 (continued)
Sample Tag: MW-105S (12/05/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Styrene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:10	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.054	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/16/12 14:10	WAT	0.035	

Analytical Laboratory Report

Lab Sample ID: S54960.04
Sample Tag: MW-107S (12/06/12)
Collected Date/Time: 12/13/2012 11:11
Matrix: Groundwater
COC Reference: 82692

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/17/12 13:10	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 08:40	JKB	0.02	
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	12/20/12 13:50	PER	0.00026	
Barium	0.118	mg/L	0.005	E200.8	12/20/12 13:50	PER	0.00016	
Cadmium	Not detected	mg/L	0.0005	E200.8	12/20/12 13:50	PER	0.000040	
Chromium	Not detected	mg/L	0.005	E200.8	12/20/12 13:50	PER	0.00030	
Copper	Not detected	mg/L	0.004	E200.8	12/20/12 13:50	PER	0.000090	
Lead	Not detected	mg/L	0.003	E200.8	12/20/12 13:50	PER	0.000020	
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:31	JRT	0.000018	
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 13:50	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 13:50	PER	0.000040	
Zinc	0.003	mg/L	0.005	E200.8	12/20/12 13:50	PER	0.00070	b
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/20/12 12:59	PL	0.26	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/20/12 12:59	PL	0.24	
Anthracene	Not detected	ug/L	5	SW8270C	12/20/12 12:59	PL	0.29	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/20/12 12:59	PL	0.23	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/20/12 12:59	PL	0.24	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 12:59	PL	0.28	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 12:59	PL	0.24	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/20/12 12:59	PL	0.21	
Chrysene	Not detected	ug/L	1	SW8270C	12/20/12 12:59	PL	0.31	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/20/12 12:59	PL	0.25	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 12:59	PL	0.26	
Fluorene	Not detected	ug/L	5	SW8270C	12/20/12 12:59	PL	0.23	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/20/12 12:59	PL	0.28	
Naphthalene	Not detected	ug/L	5	SW8270C	12/20/12 12:59	PL	0.25	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/20/12 12:59	PL	0.22	
Pyrene	Not detected	ug/L	5	SW8270C	12/20/12 12:59	PL	0.21	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 12:59	PL	0.22	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54960.04 (continued)
Sample Tag: MW-107S (12/06/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 12:59	PL	0.22	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/16/12 14:31	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/16/12 14:31	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/16/12 14:31	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/16/12 14:31	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.16	
Vinyl chloride	1	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.090	
1,1-Dichloroethene	0.18	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.10	J
Methylene chloride	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.076	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.082	
1,1-Dichloroethane	0.950	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.071	J
cis-1,2-Dichloroethene	6	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.055	
Tetrahydrofuran	1.00	ug/L	90	SW8260B	12/16/12 14:31	WAT	0.62	BJ
Chloroform	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.091	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/16/12 14:31	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/16/12 14:31	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.12	
Benzene	0.100	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.091	J
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.10	
Trichloroethene	6	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.11	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.11	
Toluene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.086	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.094	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/16/12 14:31	WAT	0.13	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54960.04 (continued)
Sample Tag: MW-107S (12/06/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
o-Xylene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.092	
Styrene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:31	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.054	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/16/12 14:31	WAT	0.035	

Analytical Laboratory Report

Lab Sample ID: S54960.05
Sample Tag: Trip Blank (12/13/12)
Collected Date/Time: 12/13/2012 00:01
Matrix: Groundwater
COC Reference: 82692

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	12/17/12 13:10	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/16/12 14:51	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/16/12 14:51	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.13	
Carbon disulfide	0.86	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.13	J
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/16/12 14:51	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/16/12 14:51	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.16	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.090	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.10	
Methylene chloride	0.080	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.076	J
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.082	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.071	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.055	
Tetrahydrofuran	31.37	ug/L	90	SW8260B	12/16/12 14:51	WAT	0.62	BJ
Chloroform	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.091	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/16/12 14:51	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/16/12 14:51	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.12	
Benzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.091	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.10	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.11	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.11	
Toluene	0.160	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.086	J
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.094	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.21	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54960.05 (continued)
Sample Tag: Trip Blank (12/13/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/16/12 14:51	WAT	0.13	
o-Xylene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.092	
Styrene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 14:51	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.054	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/16/12 14:51	WAT	0.035	

Analytical Laboratory Report

Lab Sample ID: S54960.06
Sample Tag: Field Blank (12/13/12)
Collected Date/Time: 12/13/2012 00:01
Matrix: Groundwater
COC Reference: 82692

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	HCL	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
pH check for VOCs	<2	STD Units		N/A	12/17/12 13:10	WAT		
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/16/12 15:11	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/16/12 15:11	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.13	
Carbon disulfide	5	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/16/12 15:11	WAT	0.15	
2-Butanone (MEK)	3.1	ug/L	25	SW8260B	12/16/12 15:11	WAT	1.7	BJ
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.096	
Chloromethane	0.46	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.16	J
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.090	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.10	
Methylene chloride	0.090	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.076	J
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.082	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.071	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.055	
Tetrahydrofuran	108	ug/L	90	SW8260B	12/16/12 15:11	WAT	0.62	B
Chloroform	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.091	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/16/12 15:11	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/16/12 15:11	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.12	
Benzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.091	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.10	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.11	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.11	
Toluene	0.120	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.086	J
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.094	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.054	

B-Compound also found in associated method blank J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54960.06 (continued)
Sample Tag: Field Blank (12/13/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/16/12 15:11	WAT	0.13	
o-Xylene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.092	
Styrene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/16/12 15:11	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.054	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/16/12 15:11	WAT	0.035	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

82692

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc
ADDRESS: 6-4300 S. Saginaw St.
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 128083
E-MAIL ADDRESS: ae_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY: Facility #12990-11-01
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 11-4317-102 / Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

MERIT LAB NO. (FOR LAB USE ONLY)	YEAR DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	PNAs	10 Metals	Hex Chromium	Special Instructions
54960.01	12/13/12	10:25	MW-100S (3/07/2012)	SW	2		2						X				Task #2
.02		9:03	MW-104S (12/05/12)		5	2	2	1					X	X	X	X	
.03		9:14	MW-105S (12/05/12		1								1	1	1	1	
.04		11:11	MW-107S (12/06/12)		1								1	1	1	1	
.05	12/13/12	—	Trip Blank (12/13/12)		1		2						X				
.06		—	Field Blank (12/13/12)		1		2						X				

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Applied EcoSystems, Inc (Sampler)	DATE: 12/13/12	TIME: 20:09	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION	DATE	TIME	

RELINQUISHED BY: SIGNATURE/ORGANIZATION	DATE	TIME	
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature]	DATE: 14DEC12	TIME: 0800	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL 3.1
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12

Analytical Laboratory Report

Report ID: S54961.01(01)
Generated on 12/27/2012

Report to

Attention: Mike Smith
Applied Ecosystems
G4300 S. Saginaw St.
Burton, MI 48529

Phone: 810-715-2525 FAX: 810-715-2526
Email: msmith@appliedecosystems.com

Report produced by

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Andy Ball (andyball@meritlabs.com)
Tabitha Faust (tfaust@meritlabs.com)

Report Summary

Lab Sample ID(s): S54961.01-S54961.09
Project: 11-4317-102/ Former Building 9
Collected Date: 12/13/2012
Submitted Date/Time: 12/14/2012 08:00
Sampled by: Josh Adams
P.O. #: PO128083

Report Notes

Results relate only to items tested as received by the laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.
Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:
Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak

Violetta F. Murshak
Laboratory Director

Analytical Laboratory Report

Sample Summary (9 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S54961.01	MW-101S (3/08/2012)	Groundwater	12/13/2012 10:08
S54961.02	MW-102S (3/08/2012)	Groundwater	12/13/2012 09:43
S54961.03	MW-103S (3/13/2012)	Groundwater	12/13/2012 11:49
S54961.04	MW-108S (12/10/12)	Groundwater	12/13/2012 13:17
S54961.05	MW-109S (12/11/12)	Groundwater	12/13/2012 13:47
S54961.06	MW-110S (12/11/12)	Groundwater	12/13/2012 14:32
S54961.07	MW-111S (12/11/12)	Groundwater	12/13/2012 12:15
S54961.08	DUP-1 (12/13/12)	Groundwater	12/13/2012 00:01
S54961.09	DUP-2 (12/13/12)	Groundwater	12/13/2012 00:01

Analytical Laboratory Report

Lab Sample ID: S54961.01
Sample Tag: MW-101S (3/08/2012)
Collected Date/Time: 12/13/2012 10:08
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	>2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 08:45	JKB	0.02	
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	12/20/12 14:15	PER	0.00026	
Barium	0.279	mg/L	0.005	E200.8	12/20/12 14:15	PER	0.00016	
Cadmium	0.0018	mg/L	0.0005	E200.8	12/20/12 14:15	PER	0.000040	
Chromium	Not detected	mg/L	0.005	E200.8	12/20/12 14:15	PER	0.00030	
Copper	Not detected	mg/L	0.004	E200.8	12/20/12 14:15	PER	0.000090	
Lead	Not detected	mg/L	0.003	E200.8	12/20/12 14:15	PER	0.000020	
Mercury	0.0004	mg/L	0.0001	E245.1	12/18/12 14:01	JRT	0.000018	
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 14:15	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:15	PER	0.000040	
Zinc	0.021	mg/L	0.005	E200.8	12/20/12 14:15	PER	0.00070	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/20/12 13:18	PL	0.26	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/20/12 13:18	PL	0.25	
Anthracene	Not detected	ug/L	5	SW8270C	12/20/12 13:18	PL	0.29	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/20/12 13:18	PL	0.23	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/20/12 13:18	PL	0.25	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:18	PL	0.28	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:18	PL	0.24	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/20/12 13:18	PL	0.22	
Chrysene	Not detected	ug/L	1	SW8270C	12/20/12 13:18	PL	0.31	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/20/12 13:18	PL	0.25	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:18	PL	0.26	
Fluorene	Not detected	ug/L	5	SW8270C	12/20/12 13:18	PL	0.23	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/20/12 13:18	PL	0.28	
Naphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:18	PL	0.25	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/20/12 13:18	PL	0.22	
Pyrene	Not detected	ug/L	5	SW8270C	12/20/12 13:18	PL	0.21	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:18	PL	0.23	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:18	PL	0.23	

Analytical Laboratory Report

Lab Sample ID: S54961.01 (continued)
Sample Tag: MW-101S (3/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/26/12 14:29	WAT	0.50	
Acetone	0.72	ug/L	50	SW8260B	12/26/12 14:29	WAT	0.56	J
Methyl iodide	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.25	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.24	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.19	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/26/12 14:29	WAT	0.57	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/26/12 14:29	WAT	0.26	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.50	
Chloromethane	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.26	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.31	
Bromomethane	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.32	
Chloroethane	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.34	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.33	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.29	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.20	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.20	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.26	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	12/26/12 14:29	WAT	1.3	
Chloroform	1	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.21	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.38	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.28	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/26/12 14:29	WAT	0.14	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/26/12 14:29	WAT	0.29	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.20	
Benzene	0.30	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.20	J
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.16	
Trichloroethene	5	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.23	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.20	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.23	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.20	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.19	
Toluene	0.67	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.25	J
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.25	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.28	
Tetrachloroethene	0.27	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.20	J
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.20	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.24	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.30	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.17	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.24	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.26	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 14:29	WAT	0.41	
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.25	
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.18	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.25	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.22	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.18	

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.01 (continued)
Sample Tag: MW-101S (3/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.33	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.23	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.27	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.26	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.18	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.22	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.25	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.21	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.24	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.23	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.28	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.061	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:29	WAT	0.22	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.21	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.47	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.19	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.20	
Naphthalene	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.21	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/26/12 14:29	WAT	0.16	

Analytical Laboratory Report

Lab Sample ID: S54961.02
Sample Tag: MW-102S (3/08/2012)
Collected Date/Time: 12/13/2012 09:43
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 08:50	JKB	0.02	
Metals								
Arsenic	0.002	mg/L	0.002	E200.8	12/20/12 14:17	PER	0.00026	
Barium	0.084	mg/L	0.005	E200.8	12/20/12 14:17	PER	0.00016	
Cadmium	Not detected	mg/L	0.0005	E200.8	12/20/12 14:17	PER	0.000040	
Chromium	0.010	mg/L	0.005	E200.8	12/20/12 14:17	PER	0.00030	
Copper	0.005	mg/L	0.004	E200.8	12/20/12 14:17	PER	0.000090	
Lead	0.002	mg/L	0.003	E200.8	12/20/12 14:17	PER	0.000020	b
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:03	JRT	0.000018	
Selenium	0.003	mg/L	0.005	E200.8	12/20/12 14:17	PER	0.00076	b
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:17	PER	0.000040	
Zinc	0.012	mg/L	0.005	E200.8	12/20/12 14:17	PER	0.00070	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/20/12 13:38	PL	0.31	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/20/12 13:38	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	12/20/12 13:38	PL	0.35	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/20/12 13:38	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/20/12 13:38	PL	0.29	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:38	PL	0.34	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:38	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/20/12 13:38	PL	0.26	
Chrysene	Not detected	ug/L	1	SW8270C	12/20/12 13:38	PL	0.37	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/20/12 13:38	PL	0.30	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:38	PL	0.31	
Fluorene	Not detected	ug/L	5	SW8270C	12/20/12 13:38	PL	0.27	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/20/12 13:38	PL	0.34	
Naphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:38	PL	0.30	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/20/12 13:38	PL	0.26	
Pyrene	Not detected	ug/L	5	SW8270C	12/20/12 13:38	PL	0.26	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:38	PL	0.27	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.02 (continued)
Sample Tag: MW-102S (3/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:38	PL	0.27	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/19/12 15:32	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/19/12 15:32	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/19/12 15:32	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/19/12 15:32	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.16	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.090	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.10	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.076	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.082	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.071	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.055	
Tetrahydrofuran	0.99	ug/L	90	SW8260B	12/19/12 15:32	WAT	0.62	JB
Chloroform	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.091	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/19/12 15:32	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/19/12 15:32	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.12	
Benzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.091	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.10	
Trichloroethene	0.68	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.11	J
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.11	
Toluene	0.120	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.086	J
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.094	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/19/12 15:32	WAT	0.13	
o-Xylene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.092	

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.02 (continued)
Sample Tag: MW-102S (3/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Styrene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:32	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.054	
2-Methylnaphthalene	0.110	ug/L	5	SW8260B	12/19/12 15:32	WAT	0.035	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.03
Sample Tag: MW-103S (3/13/2012)
Collected Date/Time: 12/13/2012 11:49
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 08:55	JKB	0.02	
Metals								
Arsenic	0.055	mg/L	0.002	E200.8	12/20/12 14:21	PER	0.00026	
Barium	0.586	mg/L	0.005	E200.8	12/20/12 14:21	PER	0.00016	
Cadmium	Not detected	mg/L	0.0005	E200.8	12/20/12 14:21	PER	0.000040	
Chromium	Not detected	mg/L	0.005	E200.8	12/20/12 14:21	PER	0.00030	
Copper	Not detected	mg/L	0.004	E200.8	12/20/12 14:21	PER	0.000090	
Lead	Not detected	mg/L	0.003	E200.8	12/20/12 14:21	PER	0.000020	
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:17	JRT	0.000018	
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 14:21	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:21	PER	0.000040	
Zinc	0.002	mg/L	0.005	E200.8	12/20/12 14:21	PER	0.00070	b
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.2	X
Acenaphthylene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.1	X
Anthracene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.5	X
Benzo(a)anthracene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.0	X
Benzo(a)pyrene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.1	X
Benzo(b)fluoranthene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.5	X
Benzo(k)fluoranthene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.1	X
Benzo(ghi)perylene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	1.9	X
Chrysene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.7	X
Dibenzo(ah)anthracene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.2	X
Fluoranthene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.2	X
Fluorene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.0	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.4	X
Naphthalene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.2	X
Phenanthrene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	1.9	X
Pyrene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	1.9	X

b-Value detected less than reporting limit, but greater than MDL
X-Elevated reporting limit due to matrix interference

Analytical Laboratory Report

Lab Sample ID: S54961.03 (continued)
Sample Tag: MW-103S (3/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
2-Methylnaphthalene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.0	X
1-Methylnaphthalene	Not detected	ug/L	9	SW8270C	12/20/12 15:33	PL	2.0	X
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/19/12 15:52	WAT	0.13	
Acetone	3.2	ug/L	50	SW8260B	12/19/12 15:52	WAT	2.7	J
Methyl iodide	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/19/12 15:52	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/19/12 15:52	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.16	
Vinyl chloride	0.96	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.10	J
Bromomethane	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.090	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.10	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.076	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.082	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.071	
cis-1,2-Dichloroethene	0.170	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.055	J
Tetrahydrofuran	0.97	ug/L	90	SW8260B	12/19/12 15:52	WAT	0.62	JB
Chloroform	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.091	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/19/12 15:52	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/19/12 15:52	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.12	
Benzene	0.210	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.091	J
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.10	
Trichloroethene	0.17	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.11	J
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.11	
Toluene	0.110	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.086	J
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.094	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.078	
Chlorobenzene	0.080	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.068	J
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.088	

X-Elevated reporting limit due to matrix interference
J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.03 (continued)
Sample Tag: MW-103S (3/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.081	
p,m-Xylene	0.18	ug/L	2	SW8260B	12/19/12 15:52	WAT	0.13	J
o-Xylene	0.100	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.092	J
Styrene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.092	
1,2,4-Trimethylbenzene	0.14	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.13	J
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.11	
1,2,3-Trimethylbenzene	0.140	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.091	J
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 15:52	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.054	
2-Methylnaphthalene	0.250	ug/L	5	SW8260B	12/19/12 15:52	WAT	0.035	JB

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.04
Sample Tag: MW-108S (12/10/12)
Collected Date/Time: 12/13/2012 13:17
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 09:00	JKB	0.02	
Metals								
Arsenic	Not detected	mg/L	0.002	E200.8	12/20/12 14:24	PER	0.00026	
Barium	0.101	mg/L	0.005	E200.8	12/20/12 14:24	PER	0.00016	
Cadmium	Not detected	mg/L	0.0005	E200.8	12/20/12 14:24	PER	0.000040	
Chromium	Not detected	mg/L	0.005	E200.8	12/20/12 14:24	PER	0.00030	
Copper	0.003	mg/L	0.004	E200.8	12/20/12 14:24	PER	0.000090	b
Lead	0.002	mg/L	0.003	E200.8	12/20/12 14:24	PER	0.000020	b
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:05	JRT	0.000018	
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 14:24	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:24	PER	0.000040	
Zinc	0.008	mg/L	0.005	E200.8	12/20/12 14:24	PER	0.00070	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/20/12 13:57	PL	0.25	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/20/12 13:57	PL	0.24	
Anthracene	Not detected	ug/L	5	SW8270C	12/20/12 13:57	PL	0.28	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/20/12 13:57	PL	0.23	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/20/12 13:57	PL	0.24	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:57	PL	0.28	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:57	PL	0.24	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/20/12 13:57	PL	0.21	
Chrysene	Not detected	ug/L	1	SW8270C	12/20/12 13:57	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/20/12 13:57	PL	0.25	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 13:57	PL	0.25	
Fluorene	Not detected	ug/L	5	SW8270C	12/20/12 13:57	PL	0.22	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/20/12 13:57	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:57	PL	0.25	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/20/12 13:57	PL	0.22	
Pyrene	Not detected	ug/L	5	SW8270C	12/20/12 13:57	PL	0.21	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:57	PL	0.22	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.04 (continued)
Sample Tag: MW-108S (12/10/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 13:57	PL	0.22	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/19/12 16:13	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/19/12 16:13	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/19/12 16:13	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/19/12 16:13	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.16	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.11	
Chloroethane	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.10	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.090	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.10	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.076	
trans-1,2-Dichloroethene	0.130	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.082	J
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.071	
cis-1,2-Dichloroethene	2	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.055	
Tetrahydrofuran	1.25	ug/L	90	SW8260B	12/19/12 16:13	WAT	0.62	JB
Chloroform	6	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.091	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.069	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.058	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/19/12 16:13	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/19/12 16:13	WAT	0.14	
Carbon tetrachloride	3	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.12	
Benzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.091	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.10	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.11	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.11	
Toluene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.086	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.094	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.075	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/19/12 16:13	WAT	0.13	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.04 (continued)
Sample Tag: MW-108S (12/10/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
o-Xylene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.092	
Styrene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 16:13	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.054	
2-Methylnaphthalene	0.070	ug/L	5	SW8260B	12/19/12 16:13	WAT	0.035	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.05
Sample Tag: MW-109S (12/11/12)
Collected Date/Time: 12/13/2012 13:47
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 09:05	JKB	0.02	
Metals								
Arsenic	0.003	mg/L	0.002	E200.8	12/20/12 14:26	PER	0.00026	
Barium	0.109	mg/L	0.005	E200.8	12/20/12 14:26	PER	0.00016	
Cadmium	0.0008	mg/L	0.0005	E200.8	12/20/12 14:26	PER	0.000040	
Chromium	0.006	mg/L	0.005	E200.8	12/20/12 14:26	PER	0.00030	
Copper	0.028	mg/L	0.004	E200.8	12/20/12 14:26	PER	0.000090	
Lead	0.020	mg/L	0.003	E200.8	12/20/12 14:26	PER	0.000020	
Mercury	0.000049	mg/L	0.0001	E245.1	12/18/12 14:07	JRT	0.000018	b
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 14:26	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:26	PER	0.000040	
Zinc	0.047	mg/L	0.005	E200.8	12/20/12 14:26	PER	0.00070	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/20/12 14:16	PL	0.31	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/20/12 14:16	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	12/20/12 14:16	PL	0.35	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/20/12 14:16	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/20/12 14:16	PL	0.29	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:16	PL	0.34	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:16	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/20/12 14:16	PL	0.26	
Chrysene	Not detected	ug/L	1	SW8270C	12/20/12 14:16	PL	0.37	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/20/12 14:16	PL	0.30	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:16	PL	0.31	
Fluorene	Not detected	ug/L	5	SW8270C	12/20/12 14:16	PL	0.27	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/20/12 14:16	PL	0.34	
Naphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:16	PL	0.30	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/20/12 14:16	PL	0.26	
Pyrene	Not detected	ug/L	5	SW8270C	12/20/12 14:16	PL	0.26	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:16	PL	0.27	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.05 (continued)
Sample Tag: MW-109S (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:16	PL	0.27	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	50	SW8260B	12/26/12 15:37	WAT	2.5	Y
Acetone	Not detected	ug/L	250	SW8260B	12/26/12 15:37	WAT	2.8	Y
Methyl iodide	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.3	Y
Carbon disulfide	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.2	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	0.95	Y
Acrylonitrile	Not detected	ug/L	10	SW8260B	12/26/12 15:37	WAT	2.8	Y
2-Butanone (MEK)	Not detected	ug/L	130	SW8260B	12/26/12 15:37	WAT	1.3	Y
Dichlorodifluoromethane	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	2.5	Y
Chloromethane	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.3	Y
Vinyl chloride	28	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.5	Y
Bromomethane	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.6	Y
Chloroethane	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.7	Y
Trichlorofluoromethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.6	Y
1,1-Dichloroethene	5	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.3	Y
Methylene chloride	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.4	Y
trans-1,2-Dichloroethene	1.95	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.99	JY
1,1-Dichloroethane	4.0	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.0	JY
cis-1,2-Dichloroethene	105	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.3	Y
Tetrahydrofuran	8.2	ug/L	450	SW8260B	12/26/12 15:37	WAT	6.3	BJY
Chloroform	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.0	Y
Bromochloromethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.9	Y
1,1,1-Trichloroethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.4	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	250	SW8260B	12/26/12 15:37	WAT	0.71	Y
2-Hexanone	Not detected	ug/L	250	SW8260B	12/26/12 15:37	WAT	1.4	Y
Carbon tetrachloride	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.98	Y
Benzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.00	Y
1,2-Dichloroethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.78	Y
Trichloroethene	166	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.2	Y
1,2-Dichloropropane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.0	Y
Bromodichloromethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.1	Y
Dibromomethane	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.0	Y
cis-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.97	Y
Toluene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.2	Y
trans-1,3-Dichloropropene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.3	Y
1,1,2-Trichloroethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.4	Y
Tetrachloroethene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.0	Y
trans-1,4-Dichloro-2-butene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.00	Y
Dibromochloromethane	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.2	Y
1,2-Dibromoethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.5	Y
Chlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.84	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.2	Y
Ethylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.3	Y

Y-Elevated reporting limit due to high target concentration
J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.05 (continued)
Sample Tag: MW-109S (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	10	SW8260B	12/26/12 15:37	WAT	2.1	Y
o-Xylene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.3	Y
Styrene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.89	Y
Isopropylbenzene	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.2	Y
Bromoform	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.1	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.90	Y
1,2,3-Trichloropropane	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.6	Y
n-Propylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.1	Y
Bromobenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.3	Y
1,3,5-Trimethylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.3	Y
tert-Butylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.90	Y
1,2,4-Trimethylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.1	Y
sec-Butylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.2	Y
p-Isopropyltoluene	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.0	Y
1,3-Dichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.2	Y
1,4-Dichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.1	Y
1,2-Dichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.4	Y
1,2,3-Trimethylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	0.31	Y
n-Butylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:37	WAT	1.1	Y
Hexachloroethane	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.1	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	2.3	Y
1,2,4-Trichlorobenzene	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	0.96	Y
1,2,3-Trichlorobenzene	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.0	Y
Naphthalene	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	1.1	Y
2-Methylnaphthalene	Not detected	ug/L	30	SW8260B	12/26/12 15:37	WAT	0.82	Y

Y-Elevated reporting limit due to high target concentration

Analytical Laboratory Report

Lab Sample ID: S54961.06
Sample Tag: MW-110S (12/11/12)
Collected Date/Time: 12/13/2012 14:32
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 09:10	JKB	0.02	
Metals								
Arsenic	0.004	mg/L	0.002	E200.8	12/20/12 14:28	PER	0.00026	
Barium	0.308	mg/L	0.005	E200.8	12/20/12 14:28	PER	0.00016	
Cadmium	0.0003	mg/L	0.0005	E200.8	12/20/12 14:28	PER	0.000040	b
Chromium	0.004	mg/L	0.005	E200.8	12/20/12 14:28	PER	0.00030	b
Copper	0.049	mg/L	0.004	E200.8	12/20/12 14:28	PER	0.000090	
Lead	0.016	mg/L	0.003	E200.8	12/20/12 14:28	PER	0.000020	
Mercury	0.000037	mg/L	0.0001	E245.1	12/18/12 14:09	JRT	0.000018	b
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 14:28	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:28	PER	0.000040	
Zinc	0.047	mg/L	0.005	E200.8	12/20/12 14:28	PER	0.00070	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/20/12 15:14	PL	0.27	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/20/12 15:14	PL	0.25	
Anthracene	Not detected	ug/L	5	SW8270C	12/20/12 15:14	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/20/12 15:14	PL	0.24	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/20/12 15:14	PL	0.25	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 15:14	PL	0.29	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 15:14	PL	0.25	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/20/12 15:14	PL	0.22	
Chrysene	Not detected	ug/L	1	SW8270C	12/20/12 15:14	PL	0.32	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/20/12 15:14	PL	0.26	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 15:14	PL	0.26	
Fluorene	Not detected	ug/L	5	SW8270C	12/20/12 15:14	PL	0.23	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/20/12 15:14	PL	0.29	
Naphthalene	Not detected	ug/L	5	SW8270C	12/20/12 15:14	PL	0.26	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/20/12 15:14	PL	0.23	
Pyrene	Not detected	ug/L	5	SW8270C	12/20/12 15:14	PL	0.22	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 15:14	PL	0.23	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.06 (continued)
Sample Tag: MW-110S (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 15:14	PL	0.23	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/26/12 14:52	WAT	0.50	
Acetone	2.71	ug/L	50	SW8260B	12/26/12 14:52	WAT	0.56	J
Methyl iodide	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.25	
Carbon disulfide	0.58	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.24	J
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.19	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/26/12 14:52	WAT	0.57	
2-Butanone (MEK)	0.37	ug/L	25	SW8260B	12/26/12 14:52	WAT	0.26	J
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.50	
Chloromethane	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.26	
Vinyl chloride	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.31	
Bromomethane	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.32	
Chloroethane	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.34	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.33	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.29	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.20	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.20	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.26	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	12/26/12 14:52	WAT	1.3	
Chloroform	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.21	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.38	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.28	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/26/12 14:52	WAT	0.14	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/26/12 14:52	WAT	0.29	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.20	
Benzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.20	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.16	
Trichloroethene	0.30	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.23	J
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.20	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.23	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.20	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.19	
Toluene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.25	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.25	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.28	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.20	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.20	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.24	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.30	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.17	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.24	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.26	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 14:52	WAT	0.41	
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.25	

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.06 (continued)
Sample Tag: MW-110S (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.18	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.25	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.22	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.18	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.33	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.23	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.27	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.26	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.18	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.22	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.25	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.21	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.24	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.23	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.28	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.061	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 14:52	WAT	0.22	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.21	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.47	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.19	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.20	
Naphthalene	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.21	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/26/12 14:52	WAT	0.16	

Analytical Laboratory Report

Lab Sample ID: S54961.07
Sample Tag: MW-111S (12/11/12)
Collected Date/Time: 12/13/2012 12:15
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 09:15	JKB	0.02	
Metals								
Arsenic	0.013	mg/L	0.002	E200.8	12/20/12 14:30	PER	0.00026	
Barium	0.077	mg/L	0.005	E200.8	12/20/12 14:30	PER	0.00016	
Cadmium	0.0002	mg/L	0.0005	E200.8	12/20/12 14:30	PER	0.000040	b
Chromium	0.004	mg/L	0.005	E200.8	12/20/12 14:30	PER	0.00030	b
Copper	0.005	mg/L	0.004	E200.8	12/20/12 14:30	PER	0.000090	
Lead	0.003	mg/L	0.003	E200.8	12/20/12 14:30	PER	0.000020	
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:11	JRT	0.000018	
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 14:30	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:30	PER	0.000040	
Zinc	0.014	mg/L	0.005	E200.8	12/20/12 14:30	PER	0.00070	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/20/12 14:35	PL	0.28	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/20/12 14:35	PL	0.27	
Anthracene	Not detected	ug/L	5	SW8270C	12/20/12 14:35	PL	0.32	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/20/12 14:35	PL	0.25	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/20/12 14:35	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:35	PL	0.31	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:35	PL	0.26	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/20/12 14:35	PL	0.24	
Chrysene	Not detected	ug/L	1	SW8270C	12/20/12 14:35	PL	0.34	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/20/12 14:35	PL	0.27	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:35	PL	0.28	
Fluorene	Not detected	ug/L	5	SW8270C	12/20/12 14:35	PL	0.25	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/20/12 14:35	PL	0.31	
Naphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:35	PL	0.28	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/20/12 14:35	PL	0.24	
Pyrene	Not detected	ug/L	5	SW8270C	12/20/12 14:35	PL	0.23	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:35	PL	0.25	

b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.07 (continued)
Sample Tag: MW-111S (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:35	PL	0.25	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/19/12 17:13	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/19/12 17:13	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/19/12 17:13	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/19/12 17:13	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.16	
Vinyl chloride	195	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.11	
Chloroethane	1.26	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.10	J
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.090	
1,1-Dichloroethene	10	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.10	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.076	
trans-1,2-Dichloroethene	2	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.082	
1,1-Dichloroethane	5	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.071	
cis-1,2-Dichloroethene	69	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.055	
Tetrahydrofuran	1.12	ug/L	90	SW8260B	12/19/12 17:13	WAT	0.62	JB
Chloroform	0.530	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.091	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.069	
1,1,1-Trichloroethane	0.470	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.058	J
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/19/12 17:13	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/19/12 17:13	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.12	
Benzene	0.170	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.091	J
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.10	
Trichloroethene	115	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.11	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.11	
Toluene	0.100	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.086	J
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.094	
Tetrachloroethene	0.140	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.075	J
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.081	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/19/12 17:13	WAT	0.13	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.07 (continued)
Sample Tag: MW-111S (12/11/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
o-Xylene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.092	
Styrene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:13	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.054	
2-Methylnaphthalene	0.040	ug/L	5	SW8260B	12/19/12 17:13	WAT	0.035	JB

J-Estimated value less than reporting limit, but greater than MDL B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.08
Sample Tag: DUP-1 (12/13/12)
Collected Date/Time: 12/13/2012 00:01
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 09:20	JKB	0.02	H
Metals								
Arsenic	0.055	mg/L	0.002	E200.8	12/20/12 14:33	PER	0.00026	
Barium	0.602	mg/L	0.005	E200.8	12/20/12 14:33	PER	0.00016	
Cadmium	Not detected	mg/L	0.0005	E200.8	12/20/12 14:33	PER	0.000040	
Chromium	Not detected	mg/L	0.005	E200.8	12/20/12 14:33	PER	0.00030	
Copper	Not detected	mg/L	0.004	E200.8	12/20/12 14:33	PER	0.000090	
Lead	Not detected	mg/L	0.003	E200.8	12/20/12 14:33	PER	0.000020	
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:13	JRT	0.000018	
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 14:33	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:33	PER	0.000040	
Zinc	0.002	mg/L	0.005	E200.8	12/20/12 14:33	PER	0.00070	b
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	11	X
Acenaphthylene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	11	X
Anthracene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	13	X
Benzo(a)anthracene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	10	X
Benzo(a)pyrene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	11	X
Benzo(b)fluoranthene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	13	X
Benzo(k)fluoranthene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	11	X
Benzo(ghi)perylene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	9.5	X
Chrysene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	14	X
Dibenzo(ah)anthracene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	11	X
Fluoranthene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	11	X
Fluorene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	10	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	12	X
Naphthalene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	11	X
Phenanthrene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	9.7	X

H-Sample submitted and run outside of holding time
b-Value detected less than reporting limit, but greater than MDL
X-Elevated reporting limit due to matrix interference

Analytical Laboratory Report

Lab Sample ID: S54961.08 (continued)
Sample Tag: DUP-1 (12/13/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
Pyrene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	9.5	X
2-Methylnaphthalene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	10.0	X
1-Methylnaphthalene	Not detected	ug/L	45	SW8270C	12/20/12 15:52	PL	10.0	X
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/26/12 15:15	WAT	0.50	
Acetone	1.67	ug/L	50	SW8260B	12/26/12 15:15	WAT	0.56	J
Methyl iodide	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.25	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.24	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.19	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/26/12 15:15	WAT	0.57	
2-Butanone (MEK)	0.66	ug/L	25	SW8260B	12/26/12 15:15	WAT	0.26	J
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.50	
Chloromethane	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.26	
Vinyl chloride	0.80	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.31	J
Bromomethane	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.32	
Chloroethane	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.34	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.33	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.29	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.20	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.20	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.26	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	12/26/12 15:15	WAT	1.3	
Chloroform	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.21	
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.38	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.28	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/26/12 15:15	WAT	0.14	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/26/12 15:15	WAT	0.29	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.20	
Benzene	0.21	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.20	J
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.16	
Trichloroethene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.23	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.20	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.23	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.20	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.19	
Toluene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.25	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.25	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.28	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.20	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.20	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.24	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.30	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.17	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.24	

X-Elevated reporting limit due to matrix interference
J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.08 (continued)
Sample Tag: DUP-1 (12/13/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.26	
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/26/12 15:15	WAT	0.41	
o-Xylene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.25	
Styrene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.18	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.25	
Bromoform	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.22	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.18	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.33	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.23	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.27	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.26	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.18	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.22	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.25	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.21	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.24	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.23	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.28	
1,2,3-Trimethylbenzene	0.130	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.061	J
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/26/12 15:15	WAT	0.22	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.21	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.47	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.19	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.20	
Naphthalene	Not detected	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.21	
2-Methylnaphthalene	0.23	ug/L	5	SW8260B	12/26/12 15:15	WAT	0.16	J

J-Estimated value less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.09
Sample Tag: DUP-2 (12/13/12)
Collected Date/Time: 12/13/2012 00:01
Matrix: Groundwater
COC Reference: 82690

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	40ml Glass	HCL	Yes	3.1	IR
1	1L Amber	None	Yes	3.1	IR
1	125ml Plastic	None	Yes	3.1	IR
1	125ml Plastic	HNO3	Yes	3.1	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	12/18/12 11:30	JRH		
Metal Digestion	Completed			3015A	12/20/12 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	12/20/12 10:00	WAT		
PNA Extraction	Completed			3510C	12/19/12 22:46	EMR		
Inorganics								
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	12/14/12 09:25	JKB	0.02	H
Metals								
Arsenic	0.015	mg/L	0.002	E200.8	12/20/12 14:35	PER	0.00026	
Barium	0.074	mg/L	0.005	E200.8	12/20/12 14:35	PER	0.00016	
Cadmium	Not detected	mg/L	0.0005	E200.8	12/20/12 14:35	PER	0.000040	
Chromium	0.002	mg/L	0.005	E200.8	12/20/12 14:35	PER	0.00030	b
Copper	0.003	mg/L	0.004	E200.8	12/20/12 14:35	PER	0.000090	b
Lead	0.002	mg/L	0.003	E200.8	12/20/12 14:35	PER	0.000020	b
Mercury	Not detected	mg/L	0.0001	E245.1	12/18/12 14:15	JRT	0.000018	
Selenium	Not detected	mg/L	0.005	E200.8	12/20/12 14:35	PER	0.00076	
Silver	Not detected	mg/L	0.0002	E200.8	12/20/12 14:35	PER	0.000040	
Zinc	0.006	mg/L	0.005	E200.8	12/20/12 14:35	PER	0.00070	
Organics - Semi-Volatiles								
Polynuclear Aromatic Hydrocarbon								
Acenaphthene	Not detected	ug/L	5	SW8270C	12/20/12 14:54	PL	0.29	
Acenaphthylene	Not detected	ug/L	5	SW8270C	12/20/12 14:54	PL	0.27	
Anthracene	Not detected	ug/L	5	SW8270C	12/20/12 14:54	PL	0.32	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	12/20/12 14:54	PL	0.26	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	12/20/12 14:54	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:54	PL	0.31	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:54	PL	0.27	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	12/20/12 14:54	PL	0.24	
Chrysene	Not detected	ug/L	1	SW8270C	12/20/12 14:54	PL	0.34	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	12/20/12 14:54	PL	0.28	
Fluoranthene	Not detected	ug/L	1	SW8270C	12/20/12 14:54	PL	0.28	
Fluorene	Not detected	ug/L	5	SW8270C	12/20/12 14:54	PL	0.25	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	12/20/12 14:54	PL	0.31	
Naphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:54	PL	0.28	
Phenanthrene	Not detected	ug/L	2	SW8270C	12/20/12 14:54	PL	0.24	
Pyrene	Not detected	ug/L	5	SW8270C	12/20/12 14:54	PL	0.24	

H-Sample submitted and run outside of holding time
b-Value detected less than reporting limit, but greater than MDL

Analytical Laboratory Report

Lab Sample ID: S54961.09 (continued)
Sample Tag: DUP-2 (12/13/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (continued)								
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:54	PL	0.25	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	12/20/12 14:54	PL	0.25	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	12/19/12 17:54	WAT	0.13	
Acetone	Not detected	ug/L	50	SW8260B	12/19/12 17:54	WAT	2.7	
Methyl iodide	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.13	
Carbon disulfide	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.066	
Acrylonitrile	Not detected	ug/L	2	SW8260B	12/19/12 17:54	WAT	0.15	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	12/19/12 17:54	WAT	1.7	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.096	
Chloromethane	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.16	
Vinyl chloride	188	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.10	
Bromomethane	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.11	
Chloroethane	0.97	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.10	J
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.090	
1,1-Dichloroethene	10	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.10	
Methylene chloride	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.076	
trans-1,2-Dichloroethene	2	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.082	
1,1-Dichloroethane	5	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.071	
cis-1,2-Dichloroethene	71	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.055	
Tetrahydrofuran	1.23	ug/L	90	SW8260B	12/19/12 17:54	WAT	0.62	JB
Chloroform	0.550	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.091	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.069	
1,1,1-Trichloroethane	0.460	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.058	J
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	12/19/12 17:54	WAT	0.083	
2-Hexanone	Not detected	ug/L	50	SW8260B	12/19/12 17:54	WAT	0.14	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.12	
Benzene	0.150	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.091	J
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.10	
Trichloroethene	116	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.11	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.092	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.091	
Dibromomethane	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.077	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.11	
Toluene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.086	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.079	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.094	
Tetrachloroethene	0.140	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.075	J
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.21	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.054	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.078	
Chlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.068	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.088	
Ethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.081	

J-Estimated value less than reporting limit, but greater than MDL
B-Compound also found in associated method blank

Analytical Laboratory Report

Lab Sample ID: S54961.09 (continued)
Sample Tag: DUP-2 (12/13/12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
p,m-Xylene	Not detected	ug/L	2	SW8260B	12/19/12 17:54	WAT	0.13	
o-Xylene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.092	
Styrene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.076	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.075	
Bromoform	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.082	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.081	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.13	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.088	
Bromobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.11	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.083	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.092	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.13	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.10	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.091	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.11	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.097	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.11	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.091	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	12/19/12 17:54	WAT	0.090	
Hexachloroethane	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.078	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.13	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.092	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.064	
Naphthalene	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.054	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	12/19/12 17:54	WAT	0.035	

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # 1 OF 1

82690

CHAIN OF CUSTODY RECORD

REPORT TO

CONTACT NAME: Mike Smith
COMPANY: Applied EcoSystems, Inc.
ADDRESS: 2-4300 S. Saginaw St.
CITY: Burton STATE: MI ZIP CODE: 48529
PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 128083
E-MAIL ADDRESS: ae_mds@yahoo.com QUOTE NO.:

INVOICE TO

CONTACT NAME: RACER ☐ SAME
COMPANY: Facility # 12990-11-01
ADDRESS:
CITY: STATE: ZIP CODE:
PHONE NO.: E-MAIL ADDRESS:

PROJECT NO./NAME: 11-4317-102 / Former Building 9
SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / [signature]

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER

DELIVERABLES REQUIRED ☒ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

MATRIX CODE: GW=GROUNDWATER SE=SLUDGE WW=WASTEWATER DW=DRINKING WATER S=SOIL O=OIL L=LIQUID WP=WIPE SD=SOLID A=AIR W=WASTE

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

Certifications: ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES

Project Locations: ☐ Detroit ☐ New York ☐ Other

Special Instructions

MERIT LAB NO. (FOR LAB USE ONLY)	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives: NONE	HCl	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	PNAs	10 Metals	Hex Chromium	Special Instructions
549161.01	12/13/12	10:08	MW-101S (3/08/2012)	GW	5	2	2	1					X	X	X	X	Task #1
.02		9:43	MW-102S (3/08/2012)														
.03		11:49	MW-103S (3/13/2012)														
.04		13:17	MW-108S (12/10/12)														
.05		13:47	MW-109S (12/11/12)														
.06		14:32	MW-110S (12/11/12)														
.07		12:15	MW-111S (12/11/12)														
.08		—	DUP-1 (12/13/12)														
.09		—	DUP-2 (12/13/12)														

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [signature] / Applied EcoSystems, Inc ☒ Sampler DATE: 12/13/12 TIME: 20:09
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: [signature] DATE: 14DEC12 TIME: 0800

RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS

NOTES: TEMP. ON ARRIVAL 3.1

PLEASE NOTE: SIGNING ACKNOWLEDGES ADHERENCE TO MERIT'S SAMPLE ACCEPTANCE POLICY ON REVERSE SIDE

Rev. 5.18.12