



DATA REPORT MEMORANDUM

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

FROM: Steve Luzkow, Applied *EcoSystems*, Inc.
 Mike Smith, Applied *EcoSystems*, Inc.

DATE: June 12, 2012

SUBJECT: RACER Flint West Industrial Land (#12990-11-01)
 Summary of site activities February 15, 2012 through June 12, 2012

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

1.0 INTRODUCTION

Applied *EcoSystems*, Inc. (Æ), has completed the initial site investigations at the RACER Trust Flint West Industrial Land site. 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 ACTIVITIES COMPLETED DURING REPORTING PERIOD

Site Background/Administrative Matters

- Completed research into past uses on the subject site and surrounding sites to correct information presented in the past Phase I Environmental Site Assessment (ESA) included in the Workplan;
- 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;
- Identified current and past underground utilities on the subject site;
- Conducted a metal detector survey to locate underground structures/utilities and two lost wells. Lost wells appear to be unusable 1-inch wells installed in direct push borings; and
- A site survey is in progress to provide a base map for future investigations.

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

- Completed five soil borings and collected soil samples. (Boring logs are attached). Four of the borings were completed as monitoring wells. The fifth boring was grouted with bentonite and neat cement. Soil samples were collected and analyzed. Analytical results are attached.

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

- Four monitoring wells were installed on the site at depths of 20-25 feet below grade. Well logs are attached.

Groundwater Monitoring (Task 6)

- Wells were gauged. No NAPL was encountered;
- A preliminary groundwater flow direction was determined (flow to the north/northwest);
- Wells were sampled. Analytical results are attached. Data validation is in progress and will be included in subsequent reports.

Agency Coordination, Reporting (Task 8)

- A written status report was provided to USEPA on May 4, 2012
- A telephone conference was conducted with RACER and the USEPA on May 10, 2012.

3.0 INVESTIGATION RESULTS

Æ completed background investigations in order to identify surround site ownership, utility locations, and the locations/dimensions of vacated streets. During the background investigations, the following additional information was obtained:

- A former gas station was identified to the south, possibly partially located on the site;
- A former printer was located partially on the southern portion of the site;
- Off-site USTs are or were located near the site on the former Asylum Street;
- Former manufacturing uses (paint shop, oil house) were located to the west; and
- Numerous underground utilities were identified on the site that requires investigations as potential preferential migration pathways. The utilities are primarily located in vacated streets.

Æ completed subsurface investigations, including completion/sampling of five soil borings and installation/sampling of four monitoring wells. 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 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.

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.

Sample analytical results (tabulated results and reports) are attached. Data validation information will be provided at a later date.

4.0 PROPOSED ADDITIONAL INVESTIGATIONS

Proposed additional investigations are as follows:

1. Proposed preliminary soil boring and well locations will be installed approximately as shown on the attached map. Well placement will be based on updated groundwater elevation data collected after each well installation/development/survey.
2. Borings completed during the investigation will be abandoned with bentonite in accordance with MDEQ requirements. Monitoring wells installed will also be sealed with bentonite in accordance with MDEQ requirements.
3. The wells to be abandoned/plugged will be decommission by removing the well casing/point, over drilling the borehole with 8.25" hollow-stem augers, and plugging the borehole with bentonite in accordance with MDEQ requirements.
4. Due to the lack of soil and/or groundwater impact found, the following analytical parameters will be eliminated from the analytical list: Acid fraction of the SVOC list, polychlorinated biphenyls (PCBs), phenols, cyanide. The proposed analytical lists for soil and groundwater are:

Soil: 10 MDEQ Metals including Chromium VI, VOCs (EPA 8260), PNAs (EPA 8310)

Groundwater: 10 MDEQ Metals including Chromium VI, VOCs (EPA 8260), and PNAs (EPA 8310)

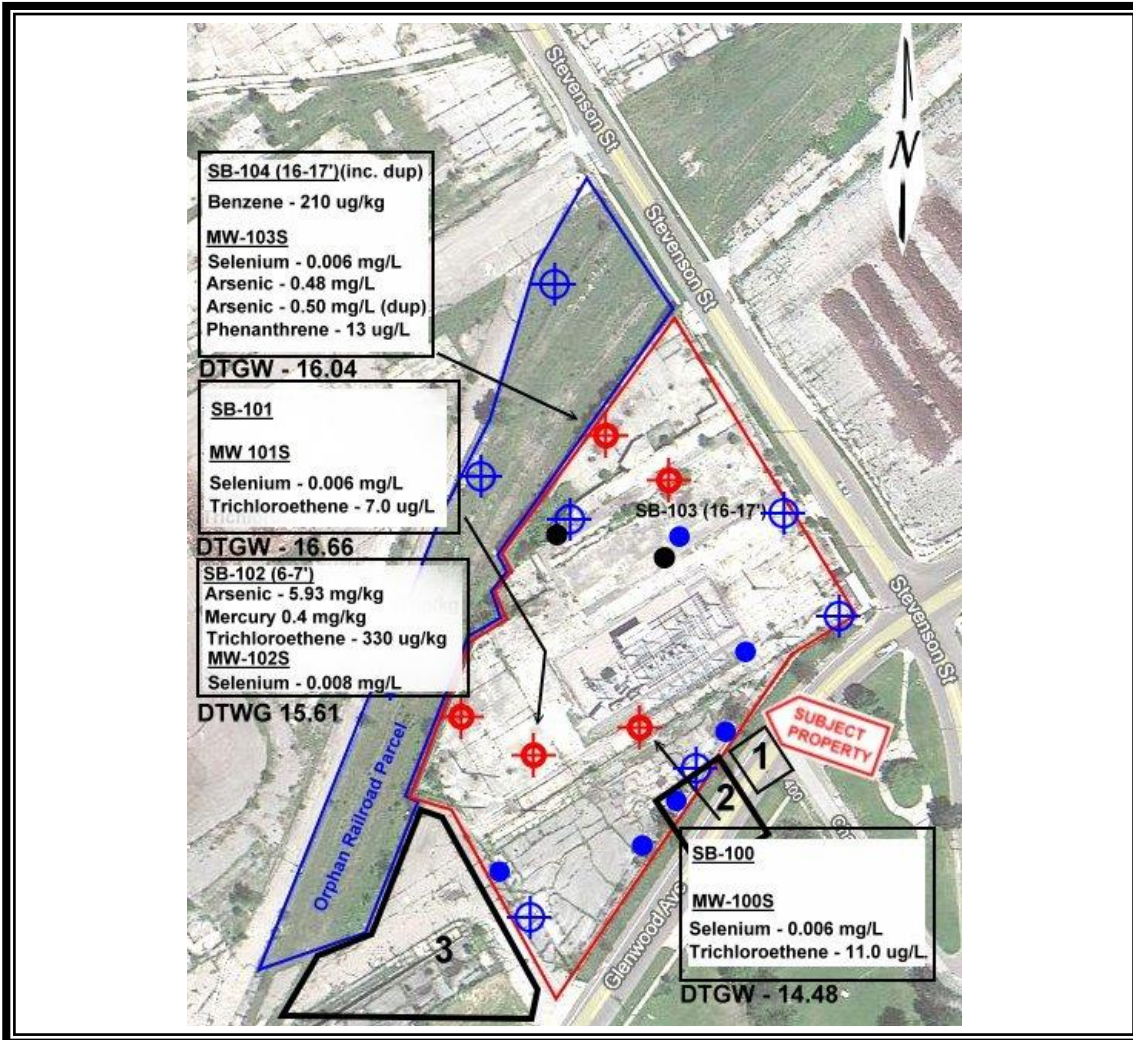
5.0 PROPOSED SCHEDULE:

Field work is expected to be completed within approximately four weeks following EPA approval of the proposed additional investigation.

A data report is expected to be completed within 12 weeks of EPA approval of the Workplan additions/modifications.

SITE DIAGRAM, PART 201 CRITERIA EXCEEDANCES, AND PROPOSED INVESTIGATION LOCATIONS

RACER TRUST (#12990-11-01)		
Flint West Industrial Land		
Flint, Michigan		
FIGURE	PROJECT NUMBER	DATE
1	12-4317-102	(date of photograph) 2010
Source: Mapcard.com		



LEGEND		
● Proposed Soil Boring	⊕ Existing Well	3: Former Paint Shops & 2 USTs
● Proposed well to Abandon	1: Former Gas Station	DTGW: Depth to Ground-water (ft.)
⊕ Proposed Well	2: Former Printers	

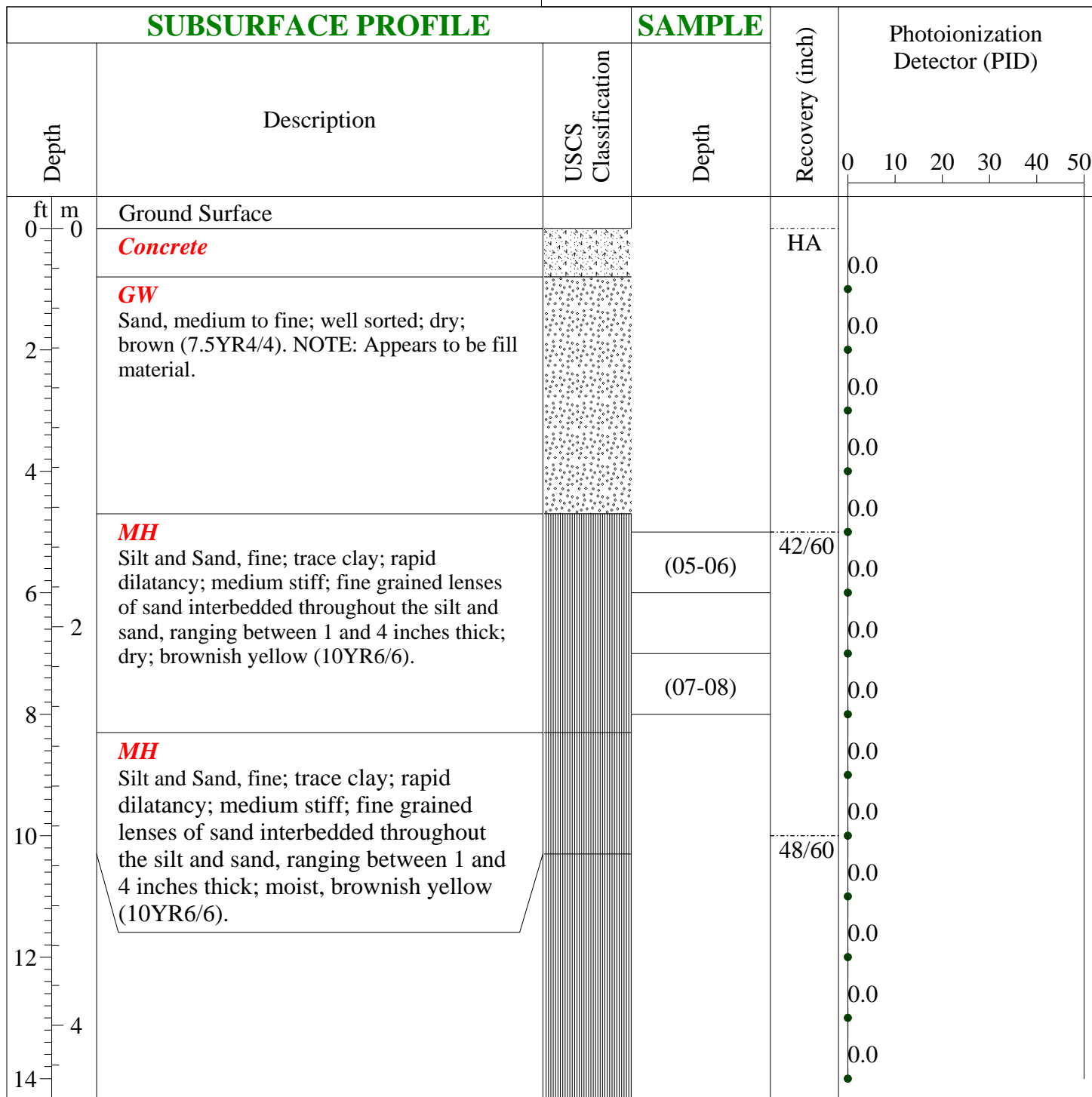
Attachment # 1: Soil Boring Logs



Applied EcoSystems
 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-100 (03/07/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/07/2012



Drill Start: 11:18
Drill End: 12:37
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

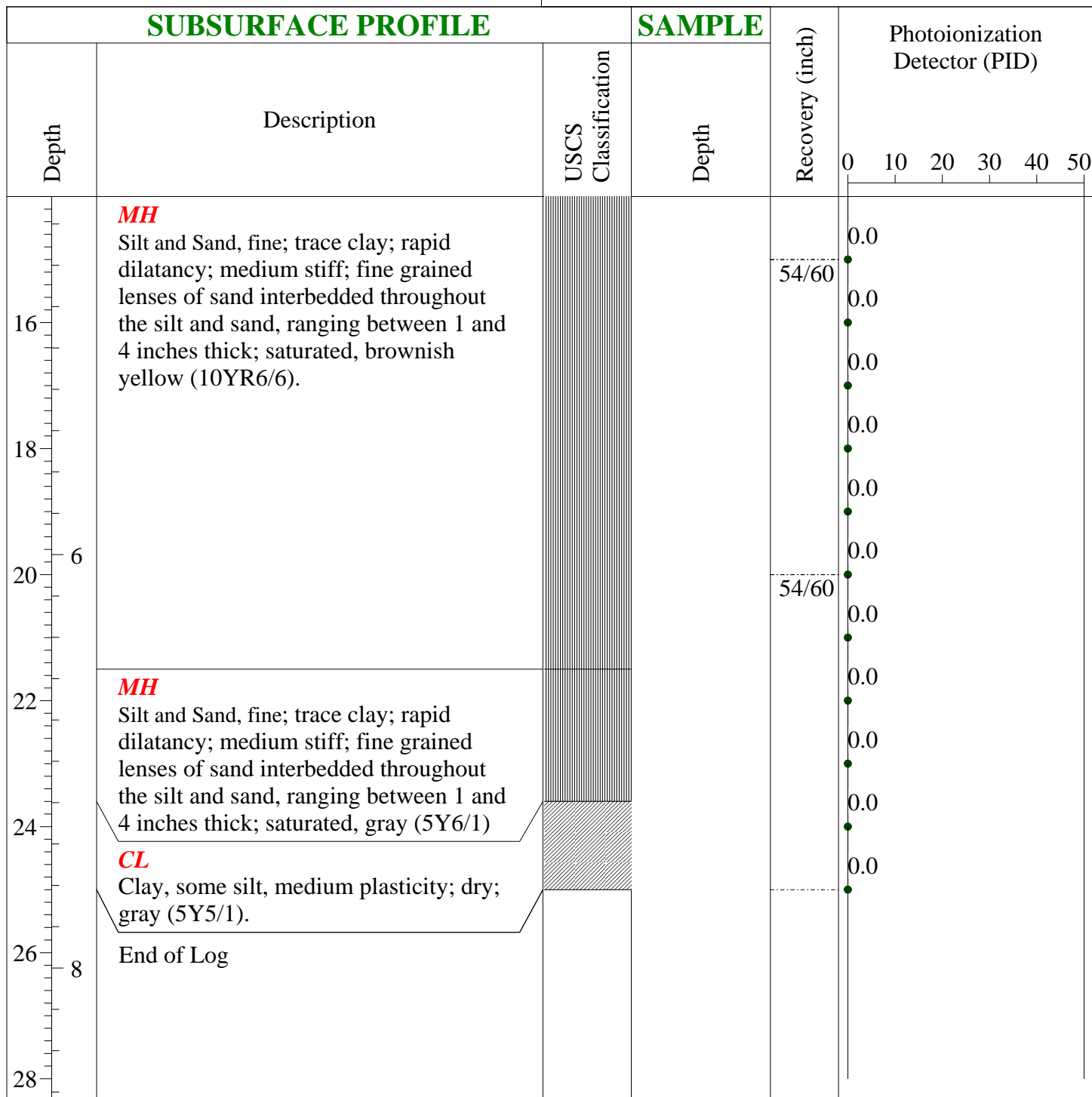
Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
Logger: Josh Adams
Sheet: 1 of 2



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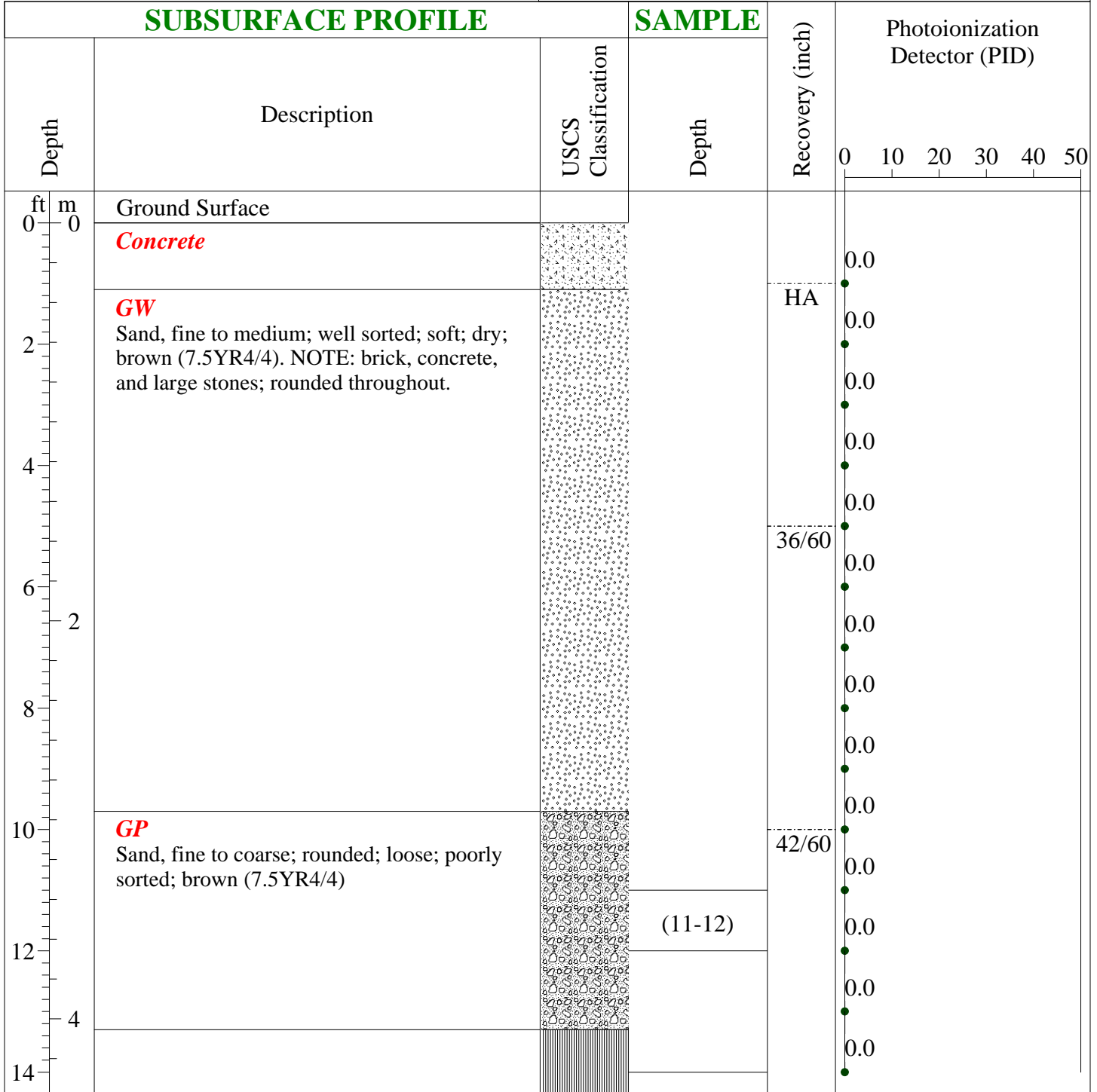
Contractor: Applied EcoSystems, Inc.
Driller: Lynn Ledebuhr
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Sheet: 2 of 2



Applied EcoSystems
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 G-4300 South Saginaw Street, Burton, Michigan 48529
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Log of Borehole: SB-101 (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012



Drill Start: 10:40
Drill End: 12:01
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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Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50
16	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; dry; brownish yellow (10YR6/6).	MH	(14-15)	54/60	0.0
18	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 4 inches thick; saturated, brownish yellow (10YR6/6).				0.0
20	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1).	CL		43/48	0.0
22					0.0
24	End of Log				0.0
26					0.0
28					0.0

Drill Start: 10:40
Drill End: 12:01
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Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	
ft m	Ground Surface				
0 0	<i>Concrete</i>				0.0
	<i>MH</i> Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; fine grained lenses of sand interbedded throughout the silt and sand, ranging between 1 and 2 inches thick; dry; brownish yellow (10YR6/6).			HA	0.0
2					0.0
					0.0
4					0.0
					0.0
6			(06-07)		0.0
					0.0
8					0.0
					0.0
10					0.0
					0.0
12			(12-13)		0.0
					0.0
14					0.0

Drill Start: 13:58
Drill End: 15:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

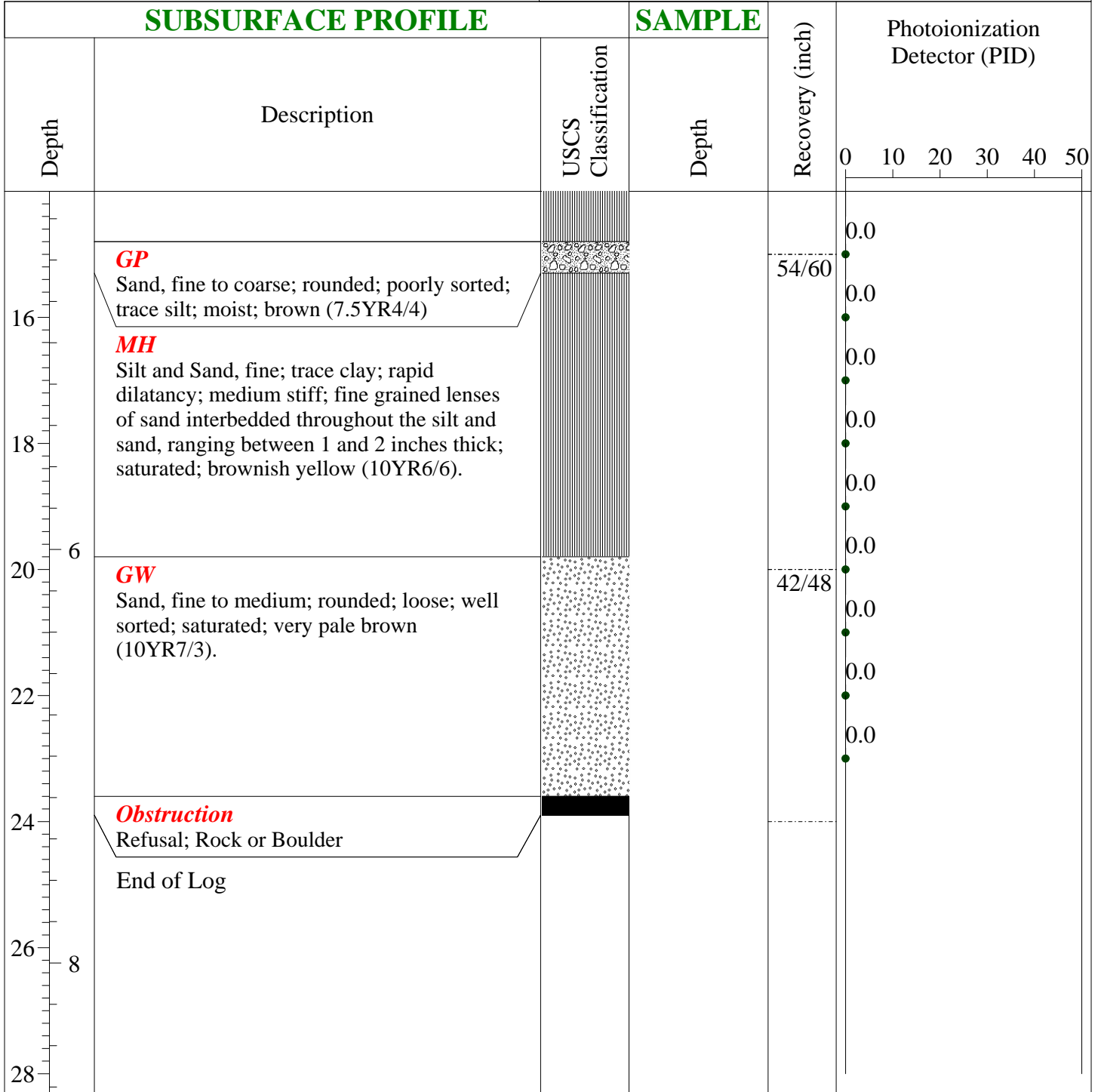
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Drill End: 15:18
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Log of Borehole: SB-103 (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50
0	Ground Surface				
	<i>Concrete</i>				
2	<i>GP</i> Sand, fine to coarse; rounded; poorly sorted; trace silt; dry; brown (7.5YR4/4). NOTE: brick, concrete, and large stones throughout.			HA	0.0
6	<i>MH</i> Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; gray (5Y5/1).			6/60	0.0
10	<i>MH</i> Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; discolored/black (5Y2.5/1).		(09-10)	48/60	0.0
12			(12-13)		0.0
14					0.0

Drill Start: 16:06
Drill End: 16:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

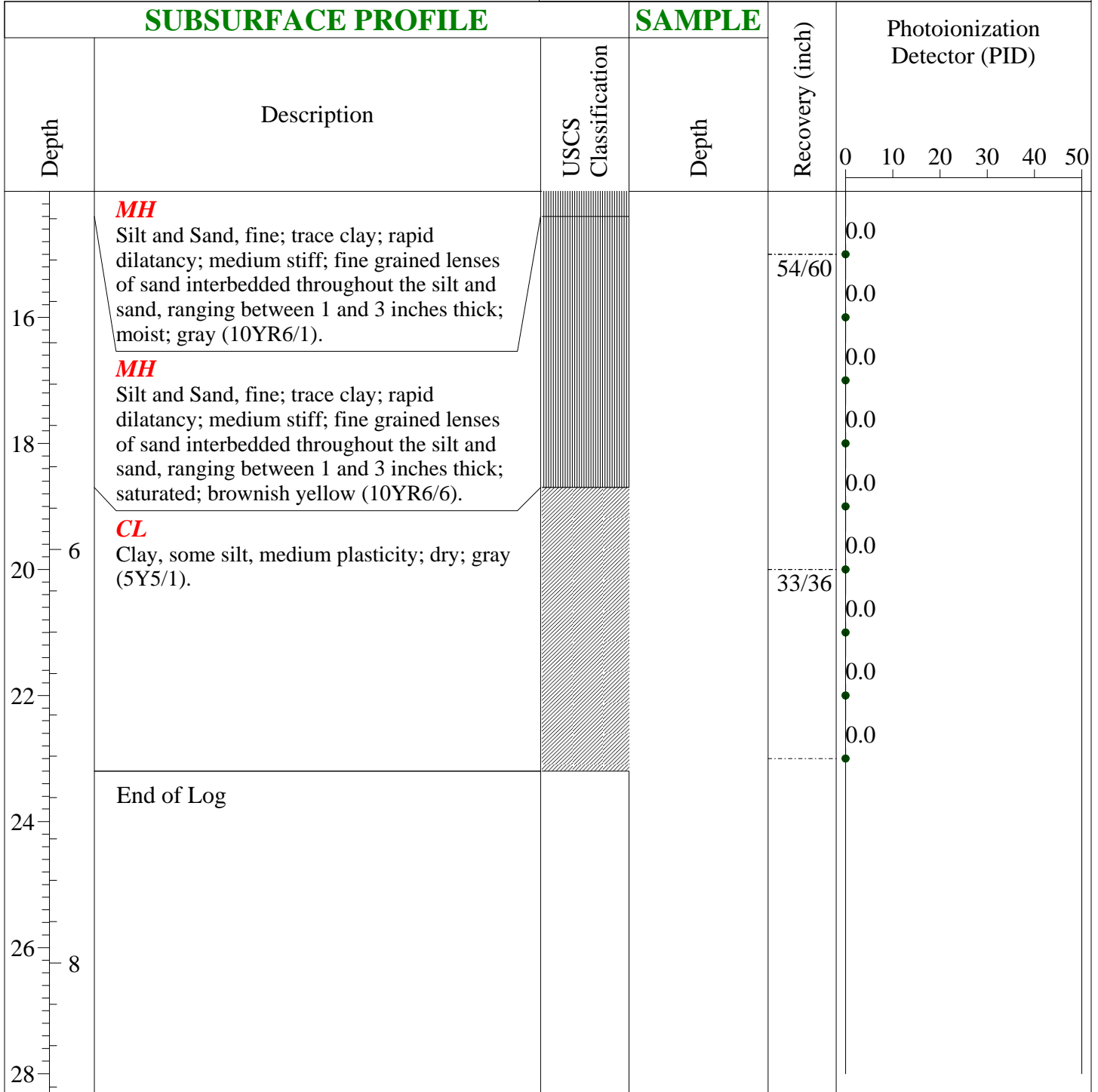
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Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012



Drill Start: 16:06
Drill End: 16:51
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

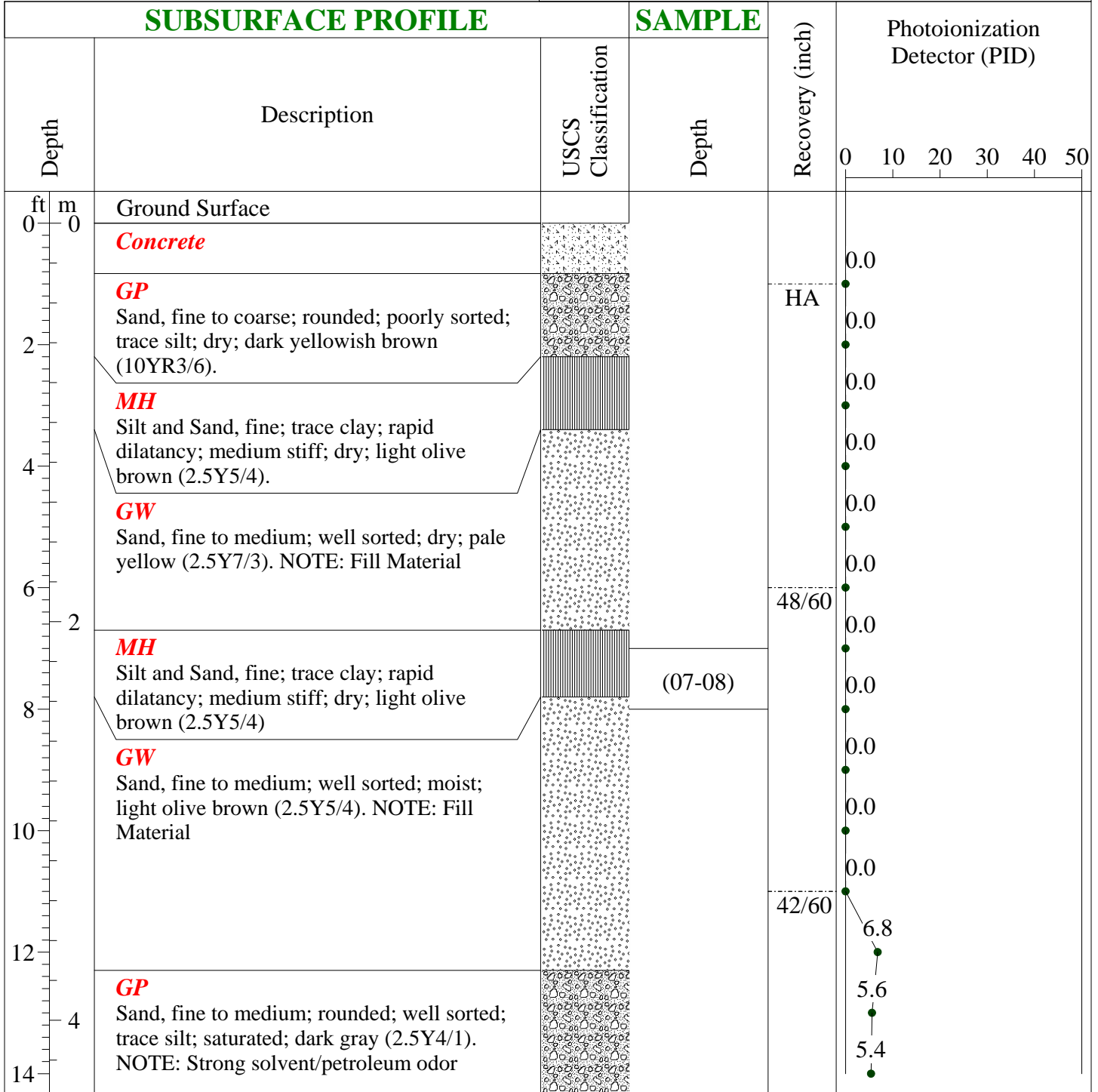
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 G-4300 South Saginaw Street, Burton, Michigan 48529
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Log of Borehole: SB-104 (03/13/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/13/2012



Drill Start: 12:15
Drill End: 14:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

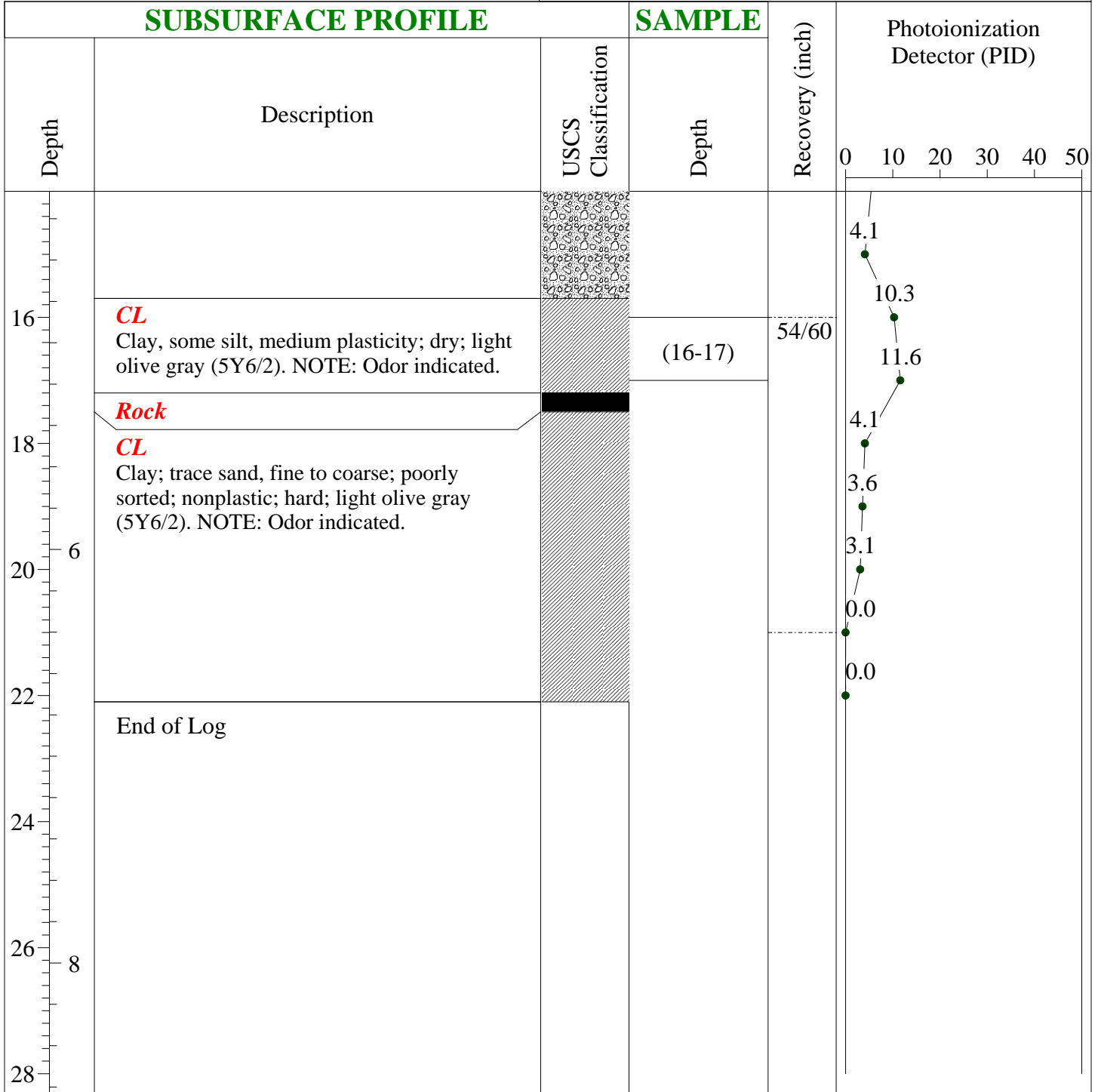
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Logger: Josh Adams
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Log of Borehole: SB-104 (03/13/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/13/2012



Drill Start: 12:15
Drill End: 14:18
Drill Method: Geoprobe 6600 - Direct Push
Diameter: 2-inch

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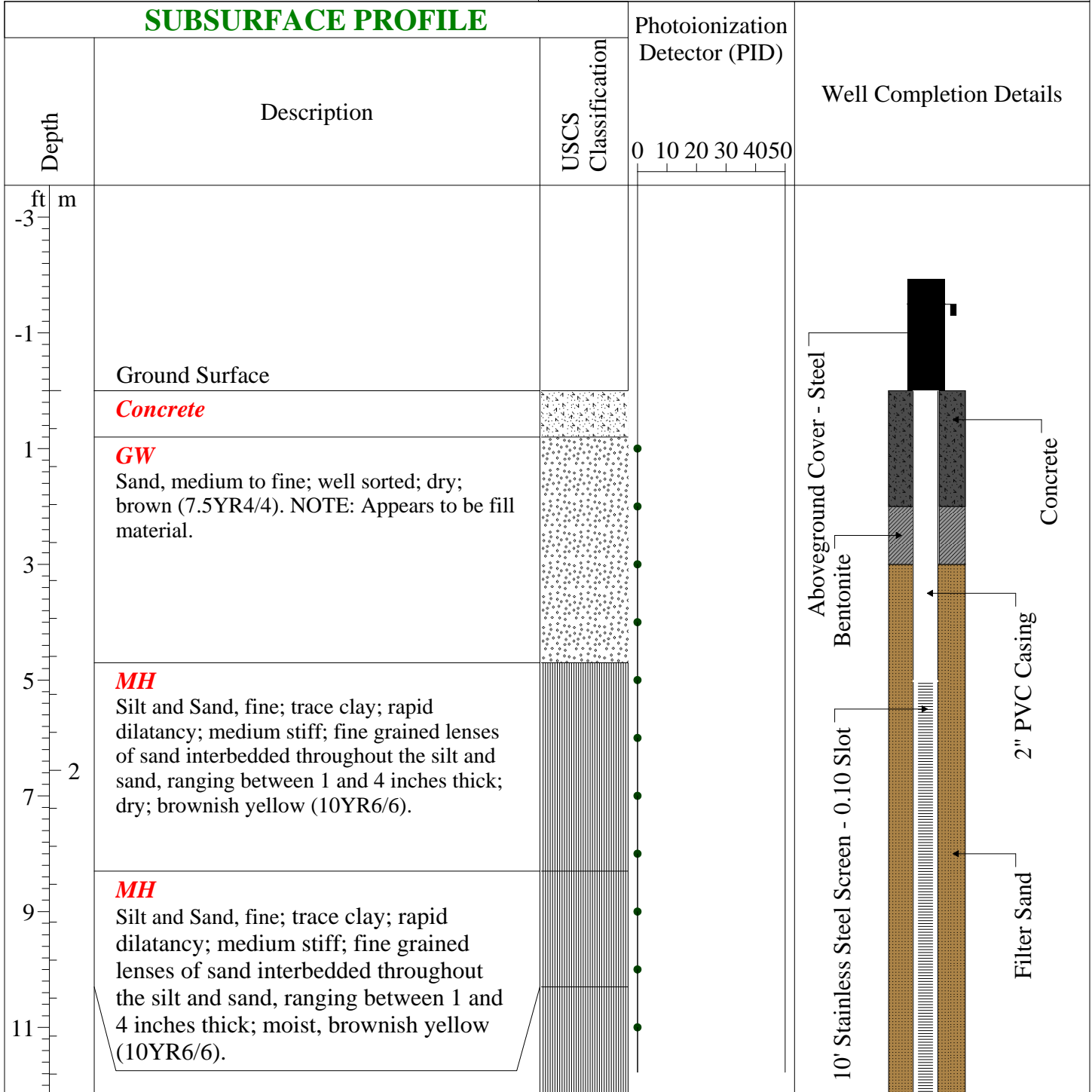
Attachment # 2: Monitoring Well Construction Logs



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Log of Borehole: MW-100S (03/07/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/07/2012



Drill Start: 12:43
Drill End: 15:36
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

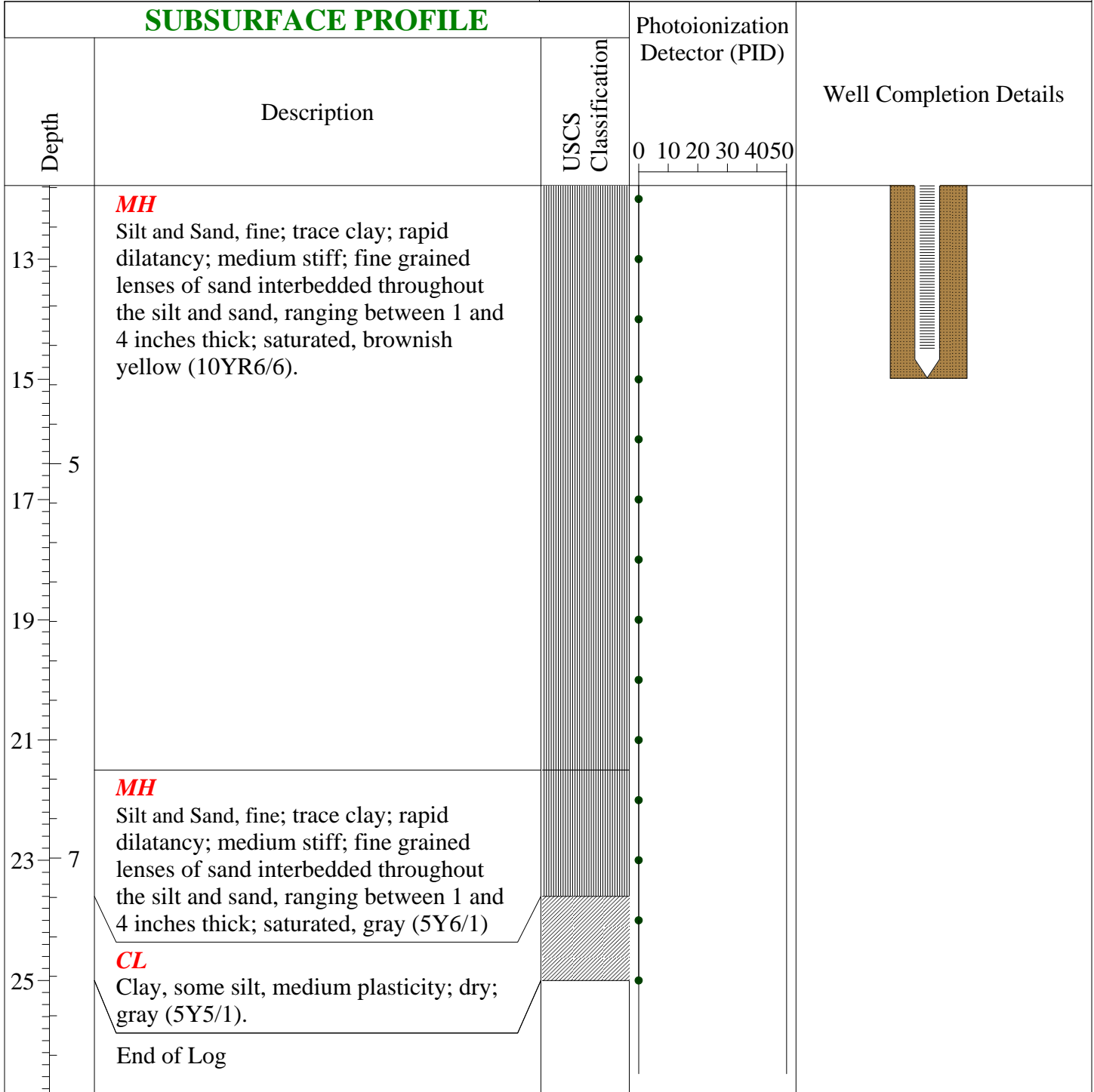
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Log of Borehole: MW-100S (03/07/2012)

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City: Flint, Michigan
Drill Date: 03/07/2012



Drill Start: 12:43
Drill End: 15:36
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

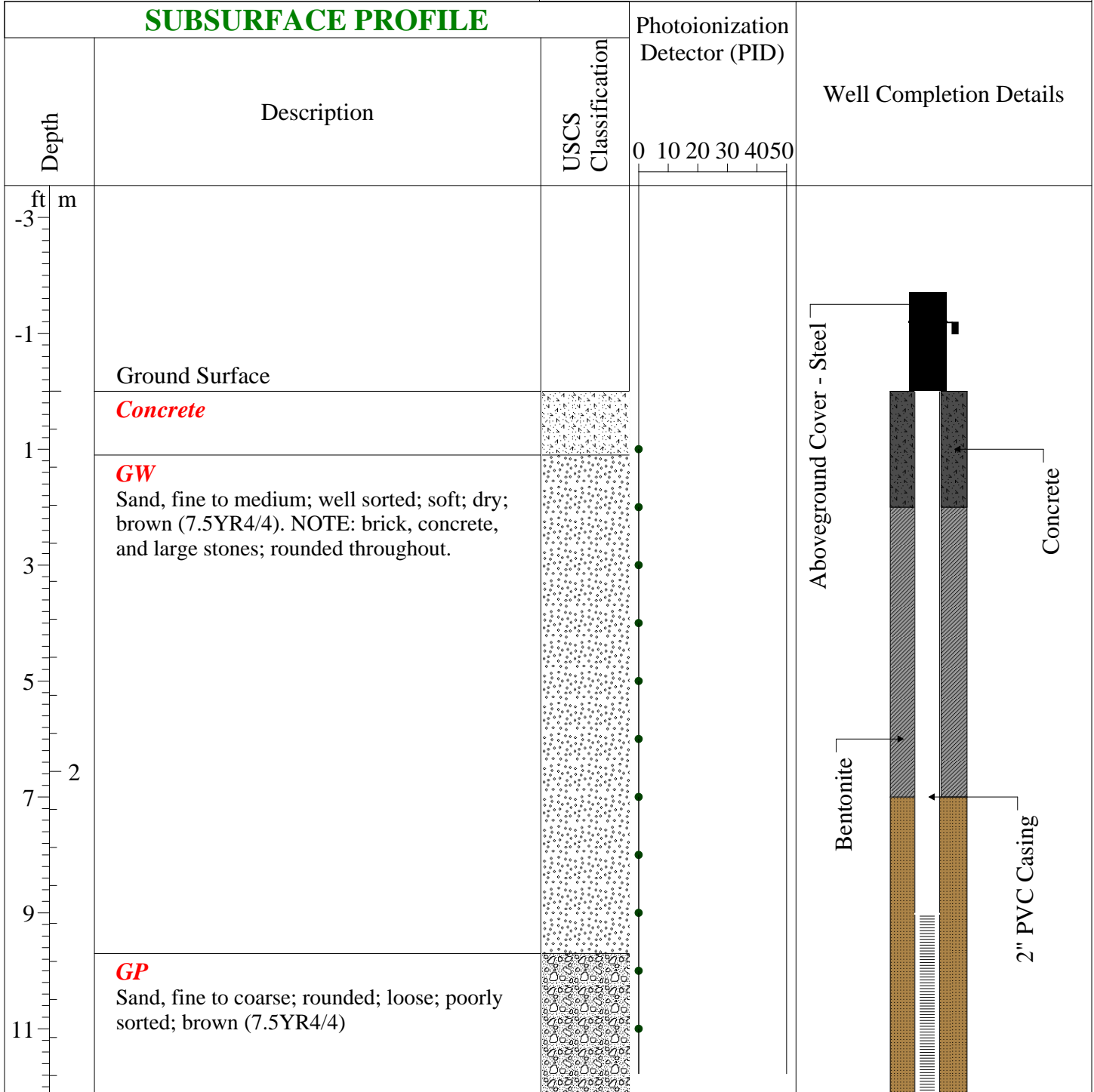
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Log of Borehole: MW-101S (03/08/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012



Drill Start: 12:12
Drill End: 13:31
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

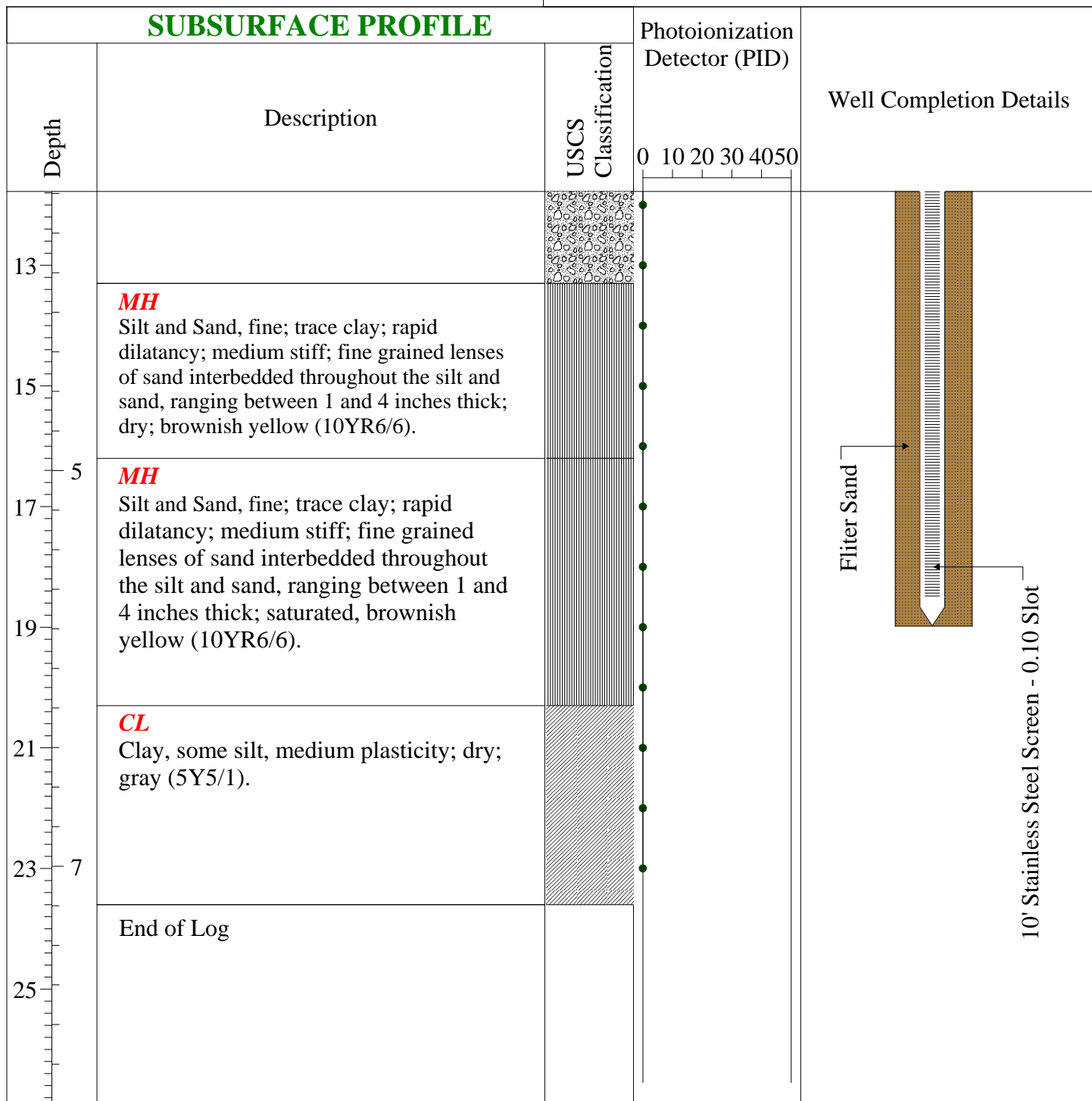
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Drill End: 13:31
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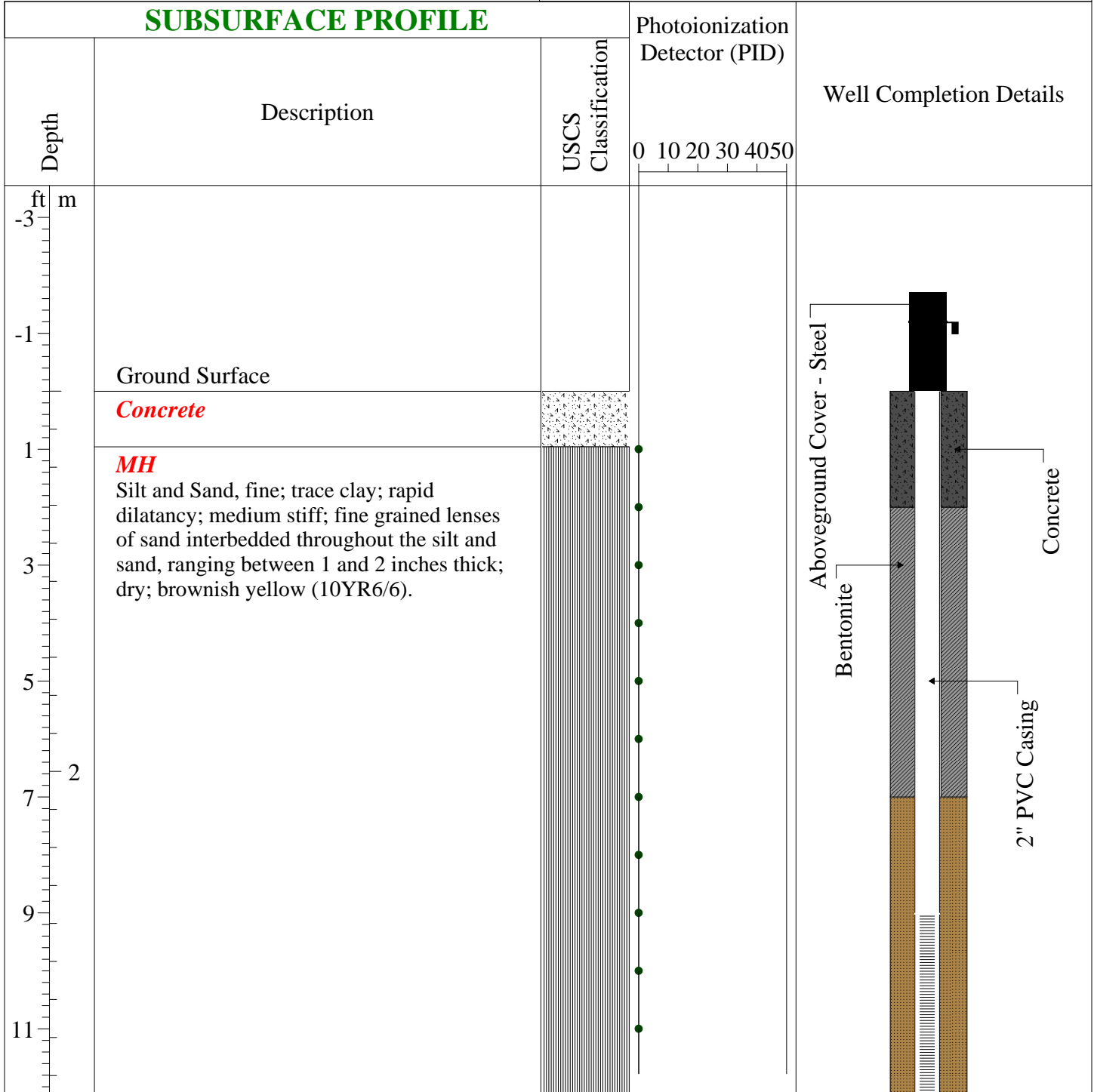
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Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/08/2012



Drill Start: 15:20
Drill End: 15:48
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

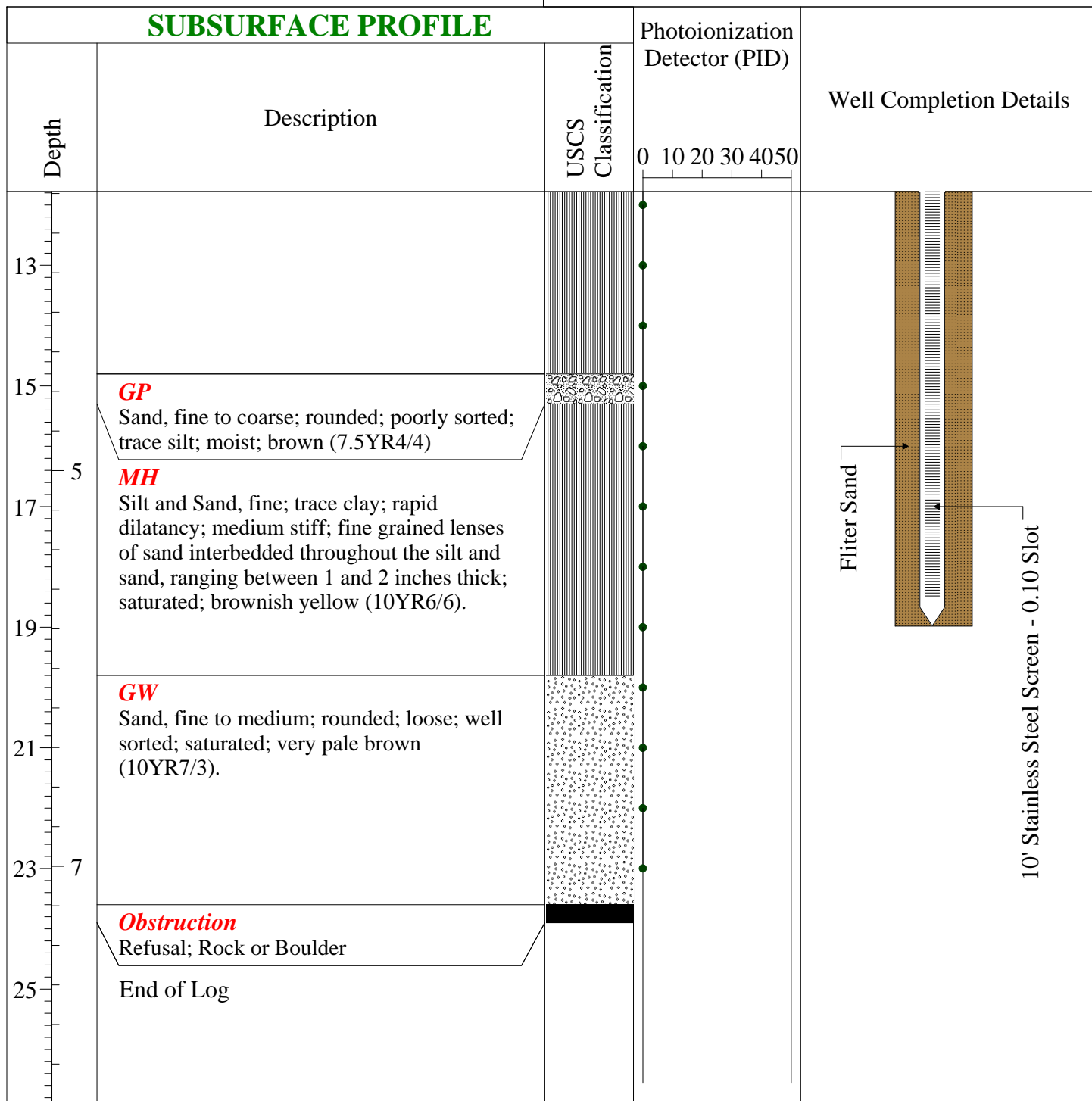
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Drill End: 15:48
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

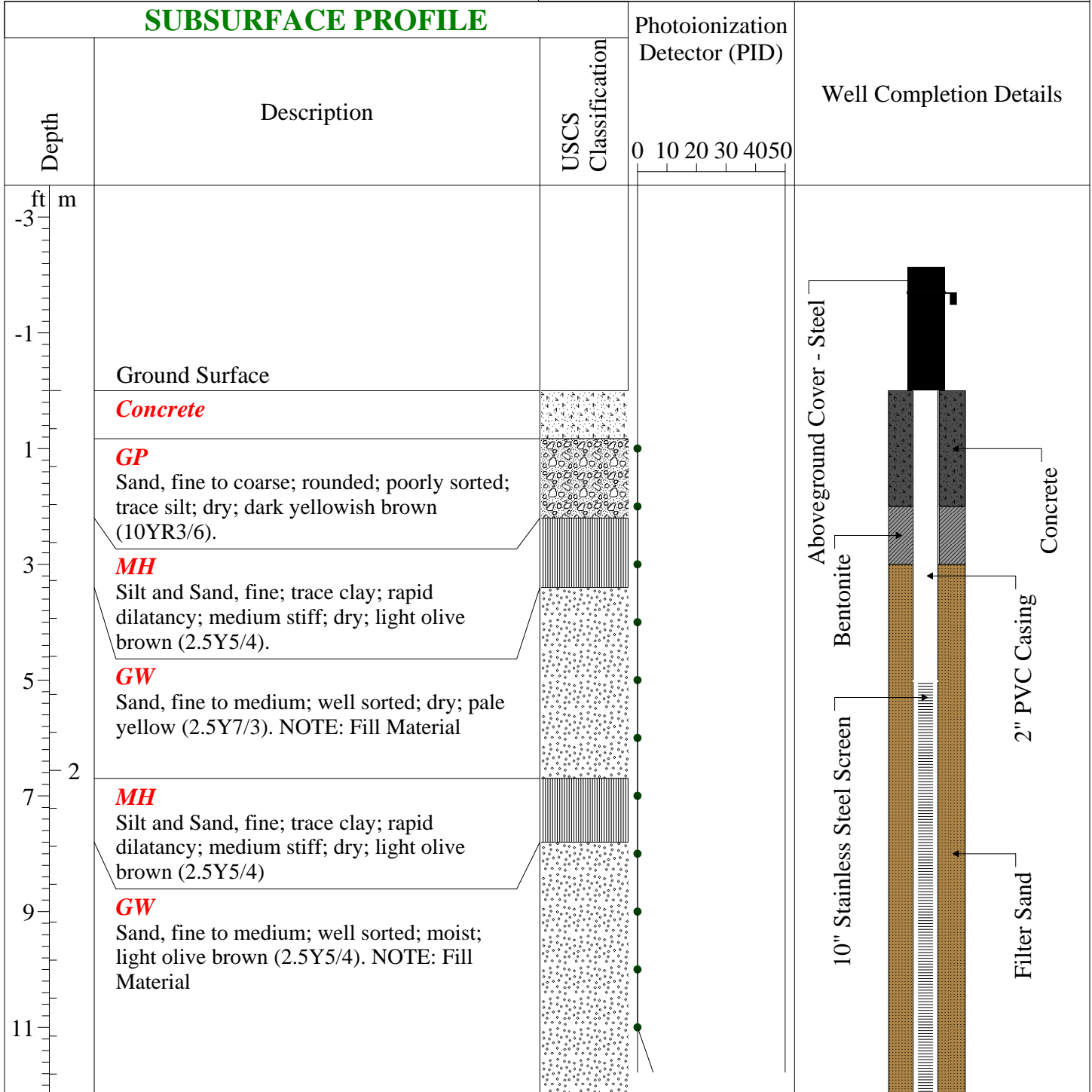
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Log of Borehole: MW-103S (03/13/2012)

Project Number: 11-4317-102
Project Name: 100-12990-0012 (Former Building 9)
Address: Delphi - Flint West Facility
City: Flint, Michigan
Drill Date: 03/13/2012



Drill Start: 14:25
Drill End: 15:50
Drill Method: Geoprobe 6600 - Hollow Stem Augers
Diameter: 4.25-inch ID

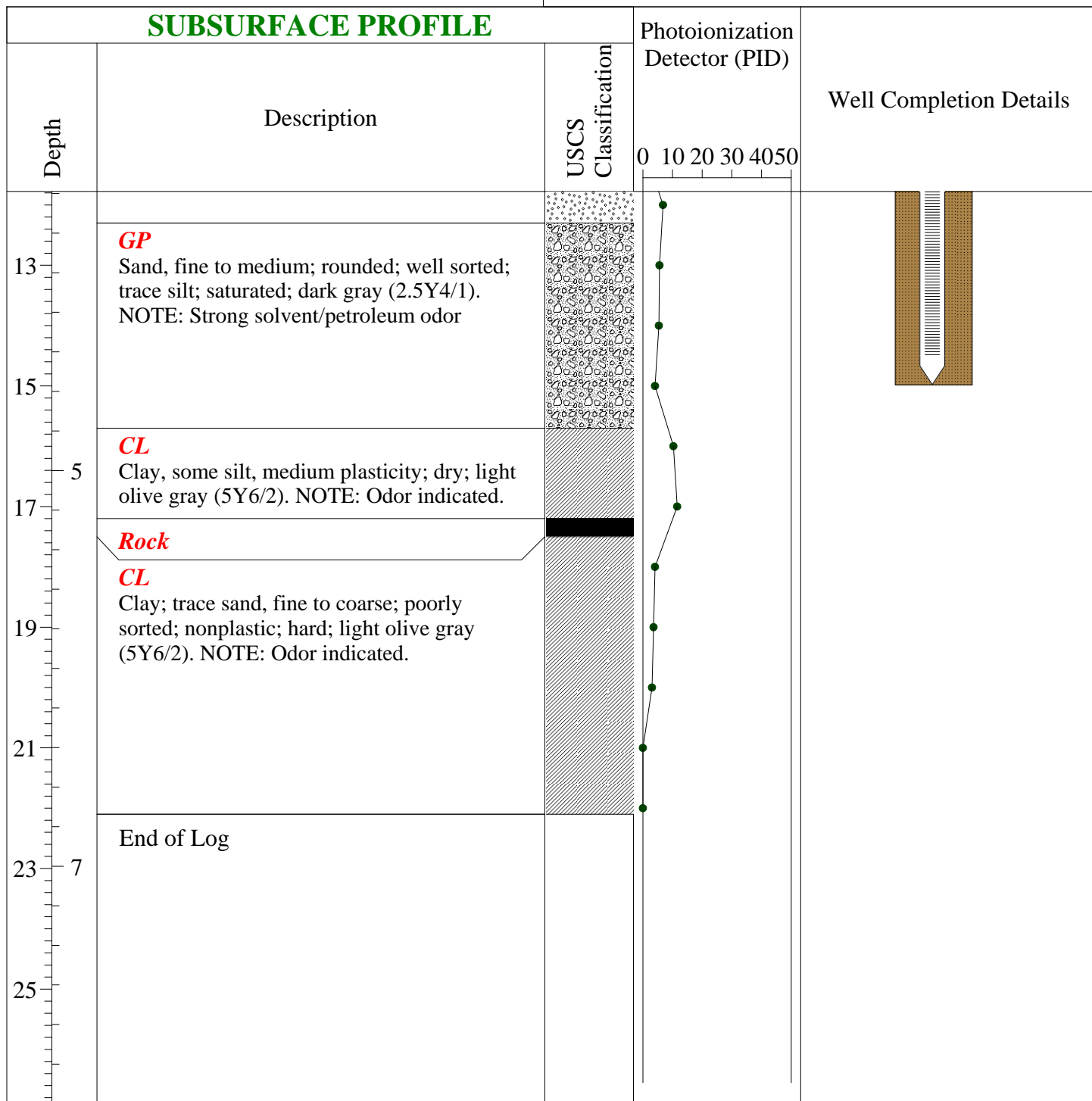
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Diameter: 4.25-inch ID

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

Attachment # 3: Soil and Groundwater Analytical Tables



Soil Analytical Tables
Sampling Event - March 7 and 8, 2012

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-100 (03/07/2012) (05-06)	SB-100 (03/07/2012) (07-08)	SB-101 (03/08/2012) (11-12)	SB-101 (03/08/2012) (14-15)	SB-102 (03/08/2012) (06-07)	SB-102 (03/08/2012) (12-13)							
Date Collected	3/7/2012	3/7/2012	3/8/2012	3/8/2012	3/8/2012	3/8/2012							
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab							
INORGANICS													
Date Analyzed	3/12-14/2012	3/12-14/2012	3/12-14/2012	3/12-14/2012	3/12-14/2012								
Analytical Method Number	Multiple	Multiple	Multiple	Multiple	Multiple								
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chromium VI	18540-29-9	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Cyanide	57-12-5	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15	ND	0.15
METALS													
Date Analyzed	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012							
Metal Digestion	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012							
Analytical Method Number	6020, 7471A	6020, 7471A	6020, 7471A	6020, 7471A	6020, 7471A	6020, 7471A							
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	1.15	0.10	1.64	0.10	0.43	0.10	1.14	0.10	1.58	0.10	0.39	0.10
Barium	7440-39-3	37.90	1.00	37.10	1.00	4.02	1.00	38.60	1.00	26.10	1.00	6.90	1.00
Cadmium	7440-43-9	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20
Chromium	7440-47-3	2.90	0.50	3.19	0.50	0.69	0.50	4.27	0.50	16.40	0.50	1.20	0.50
Copper	7440-50-8	3.05	0.50	4.36	0.50	0.52	0.50	6.01	0.50	21.10	0.50	0.71	0.50
Lead	7439-92-1	6.29	0.30	6.08	0.30	0.95	0.30	7.11	0.30	15.20	0.30	1.18	0.30
Mercury	7439-97-6	ND	0.05	ND	0.05	ND	0.05	ND	0.05	0.058	0.05	ND	0.05
Selenium	7782-49-2	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50
Silver	7440-22-4	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20	ND	0.20
Zinc	7440-66-6	10.10	1.00	15.00	1.00	1.77	1.00	15.80	1.00	27.10	1.00	2.19	1.00
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES													
Date Analyzed	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012							
Date Extracted	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012	3/12/2012							
Analytical Method Number	8082A	8082A	8082A	8082A	8082A	8082A							
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1242	53469-21-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1221	11104-28-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1232	11141-16-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1248	12672-29-6	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1254	11097-69-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
PCB-1260	11096-82-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected



SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	SB-100 (03/07/2012) (05-06)	SB-100 (03/07/2012) (07-08)	SB-101 (03/08/2012) (11-12)	SB-101 (03/08/2012) (14-15)	SB-102 (03/08/2012) (06-07)	SB-102 (03/08/2012) (12-13)
Date Collected	3/7/2012	3/7/2012	3/8/2012	3/8/2012	3/8/2012	3/8/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)

Date Analyzed		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Acenaphthylene	208-96-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Anthracene	120-12-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(a)anthracene	56-55-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(b)fluoranthene	205-99-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(k)fluoranthene	207-08-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(ghi)perylene	191-24-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo(a)pyrene	50-32-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroethoxy)methane	111-91-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroethyl)ether	111-44-4	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroisopropyl)ether	108-60-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Ethylhexyl)phthalate	117-81-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Bromophenyl phenyl ether	101-55-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Butyl benzyl phthalate	85-60-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Chloroaniline	106-47-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Chloronaphthalene	91-58-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Chloro-3-methylphenol	59-50-7	ND	280	ND	280	ND	280	ND	280	ND	280	ND	280
2-Chlorophenol	95-57-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Chlorophenyl phenyl ether	7005-72-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Chrysene	218-01-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
p,m-Cresol	3/4-Cresol	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
o-Cresol	95-48-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Dibenzo(ah)anthracene	53-70-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Dibenzofuran	132-64-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
di-n-Butyl phthalate	84-74-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,2-Dichlorobenzene	95-50-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,3-Dichlorobenzene	541-73-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,4-Dichlorobenzene	106-46-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
3,3-Dichlorobenzidine	91-94-1	ND	2,000	ND	2,000	ND	2,000	ND	2,000	ND	2,000	ND	2,000

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
 Stevenson Street and Glenwood Avenue
 Flint, Michigan

Sample Identification	SB-100 (03/07/2012) (05-06)	SB-100 (03/07/2012) (07-08)	SB-101 (03/08/2012) (11-12)	SB-101 (03/08/2012) (14-15)	SB-102 (03/08/2012) (06-07)	SB-102 (03/08/2012) (12-13)
Date Collected	3/7/2012	3/7/2012	3/8/2012	3/8/2012	3/8/2012	3/8/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Diethyl phthalate	84-66-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2,4-Dimethylphenol	105-67-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Dimethyl phthalate	131-11-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4,6-Dinitro-2-methylphenol	534-52-1	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
2,4-Dinitrophenol	51-28-5	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
2,4-Dinitrotoluene	121-14-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2,6-Dinitrotoluene	606-20-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,2-Diphenylhydrazine	122-66-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
di-n-Octyl phthalate	117-84-0	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Fluoranthene	206-44-0	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Fluorene	86-73-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Hexachlorobenzene	118-74-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Hexachlorobutadiene	87-68-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Hexachlorocyclopentadiene	77-47-4	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Hexachloroethane	67-72-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Isophorone	78-59-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Methylnaphthalene	91-57-6	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Naphthalene	91-20-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Nitroaniline	88-74-4	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
3-Nitroaniline	99-09-2	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
4-Nitroaniline	100-01-6	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
Nitrobenzene	98-95-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Nitrophenol	88-75-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Nitrophenol	100-02-7	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830	ND	830
N-Nitrosodiphenylamine	86-30-6	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Pentachlorophenol	87-86-5	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330

Notes:
 Results in parts per billion
 NA = Not Analyzed
 ND = Not Detected

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-100 (03/07/2012) (05-06)	SB-100 (03/07/2012) (07-08)	SB-101 (03/08/2012) (11-12)	SB-101 (03/08/2012) (14-15)	SB-102 (03/08/2012) (06-07)	SB-102 (03/08/2012) (12-13)
Date Collected	3/7/2012	3/7/2012	3/8/2012	3/8/2012	3/8/2012	3/8/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Phenol	108-95-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Pyrene	129-00-0	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
1,2,4-Trichlorobenzene	120-82-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2,4,5-Trichlorophenol	95-95-4	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2,4,6-Trichlorophenol	88-06-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330

VOLATILE ORGANICS COMPOUNDS (VOCs)

Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	300	ND	300	ND	300	ND	300	ND	300	ND	200
Acetone	67-64-1	ND	2,000	ND	2,000	ND	1,000	ND	2,000	ND	1,000	ND	1,000
Methyl iodide	74-88-4	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
Carbon disulfide	75-15-0	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	300	ND	300	ND	300	ND	300	ND	300	ND	200
Acrylonitrile	107-13-1	ND	200	ND	200	ND	100	ND	200	ND	400	ND	100
2-Butanone (MEK)	78-93-3	ND	1,200	ND	1,200	ND	1,100	ND	1,200	ND	950	ND	890
Dichlorodifluoromethane	75-71-8	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
Chloromethane	74-87-3	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
Vinyl chloride	75-01-4	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Bromomethane	74-83-9	ND	300	ND	300	ND	300	ND	300	ND	300	ND	200
Chloroethane	75-00-3	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
Trichlorofluoromethane	75-69-4	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,1-Dichloroethene	75-35-4	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Methylene chloride	75-09-2	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
trans-1,2-Dichloroethene	156-60-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,1-Dichloroethane	75-34-3	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
cis-1,2-Dichloroethene	156-59-2	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Tetrahydrofuran	109-99-9	ND	2,000	ND	2,000	ND	1,000	ND	2,000	ND	1,000	ND	1,000

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected



SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	SB-100 (03/07/2012) (05-06)	SB-100 (03/07/2012) (07-08)	SB-101 (03/08/2012) (11-12)	SB-101 (03/08/2012) (14-15)	SB-102 (03/08/2012) (06-07)	SB-102 (03/08/2012) (12-13)
Date Collected	3/7/2012	3/7/2012	3/8/2012	3/8/2012	3/8/2012	3/8/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Bromochloromethane	74-97-5	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,1,1-Trichloroethane	71-55-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
4-Methyl-2-pentanone (MIBK)	10810-1	ND	4,000	ND	4,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000
2-Hexanone	591-78-6	ND	4,000	ND	4,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000
Carbon tetrachloride	56-23-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Benzene	71-43-2	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,2-Dichloroethane	107-06-2	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Trichloroethene	79-01-6	ND	80	ND	90	ND	70	ND	80	330 (D-100)	60	ND	60
1,2-Dichloropropane	78-87-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Bromodichloromethane	75-27-4	ND	200	ND	200	ND	100	ND	200	ND	100	ND	1,000
Dibromomethane	74-95-3	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
cis-1,3-Dichloropropane	10061-01-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Toluene	108-88-3	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
trans-1,3-Dichloropropane	10061-02-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,1,2-Trichloroethane	79-00-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Tetrachloroethene	127-18-4	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
trans-1,4-Dichloro-2-butene	110-57-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Dibromochloromethane	124-48-1	ND	200	ND	200	ND	700	ND	200	ND	100	ND	100
1,2-Dibromoethane	106-93-4	ND	30	ND	30	ND	30	ND	30	ND	30	ND	20
Chlorobenzene	108-90-7	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,1,1,2-Tetrachloroethane	630-20-6	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
Ethylbenzene	100-41-4	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
p,m-Xylene	No CAS #	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
o-Xylene	95-47-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Styrene	100-42-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Isopropylbenzene	98-82-8	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
Bromoform	75-25-2	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,1,2,2-Tetrachloroethane	79-34-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60

Notes:
 Results in parts per billion
 NA = Not Analyzed
 ND = Not Detected
 D = Residential Drinking Water Criterion

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-100 (03/07/2012) (05-06)	SB-100 (03/07/2012) (07-08)	SB-101 (03/08/2012) (11-12)	SB-101 (03/08/2012) (14-15)	SB-102 (03/08/2012) (06-07)	SB-102 (03/08/2012) (12-13)
Date Collected	3/7/2012	3/7/2012	3/8/2012	3/8/2012	3/8/2012	3/8/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
n-Propylbenzene	103-65-1	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
Bromobenzene	108-86-1	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,3,5-Trimethylbenzene	108-67-8	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
tert-Butylbenzene	98-06-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,2,4-Trimethylbenzene	95-63-6	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
sec-Butylbenzene	135-98-8	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
p-Isopropyltoluene	99-87-6	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,3-Dichlorobenzene	541-73-1	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,4-Dichlorobenzene	106-46-7	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,2-Dichlorobenzene	95-50-1	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
1,2,3-Trimethylbenzene	526-73-8	ND	200	ND	200	ND	100	ND	200	ND	100	ND	100
n-Butylbenzene	104-51-8	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Hexachloroethane	67-72-1	ND	500	ND	500	ND	400	ND	500	ND	400	ND	400
1,2-Dibromo-3-chloropropane	96-12-8	ND	400	ND	400	ND	400	ND	400	ND	300	ND	300
1,2,4-Trichlorobenzene	120-82-1	ND	540	ND	570	ND	480	ND	540	ND	420	ND	390
1,2,3-Trichlorobenzene	87-61-6	ND	540	ND	570	ND	480	ND	540	ND	420	ND	390
Naphthalene	91-20-3	ND	540	ND	570	ND	480	ND	540	ND	420	ND	390
2-Methylnaphthalene	91-57-6	ND	540	ND	570	ND	480	ND	540	ND	420	ND	390

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected



SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-103 (03/08/2012) (09-10)	SB-103 (03/08/2012) (12-13)	DUP-1 (03/08/2012) (SB-102)	Field Blank (03/07/2012)	Field Blank (03/08/2012)	Trip Blank (03/07/2012)							
Date Collected	3/8/2012	3/8/2012	3/8/2012	3/7/2012	3/8/2012	3/7/2012							
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab							
INORGANICS													
Date Analyzed	3/12-14/2012	3/12-14/2012	3/12-14/2012	NA	NA	NA							
Analytical Method Number	Multiple	Multiple	Multiple	NA	NA	NA							
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chromium VI	18540-29-9	ND	1	ND	1	ND	1	NA	NA	NA	NA	NA	NA
Cyanide	57-12-5	ND	0.15	ND	0.15	ND	0.15	NA	NA	NA	NA	NA	NA
METALS													
Date Analyzed	3/13/2012	3/13/2012	3/13/2012	3/13/2012	NA	NA							
Metal Digestion	3/13/2012	3/13/2012	3/13/2012	3/13/2012	NA	NA							
Analytical Method Number	6020, 7471A	6020, 7471A	6020, 7471A	6020, 7471A	NA	NA							
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	1.51	0.10	1.05	0.10	5.93 (B-5.8)	0.10	NA	NA	NA	NA	NA	NA
Barium	7440-39-3	27.90	1.00	9.98	1.00	84.40	1.00	NA	NA	NA	NA	NA	NA
Cadmium	7440-43-9	ND	0.20	ND	0.20	0.41	0.20	NA	NA	NA	NA	NA	NA
Chromium	7440-47-3	2.73	0.50	1.43	0.50	26.20	0.50	NA	NA	NA	NA	NA	NA
Copper	7440-50-8	3.94	0.50	5.41	0.50	34.50	0.50	NA	NA	NA	NA	NA	NA
Lead	7439-92-1	3.61	0.30	3.81	0.30	114.00	0.30	NA	NA	NA	NA	NA	NA
Mercury	7439-97-6	ND	0.05	ND	0.05	0.4 (B-1.3)	0.05	NA	NA	NA	NA	NA	NA
Selenium	7782-49-2	ND	0.50	ND	0.50	ND	0.50	NA	NA	NA	NA	NA	NA
Silver	7440-22-4	ND	0.20	ND	0.20	0.23	0.20	NA	NA	NA	NA	NA	NA
Zinc	7440-66-6	9.93	1.00	11.20	1.00	117.00	1.00	NA	NA	NA	NA	NA	NA
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES													
Date Analyzed	3/12/2012	3/12/2012	3/12/2012	3/12/2012	NA	NA							
Date Extracted	3/12/2012	3/12/2012	3/12/2012	3/12/2012	NA	NA							
Analytical Method Number	8082A	8082A	8082A	8082A	NA	NA							
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1242	53469-21-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1221	11104-28-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1232	11141-16-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1248	12672-29-6	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1254	11097-69-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
PCB-1260	11096-82-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA

Notes:

Results in parts per billion

B - Background (naturally-occurring) concentration

NA = Not Analyzed

ND = Not Detected



SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	SB-103 (03/08/2012) (09-10)	SB-103 (03/08/2012) (12-13)	DUP-1 (03/08/2012) (SB-102)	Field Blank (03/07/2012)	Field Blank (03/08/2012)	Trip Blank (03/07/2012)
Date Collected	3/8/2012	3/8/2012	3/8/2012	3/7/2012	3/8/2012	3/7/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)

Date Analyzed		3/13/2012		3/13/2012		3/13/2012		NA		NA		NA	
Analytical Method Number		8270C		8270C		8270C		NA		NA		NA	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Acenaphthylene	208-96-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Anthracene	120-12-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	56-55-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	205-99-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	207-08-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	191-24-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	50-32-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
bis(2-Chloroethoxy)methane	111-91-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
bis(2-Chloroethyl)ether	111-44-4	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
bis(2-Chloroisopropyl)ether	108-60-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	117-81-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	101-55-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	85-60-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Chloroaniline	106-47-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	91-58-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	59-50-7	ND	280	ND	280	ND	280	NA	NA	NA	NA	NA	NA
2-Chlorophenol	95-57-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	7005-72-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Chrysene	218-01-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
p,m-Cresol	3/4-Cresol	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
o-Cresol	95-48-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Dibenzo(ah)anthracene	53-70-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Dibenzofuran	132-64-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
di-n-Butyl phthalate	84-74-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	95-50-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	541-73-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
3,3-Dichlorobenzidine	91-94-1	ND	2,000	ND	2,000	ND	2,000	NA	NA	NA	NA	NA	NA

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected



SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	SB-103 (03/08/2012) (09-10)	SB-103 (03/08/2012) (12-13)	DUP-1 (03/08/2012) (SB-102)	Field Blank (03/07/2012)	Field Blank (03/08/2012)	Trip Blank (03/07/2012)
Date Collected	3/8/2012	3/8/2012	3/8/2012	3/7/2012	3/8/2012	3/7/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed		3/13/2012		3/13/2012		3/13/2012		NA		NA		NA	
Analytical Method Number		8270C		8270C		8270C		NA		NA		NA	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Diethyl phthalate	84-66-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	105-67-9	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	131-11-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	51-28-5	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	121-14-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2,6-Dinitrotoluene	606-20-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	122-66-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
di-n-Octyl phthalate	117-84-0	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Fluoranthene	206-44-0	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Fluorene	86-73-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	118-74-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	87-68-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	77-47-4	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Hexachloroethane	67-72-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Isophorone	78-59-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	91-57-6	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Naphthalene	91-20-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2-Nitroaniline	88-74-4	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
3-Nitroaniline	99-09-2	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
4-Nitroaniline	100-01-6	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
Nitrobenzene	98-95-3	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2-Nitrophenol	88-75-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
4-Nitrophenol	100-02-7	ND	830	ND	830	ND	830	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	86-30-6	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Pentachlorophenol	87-86-5	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-103 (03/08/2012) (09-10)	SB-103 (03/08/2012) (12-13)	DUP-1 (03/08/2012) (SB-102)	Field Blank (03/07/2012)	Field Blank (03/08/2012)	Trip Blank (03/07/2012)
Date Collected	3/8/2012	3/8/2012	3/8/2012	3/7/2012	3/8/2012	3/7/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed	3/13/2012		3/13/2012		3/13/2012		NA	NA	NA		
Analytical Method Number	8270C		8270C		8270C		NA	NA	NA		
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	ND	330	ND	330	ND	330	NA	NA	NA	NA
Phenol	108-95-2	ND	330	ND	330	ND	330	NA	NA	NA	NA
Pyrene	129-00-0	ND	330	ND	330	ND	330	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	ND	330	ND	330	ND	330	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	ND	330	ND	330	ND	330	NA	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	ND	330	ND	330	ND	330	NA	NA	NA	NA

VOLATILE ORGANICS COMPOUNDS (VOCs)

Date Analyzed	3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		
Analytical Method Number	8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	300	ND	300	ND	300	ND	200	ND	200	ND	200
Acetone	67-64-1	ND	1,000	ND	1,000	ND	1,000	ND	1,000	ND	1,000	ND	1,000
Methyl iodide	74-88-4	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Carbon disulfide	75-15-0	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	300	ND	300	ND	300	ND	200	ND	200	ND	200
Acrylonitrile	107-13-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
2-Butanone (MEK)	78-93-3	ND	1,000	ND	1,000	ND	1,000	ND	750	ND	750	ND	750
Dichlorodifluoromethane	75-71-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Chloromethane	74-87-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Vinyl chloride	75-01-4	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Bromomethane	74-83-9	ND	300	ND	300	ND	300	ND	200	ND	200	ND	200
Chloroethane	75-00-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Trichlorofluoromethane	75-69-4	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,1-Dichloroethene	75-35-4	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Methylene chloride	75-09-2	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
trans-1,2-Dichloroethene	156-60-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,1-Dichloroethane	75-34-3	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
cis-1,2-Dichloroethene	156-59-2	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Tetrahydrofuran	109-99-9	ND	1,000	ND	1,000	ND	1,000	ND	1,000	ND	1,000	ND	1,000

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected



SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	SB-103 (03/08/2012) (09-10)	SB-103 (03/08/2012) (12-13)	DUP-1 (03/08/2012) (SB-102)	Field Blank (03/07/2012)	Field Blank (03/08/2012)	Trip Blank (03/07/2012)
Date Collected	3/8/2012	3/8/2012	3/8/2012	3/7/2012	3/8/2012	3/7/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012		3/9/2012	
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035	
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Bromochloromethane	74-97-5	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,1,1-Trichloroethane	71-55-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
4-Methyl-2-pentanone (MIBK)	10810-1	ND	3,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000	ND	3,000
2-Hexanone	591-78-6	ND	3,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000	ND	3,000
Carbon tetrachloride	56-23-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Benzene	71-43-2	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,2-Dichloroethane	107-06-2	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Trichloroethene	79-01-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,2-Dichloropropane	78-87-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Bromodichloromethane	75-27-4	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Dibromomethane	74-95-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
cis-1,3-Dichloropropane	10061-01-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Toluene	108-88-3	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
trans-1,3-Dichloropropane	10061-02-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,1,2-Trichloroethane	79-00-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Tetrachloroethene	127-18-4	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
trans-1,4-Dichloro-2-butene	110-57-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Dibromochloromethane	124-48-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,2-Dibromoethane	106-93-4	ND	30	ND	30	ND	30	ND	20	ND	20	ND	20
Chlorobenzene	108-90-7	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,1,1,2-Tetrachloroethane	630-20-6	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Ethylbenzene	100-41-4	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
p,m-Xylene	No CAS #	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
o-Xylene	95-47-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Styrene	100-42-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Isopropylbenzene	98-82-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Bromoform	75-25-2	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,1,2,2-Tetrachloroethane	79-34-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-103 (03/08/2012) (09-10)	SB-103 (03/08/2012) (12-13)	DUP-1 (03/08/2012) (SB-102)	Field Blank (03/07/2012)	Field Blank (03/08/2012)	Trip Blank (03/07/2012)
Date Collected	3/8/2012	3/8/2012	3/8/2012	3/7/2012	3/8/2012	3/7/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed		3/9/2012				3/9/2012				3/9/2012			
Analytical Method Number		8260B/5035				8260B/5035				8260B/5035			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
n-Propylbenzene	103-65-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
Bromobenzene	108-86-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,3,5-Trimethylbenzene	108-67-8	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
tert-Butylbenzene	98-06-6	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,2,4-Trimethylbenzene	95-63-6	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
sec-Butylbenzene	135-98-8	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
p-Isopropyltoluene	99-87-6	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,3-Dichlorobenzene	541-73-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,4-Dichlorobenzene	106-46-7	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,2-Dichlorobenzene	95-50-1	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
1,2,3-Trimethylbenzene	526-73-8	ND	100	ND	100	ND	100	ND	100	ND	100	ND	100
n-Butylbenzene	104-51-8	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
Hexachloroethane	67-72-1	ND	400	ND	400	ND	400	ND	300	ND	300	ND	300
1,2-Dibromo-3-chloropropane	96-12-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
1,2,4-Trichlorobenzene	120-82-1	ND	450	ND	490	ND	460	ND	330	ND	330	ND	330
1,2,3-Trichlorobenzene	87-61-6	ND	450	ND	490	ND	460	ND	330	ND	330	ND	330
Naphthalene	91-20-3	ND	450	ND	490	ND	460	ND	330	ND	330	ND	330
2-Methylnaphthalene	91-57-6	ND	450	ND	490	ND	460	ND	330	ND	330	ND	330

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected



Soil Analytical Tables
Sampling Event - March 13, 2012



SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-104 (03/13/2012) (07-08)		SB-104 (03/13/2012) (16-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)				
Date Collected	3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012				
Collection Method	Grab		Grab		Grab		Grab		Grab				
INORGANICS													
Date Analyzed	3/14-20/2012		3/14-20/2012		3/14-20/2012		NA		NA				
Analytical Method Number	Multiple		Multiple		Multiple		NA		NA				
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chromium VI	18540-29-9	ND	1	ND	1	ND	1	NA	NA	NA	NA		
Cyanide	57-12-5	ND	0.15	ND	0.15	ND	0.15	NA	NA	NA	NA		
METALS													
Date Analyzed	3/19/2012		3/19/2012		3/19/2012		NA		NA				
Metal Digestion	3/19/2012		3/19/2012		3/19/2012		NA		NA				
Analytical Method Number	6020, 7471A		6020, 7471A		6020, 7471A		NA		NA				
CONSTITUENT (mg/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	0.66	0.10	2.01	0.10	1.87	0.10	NA	NA	NA	NA		
Barium	7440-39-3	6.64	1.00	31.20	1.00	36.50	1.00	NA	NA	NA	NA		
Cadmium	7440-43-9	ND	0.20	ND	0.20	ND	0.20	NA	NA	NA	NA		
Chromium	7440-47-3	0.70	0.50	5.63	0.50	7.83	0.50	NA	NA	NA	NA		
Copper	7440-50-8	2.07	0.50	9.96	0.50	14.40	0.50	NA	NA	NA	NA		
Lead	7439-92-1	1.73	0.30	6.74	0.30	7.56	0.30	NA	NA	NA	NA		
Mercury	7439-97-6	ND	0.05	ND	0.05	ND	0.05	NA	NA	NA	NA		
Selenium	7782-49-2	ND	0.50	ND	0.50	ND	0.50	NA	NA	NA	NA		
Silver	7440-22-4	ND	0.20	ND	0.20	ND	0.20	NA	NA	NA	NA		
Zinc	7440-66-6	3.21	1.00	26.50	1.00	31.60	1.00	NA	NA	NA	NA		
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES													
Date Analyzed	3/15/2012		3/15/2012		3/15/2012		NA		NA				
Date Extracted	3/15/2012		3/15/2012		3/15/2012		NA		NA				
Analytical Method Number	8082A		8082A		8082A		NA		NA				
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1242	53469-21-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1221	11104-28-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1232	11141-16-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1248	12672-29-6	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1254	11097-69-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
PCB-1260	11096-82-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

 Stevenson Street and Glenwood Avenue
 Flint, Michigan

Sample Identification	SB-104 (03/13/2012) (07-08)	SB-104 (03/13/2012) (16-17)	DUP-2 (03/13/2012) (SB-104)	Field Blank (03/13/2012)	Trip Blank (03/13/2012)	
Date Collected	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012	
Collection Method	Grab	Grab	Grab	Grab	Grab	

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)

Date Analyzed		3/19/2012		3/19/2012		3/19/2012		NA		NA			
Analytical Method Number		8270C		8270C		8270C		NA		NA			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Acenaphthylene	208-96-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Anthracene	120-12-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(a)anthracene	56-55-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(b)fluoranthene	205-99-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(k)fluoranthene	207-08-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(ghi)perylene	191-24-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Benzo(a)pyrene	50-32-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
bis(2-Chloroethoxy)methane	111-91-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
bis(2-Chloroethyl)ether	111-44-4	ND	330	ND	330	ND	330	NA	NA	NA	NA		
bis(2-Chloroisopropyl)ether	108-60-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
bis(2-Ethylhexyl)phthalate	117-81-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Bromophenyl phenyl ether	101-55-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Butyl benzyl phthalate	85-60-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Chloroaniline	106-47-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2-Chloronaphthalene	91-58-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Chloro-3-methylphenol	59-50-7	ND	280	ND	280	ND	280	NA	NA	NA	NA		
2-Chlorophenol	95-57-8	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Chlorophenyl phenyl ether	7005-72-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Chrysene	218-01-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
p,m-Cresol	3/4-Cresol	ND	330	ND	330	ND	330	NA	NA	NA	NA		
o-Cresol	95-48-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Dibenzo(ah)anthracene	53-70-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Dibenzofuran	132-64-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
di-n-Butyl phthalate	84-74-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,2-Dichlorobenzene	95-50-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,3-Dichlorobenzene	541-73-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,4-Dichlorobenzene	106-46-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
3,3-Dichlorobenzidine	91-94-1	ND	2,000	ND	2,000	ND	2,000	NA	NA	NA	NA		

 Notes:
 Results in parts per billion
 NA = Not Analyzed
 ND = Not Detected



SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	SB-104 (03/13/2012) (07-08)	SB-104 (03/13/2012) (16-17)	DUP-2 (03/13/2012) (SB-104)	Field Blank (03/13/2012)	Trip Blank (03/13/2012)	
Date Collected	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012	
Collection Method	Grab	Grab	Grab	Grab	Grab	

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed		3/19/2012		3/19/2012		3/19/2012		NA		NA			
Analytical Method Number		8270C		8270C		8270C		NA		NA			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Diethyl phthalate	84-66-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2,4-Dimethylphenol	105-67-9	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Dimethyl phthalate	131-11-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4,6-Dinitro-2-methylphenol	534-52-1	ND	830	ND	830	ND	830	NA	NA	NA	NA		
2,4-Dinitrophenol	51-28-5	ND	830	ND	830	ND	830	NA	NA	NA	NA		
2,4-Dinitrotoluene	121-14-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2,6-Dinitrotoluene	606-20-2	ND	330	ND	330	ND	330	NA	NA	NA	NA		
1,2-Diphenylhydrazine	122-66-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
di-n-Octyl phthalate	117-84-0	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Fluoranthene	206-44-0	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Fluorene	86-73-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Hexachlorobenzene	118-74-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Hexachlorobutadiene	87-68-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Hexachlorocyclopentadiene	77-47-4	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Hexachloroethane	67-72-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Isophorone	78-59-1	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2-Methylnaphthalene	91-57-6	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Naphthalene	91-20-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2-Nitroaniline	88-74-4	ND	830	ND	830	ND	830	NA	NA	NA	NA		
3-Nitroaniline	99-09-2	ND	830	ND	830	ND	830	NA	NA	NA	NA		
4-Nitroaniline	100-01-6	ND	830	ND	830	ND	830	NA	NA	NA	NA		
Nitrobenzene	98-95-3	ND	330	ND	330	ND	330	NA	NA	NA	NA		
2-Nitrophenol	88-75-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		
4-Nitrophenol	100-02-7	ND	830	ND	830	ND	830	NA	NA	NA	NA		
N-Nitrosodiphenylamine	86-30-6	ND	330	ND	330	ND	330	NA	NA	NA	NA		
N-Nitrosodi-n-propylamine	621-64-7	ND	330	ND	330	ND	330	NA	NA	NA	NA		
Pentachlorophenol	87-86-5	ND	330	ND	330	ND	330	NA	NA	NA	NA		

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-104 (03/13/2012) (07-08)	SB-104 (03/13/2012) (16-17)	DUP-2 (03/13/2012) (SB-104)	Field Blank (03/13/2012)	Trip Blank (03/13/2012)								
Date Collected	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012								
Collection Method	Grab	Grab	Grab	Grab	Grab								
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed	3/19/2012	3/19/2012	3/19/2012	NA	NA								
Analytical Method Number	8270C	8270C	8270C	NA	NA								
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Phenol	108-95-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
Pyrene	129-00-0	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	120-82-1	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	95-95-4	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	88-06-2	ND	330	ND	330	ND	330	NA	NA	NA	NA	NA	NA
VOLATILE ORGANICS COMPOUNDS (VOCs)													
Date Analyzed	3/19/2012	3/19/2012	3/19/2012	3/19/2012	3/19/2012								
Analytical Method Number	8260B/5035	8260B/5035	8260B/5035	8260B/5035	8260B/5035								
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	200	ND	300	ND	300	ND	200	ND	200	ND	200
Acetone	67-64-1	ND	1,000	ND	2,000	ND	2,000	ND	1,000	ND	1,000	ND	1,000
Methyl iodide	74-88-4	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
Carbon disulfide	75-15-0	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	200	ND	300	ND	300	ND	200	ND	200	ND	200
Acrylonitrile	107-13-1	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
2-Butanone (MEK)	78-93-3	ND	860	ND	1,200	ND	1,300	ND	750	ND	750	ND	750
Dichlorodifluoromethane	75-71-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Chloromethane	74-87-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Vinyl chloride	75-01-4	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50
Bromomethane	74-83-9	ND	200	ND	300	ND	300	ND	200	ND	200	ND	200
Chloroethane	75-00-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
Trichlorofluoromethane	75-69-4	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
1,1-Dichloroethene	75-35-4	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50
Methylene chloride	75-09-2	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
trans-1,2-Dichloroethene	156-60-5	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50
1,1-Dichloroethane	75-34-3	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50
cis-1,2-Dichloroethene	156-59-2	ND	60	120	80	130	90	ND	50	ND	50	ND	50
Tetrahydrofuran	109-99-9	ND	1,000	ND	2,000	ND	2,000	ND	1,000	ND	1,000	ND	1,000

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
 Stevenson Street and Glenwood Avenue
 Flint, Michigan

Sample Identification	SB-104 (03/13/2012) (07-08)	SB-104 (03/13/2012) (16-17)	DUP-2 (03/13/2012) (SB-104)	Field Blank (03/13/2012)	Trip Blank (03/13/2012)	
Date Collected	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012	
Collection Method	Grab	Grab	Grab	Grab	Grab	

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed		3/19/2012		3/19/2012		3/19/2012		3/19/2012		3/19/2012		3/19/2012			
Analytical Method Number		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035		8260B/5035			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Bromochloromethane	74-97-5	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100		
1,1,1-Trichloroethane	71-55-6	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
4-Methyl-2-pentanone (MIBK)	10810-1	ND	3,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000	ND	3,000		
2-Hexanone	591-78-6	ND	3,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000	ND	3,000		
Carbon tetrachloride	56-23-5	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Benzene	71-43-2	ND	60	210 (D-100)	80	210	90	ND	50	ND	50	ND	50		
1,2-Dichloroethane	107-06-2	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Trichloroethene	79-01-6	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
1,2-Dichloropropane	78-87-5	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Bromodichloromethane	75-27-4	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100		
Dibromomethane	74-95-3	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300		
cis-1,3-Dichloropropane	10061-01-5	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Toluene	108-88-3	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100		
trans-1,3-Dichloropropane	10061-02-6	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
1,1,2-Trichloroethane	79-00-5	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Tetrachloroethene	127-18-4	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
trans-1,4-Dichloro-2-butene	110-57-6	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Dibromochloromethane	124-48-1	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100		
1,2-Dibromoethane	106-93-4	ND	20	ND	30	ND	30	ND	20	ND	20	ND	20		
Chlorobenzene	108-90-7	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
1,1,1,2-Tetrachloroethane	630-20-6	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100		
Ethylbenzene	100-41-4	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
p,m-Xylene	No CAS #	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100		
o-Xylene	95-47-6	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Styrene	100-42-5	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		
Isopropylbenzene	98-82-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300		
Bromoform	75-25-2	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100		
1,1,2,2-Tetrachloroethane	79-34-5	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50		

Notes:
 Results in parts per billion
 NA = Not Analyzed
 ND = Not Detected
 D = Residential Drinking Water Criterion

SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	SB-104 (03/13/2012) (07-08)	SB-104 (03/13/2012) (16-17)	DUP-2 (03/13/2012) (SB-104)	Field Blank (03/13/2012)	Trip Blank (03/13/2012)
Date Collected	3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012
Collection Method	Grab	Grab	Grab	Grab	Grab

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed		3/19/2012				3/19/2012				3/19/2012			
Analytical Method Number		8260B/5035				8260B/5035				8260B/5035			
CONSTITUENT (ug/Kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
n-Propylbenzene	103-65-1	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
Bromobenzene	108-86-1	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
1,3,5-Trimethylbenzene	108-67-8	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
tert-Butylbenzene	98-06-6	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50
1,2,4-Trimethylbenzene	95-63-6	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
sec-Butylbenzene	135-98-8	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50
p-Isopropyltoluene	99-87-6	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
1,3-Dichlorobenzene	541-73-1	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
1,4-Dichlorobenzene	106-46-7	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
1,2-Dichlorobenzene	95-50-1	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
1,2,3-Trimethylbenzene	526-73-8	ND	100	ND	200	ND	200	ND	100	ND	100	ND	100
n-Butylbenzene	104-51-8	ND	60	ND	80	ND	90	ND	50	ND	50	ND	50
Hexachloroethane	67-72-1	ND	300	ND	500	ND	500	ND	300	ND	300	ND	300
1,2-Dibromo-3-chloropropane	96-12-8	ND	300	ND	400	ND	400	ND	300	ND	300	ND	300
1,2,4-Trichlorobenzene	120-82-1	ND	380	ND	510	ND	560	ND	330	ND	330	ND	330
1,2,3-Trichlorobenzene	87-61-6	ND	380	ND	510	ND	560	ND	330	ND	330	ND	330
Naphthalene	91-20-3	ND	380	ND	510	ND	560	ND	330	ND	330	ND	330
2-Methylnaphthalene	91-57-6	ND	380	ND	510	ND	560	ND	330	ND	330	ND	330

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected



Groundwater Analytical Tables
Sampling Event - March 26, 2012

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)
FACILITY NAME: Flint West Industrial Land (100-12990-0012)
 Stevenson Street and Glenwood Avenue
 Flint, Michigan

Sample Identification	MW-100S (03/07/2012)	MW-101S (03/08/2012)	MW-102S (03/08/2012)	MW-103S (03/13/2012)	DUP (03/26/2012) (MW-103S)	Trip Blank (03/23/2012)
Sample Depth (feet BGS)	5'-15'	9'-19'	9'-19'	5'-15'	5'-15'	NA
Date Collected	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

INORGANICS

Date Analyzed		3/27-4/2/2012		3/27-4/2/2012		3/27-4/2/2012		3/27-4/2/2012		3/27-4/2/2012		NA	
Analytical Method Number		Multiple		Multiple		Multiple		Multiple		Multiple		NA	
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Alkalinity as CaCO3	No CAS #	438.00	2.00	352.00	2.00	420.00	2.00	512.00	2.00	508.00	2.00	NA	NA
Ammonia-N	7664-41-7	ND	0.02	ND	0.02	ND	0.02	0.63	0.02	0.64	0.02	NA	NA
Chloride	16887-006	5.00	5.00	12.00	5.00	25.00	5.00	7.00	5.00	7.00	5.00	NA	NA
Chromium VI	18540-29-9	ND	0.02	ND	0.02	ND	0.02	ND	0.02	ND	0.02	NA	NA
Hardness	No CAS #	290.00	1.00	187.00	1.00	389.00	1.00	502.00	1.00	497.00	1.00	NA	NA
Nitrate-N	14797-55-8	ND	0.50	0.80	0.50	1.70	0.50	ND	0.50	ND	0.50	NA	NA
Nitrite-N	14797-65-0	19.00	0.50	ND	0.50	ND	0.50	ND	0.50	ND	0.50	NA	NA
Sulfate	14808-79-8	4.00	5.00	18.00	5.00	42.00	5.00	9.00	5.00	10.00	5.00	NA	NA
TOC	No CAS #	468.00	1.00	1.20	1.00	1.40	1.00	10.10	1.00	11.20	1.00	NA	NA
Total Dissolved Solids	No CAS #	ND	1.00	316.00	1.00	488.00	1.00	476.00	1.00	500.00	1.00	NA	NA

METALS

Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Metal Digestion		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Analytical Method Number		200.8; 245.1		200.8; 245.1		200.8; 245.1		200.8; 245.1		200.8; 245.1		NA	
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	ND	0.0020	ND	0.0020	0.002	0.0020	0.048 (D,G-.01)	0.0020	0.05 (D,G-.01)	0.0020	NA	NA
Barium	7440-39-3	0.048	0.0050	0.028	0.0050	0.065	0.0050	0.243	0.0050	0.255	0.0050	NA	NA
Cadmium	7440-43-9	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	NA	NA
Chromium	7440-47-3	ND	0.0050	ND	0.0050	0.018	0.0050	0.007	0.0050	0.006	0.0050	NA	NA
Copper	7440-50-8	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	ND	0.0040	NA	NA
Lead	7439-92-1	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	ND	0.0030	NA	NA
Mercury	7439-97-6	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	ND	0.0002	NA	NA
Selenium	7782-49-2	0.006 (G-.005)	0.0050	0.006 (G-.005)	0.0050	0.008 (G-.005)	0.0050	ND	0.0050	0.006 (G-.005)	0.0050	NA	NA
Silver	7440-22-4	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	ND	0.0005	NA	NA
Zinc	7440-66-6	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	ND	0.0050	NA	NA

POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES

Date Analyzed		3/28/2012		3/28/2012		3/28/2012		3/29/2012		3/29/2012		NA	
Date Extracted		3/27/2012		3/27/2012		3/27/2012		3/27/2012		3/27/2012		NA	
Analytical Method Number		608		608		608		608		608		NA	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1242	53469-21-9	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1221	11104-28-2	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1232	11141-16-5	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1248	12672-29-6	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1254	11097-69-1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB-1260	11096-82-5	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA
PCB, Total	1336-36-3	ND	0.1	ND	0.1	ND	0.1	ND	0.1	ND	0.1	NA	NA

Notes:

 Results in parts per billion
 NA = Not Analyzed
 ND = Not Detected

 D - Drinking Water Criterion
 G - Groundwater to Surface Water Interface Criterion

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	MW-100S (03/07/2012)	MW-101S (03/08/2012)	MW-102S (03/08/2012)	MW-103S (03/13/2012)	DUP (03/26/2012) (MW-103S)	Trip Blank (03/23/2012)
Sample Depth (feet BGS)	5'-15'	9'-19'	9'-19'	5'-15'	5'-15'	NA
Date Collected	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)

Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		NA	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Acenaphthylene	208-96-8	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Anthracene	120-12-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Benzo(a)anthracene	56-55-3	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Benzo(b)fluoranthene	205-99-2	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Benzo(k)fluoranthene	207-08-9	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Benzo(ghi)perylene	191-24-2	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Benzo(a)pyrene	50-32-8	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
bis(2-Chloroethoxy)methane	111-91-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
bis(2-Chloroethyl)ether	111-44-4	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
bis(2-Chloroisopropyl)ether	108-60-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
bis(2-Ethylhexyl)phthalate	117-81-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4-Bromophenyl phenyl ether	101-55-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Butyl benzyl phthalate	85-60-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4-Chloroaniline	106-47-8	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
2-Chloronaphthalene	91-58-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4-Chloro-3-methylphenol	59-50-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2-Chlorophenol	95-57-8	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
4-Chlorophenyl phenyl ether	7005-72-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Chrysene	218-01-9	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
p,m-Cresol	3/4-Cresol	ND	20	ND	20	ND	20	ND	26	ND	20	NA	NA
o-Cresol	95-48-7	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
Dibenzo(ah)anthracene	53-70-3	ND	2	ND	2	ND	2	ND	13	ND	2	NA	NA
Dibenzofuran	132-64-9	ND	4	ND	4	ND	4	ND	13	ND	4	NA	NA
di-n-Butyl phthalate	84-74-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
1,2-Dichlorobenzene	95-50-1	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
1,3-Dichlorobenzene	541-73-1	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
1,4-Dichlorobenzene	106-46-7	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
3,3-Dichlorobenzidine	91-94-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected



WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	MW-100S (03/07/2012)	MW-101S (03/08/2012)	MW-102S (03/08/2012)	MW-103S (03/13/2012)	DUP (03/26/2012) (MW-103S)	Trip Blank (03/23/2012)
Sample Depth (feet BGS)	5'-15'	9'-19'	9'-19'	5'-15'	5'-15'	NA
Date Collected	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		NA	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
Diethyl phthalate	84-66-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2,4-Dimethylphenol	105-67-9	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Dimethyl phthalate	131-11-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4,6-Dinitro-2-methylphenol	534-52-1	ND	20	ND	20	ND	20	ND	20	ND	20	NA	NA
2,4-Dinitrophenol	51-28-5	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
2,4-Dinitrotoluene	121-14-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2,6-Dinitrotoluene	606-20-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
1,2-Diphenylhydrazine	122-66-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
di-n-Octyl phthalate	117-84-0	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Fluoranthene	206-44-0	ND	1	ND	1	ND	1	ND	13	ND	1	NA	NA
Fluorene	86-73-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Hexachlorobenzene	118-74-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Hexachlorobutadiene	87-68-3	ND	10	ND	10	ND	10	ND	13	ND	10	NA	NA
Hexachlorocyclopentadiene	77-47-4	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Hexachloroethane	67-72-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Indeno(1,2,3-cd)pyrene	193-39-5	ND	2	ND	2	ND	2	ND	13	ND	2	NA	NA
Isophorone	78-59-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2-Methylnaphthalene	91-57-6	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Naphthalene	91-20-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2-Nitroaniline	88-74-4	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
3-Nitroaniline	99-09-2	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
4-Nitroaniline	100-01-6	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
Nitrobenzene	98-95-3	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2-Nitrophenol	88-75-5	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
4-Nitrophenol	100-02-7	ND	25	ND	25	ND	25	ND	25	ND	25	NA	NA
N-Nitrosodiphenylamine	86-30-6	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
N-Nitrosodi-n-propylamine	621-64-7	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Pentachlorophenol	87-86-5	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	MW-100S (03/07/2012)	MW-101S (03/08/2012)	MW-102S (03/08/2012)	MW-103S (03/13/2012)	DUP (03/26/2012) (MW-103S)	Trip Blank (03/23/2012)
Sample Depth (feet BGS)	5'-15'	9'-19'	9'-19'	5'-15'	5'-15'	NA
Date Collected	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		3/29/2012		NA	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		NA	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	ND	2	ND	2	ND	2	13	13	ND	2	NA	NA
Phenol	108-95-2	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
Pyrene	129-00-0	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
1,2,4-Trichlorobenzene	120-82-1	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2,4,5-Trichlorophenol	95-95-4	ND	5	ND	5	ND	5	ND	13	ND	5	NA	NA
2,4,6-Trichlorophenol	88-06-2	ND	4	ND	4	ND	4	ND	13	ND	4	NA	NA

VOLATILE ORGANICS COMPOUNDS (VOCs)

Date Analyzed		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012	
Analytical Method Number		8260B		8260B		8260B		8260B		8260B		8260B	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	10	ND	10	ND	10	ND	10	ND	10	ND	10
Acetone	67-64-1	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Methyl iodide	74-88-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Carbon disulfide	75-15-0	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Acrylonitrile	107-13-1	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
2-Butanone (MEK)	78-93-3	ND	25	ND	25	ND	25	ND	25	ND	25	ND	25
Dichlorodifluoromethane	75-71-8	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chloromethane	74-87-3	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Vinyl chloride	75-01-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromomethane	74-83-9	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Chloroethane	75-00-3	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Trichlorofluoromethane	75-69-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethene	75-35-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Methylene chloride	75-09-2	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
trans-1,2-Dichloroethene	156-60-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1-Dichloroethane	75-34-3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
cis-1,2-Dichloroethene	156-59-2	3	1	ND	1	ND	1	ND	1	ND	1	ND	1
Tetrahydrofuran	109-99-9	ND	90	ND	90	ND	90	ND	90	ND	90	ND	90

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected



WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue

Flint, Michigan

Sample Identification	MW-100S (03/07/2012)	MW-101S (03/08/2012)	MW-102S (03/08/2012)	MW-103S (03/13/2012)	DUP (03/26/2012) (MW-103S)	Trip Blank (03/23/2012)
Sample Depth (feet BGS)	5'-15'	9'-19'	9'-19'	5'-15'	5'-15'	NA
Date Collected	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012	
Analytical Method Number		8260B		8260B		8260B		8260B		8260B		8260B	
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	1	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromochloromethane	74-97-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,1-Trichloroethane	71-55-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
4-Methyl-2-pentanone (MIBK)	10810-1	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
2-Hexanone	591-78-6	ND	50	ND	50	ND	50	ND	50	ND	50	ND	50
Carbon tetrachloride	56-23-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Benzene	71-43-2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichloroethane	107-06-2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Trichloroethene	79-01-6	11 (D-5.0)	1	7 (D-5.0)	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichloropropane	78-87-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromodichloromethane	75-27-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Dibromomethane	74-95-3	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
cis-1,3-Dichloropropane	10061-01-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Toluene	108-88-3	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,3-Dichloropropane	10061-02-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2-Trichloroethane	79-00-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Tetrachloroethene	127-18-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
trans-1,4-Dichloro-2-butene	110-57-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Dibromochloromethane	124-48-1	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromoethane	106-93-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Chlorobenzene	108-90-7	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,1,2-Tetrachloroethane	630-20-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Ethylbenzene	100-41-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
p,m-Xylene	No CAS #	ND	2	ND	2	ND	2	ND	2	ND	2	ND	2
o-Xylene	95-47-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Styrene	100-42-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Isopropylbenzene	98-82-8	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Bromoform	75-25-2	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,1,2,2-Tetrachloroethane	79-34-5	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1

Notes:

Results in parts per billion

D - Drinking Water Criterion

NA = Not Analyzed

ND = Not Detected

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	MW-100S (03/07/2012)	MW-101S (03/08/2012)	MW-102S (03/08/2012)	MW-103S (03/13/2012)	DUP (03/26/2012) (MW-103S)	Trip Blank (03/23/2012)
Sample Depth (feet BGS)	5'-15'	9'-19'	9'-19'	5'-15'	5'-15'	NA
Date Collected	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012	3/26/2012
Collection Method	Grab	Grab	Grab	Grab	Grab	Grab

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed	3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012		
Analytical Method Number	8260B		8260B		8260B		8260B		8260B		8260B		
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
n-Propylbenzene	103-65-1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Bromobenzene	108-86-1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,3,5-Trimethylbenzene	108-67-8	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
tert-Butylbenzene	98-06-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,4-Trimethylbenzene	95-63-6	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
sec-Butylbenzene	135-98-8	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
p-Isopropyltoluene	99-87-6	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,3-Dichlorobenzene	541-73-1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,4-Dichlorobenzene	106-46-7	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2-Dichlorobenzene	95-50-1	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
1,2,3-Trimethylbenzene	526-73-8	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
n-Butylbenzene	104-51-8	ND	1	ND	1	ND	1	ND	1	ND	1	ND	1
Hexachloroethane	67-72-1	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2-Dibromo-3-chloropropane	96-12-8	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,4-Trichlorobenzene	120-82-1	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
1,2,3-Trichlorobenzene	87-61-6	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
Naphthalene	91-20-3	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5
2-Methylnaphthalene	91-57-6	ND	5	ND	5	ND	5	ND	5	ND	5	ND	5

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected



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

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	Field Blank (03/26/2012)
Sample Depth (feet BGS)	NA
Date Collected	3/26/2012
Collection Method	Grab

INORGANICS

Date Analyzed	NA												
Analytical Method Number	NA												
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Alkalinity as CaCO3	No CAS #	NA	NA										
Ammonia-N	7664-41-7	NA	NA										
Chloride	16887-006	NA	NA										
Chromium VI	18540-29-9	NA	NA										
Hardness	No CAS #	NA	NA										
Nitrate-N	14797-55-8	NA	NA										
Nitrite-N	14797-65-0	NA	NA										
Sulfate	14808-79-8	NA	NA										
TOC	No CAS #	NA	NA										
Total Dissolved Solids	No CAS #	NA	NA										

METALS

Date Analyzed	NA												
Metal Digestion	NA												
Analytical Method Number	NA												
CONSTITUENT (mg/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-38-2	NA	NA										
Barium	7440-39-3	NA	NA										
Cadmium	7440-43-9	NA	NA										
Chromium	7440-47-3	NA	NA										
Copper	7440-50-8	NA	NA										
Lead	7439-92-1	NA	NA										
Mercury	7439-97-6	NA	NA										
Selenium	7782-49-2	NA	NA										
Silver	7440-22-4	NA	NA										
Zinc	7440-66-6	NA	NA										

POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES

Date Analyzed	NA												
Date Extracted	NA												
Analytical Method Number	NA												
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	NA	NA										
PCB-1242	53469-21-9	NA	NA										
PCB-1221	11104-28-2	NA	NA										
PCB-1232	11141-16-5	NA	NA										
PCB-1248	12672-29-6	NA	NA										
PCB-1254	11097-69-1	NA	NA										
PCB-1260	11096-82-5	NA	NA										
PCB, Total	1336-36-3	NA	NA										

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected



WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	Field Blank (03/26/2012)													
Sample Depth (feet BGS)	NA													
Date Collected	3/26/2012													
Collection Method	Grab													

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)

Date Analyzed		NA											
Analytical Method Number		NA											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Acenaphthene	83-32-9	NA	NA										
Acenaphthylene	208-96-8	NA	NA										
Anthracene	120-12-7	NA	NA										
Benzo(a)anthracene	56-55-3	NA	NA										
Benzo(b)fluoranthene	205-99-2	NA	NA										
Benzo(k)fluoranthene	207-08-9	NA	NA										
Benzo(ghi)perylene	191-24-2	NA	NA										
Benzo(a)pyrene	50-32-8	NA	NA										
bis(2-Chloroethoxy)methane	111-91-1	NA	NA										
bis(2-Chloroethyl)ether	111-44-4	NA	NA										
bis(2-Chloroisopropyl)ether	108-60-1	NA	NA										
bis(2-Ethylhexyl)phthalate	117-81-7	NA	NA										
4-Bromophenyl phenyl ether	101-55-3	NA	NA										
Butyl benzyl phthalate	85-60-7	NA	NA										
4-Chloroaniline	106-47-8	NA	NA										
2-Chloronaphthalene	91-58-7	NA	NA										
4-Chloro-3-methylphenol	59-50-7	NA	NA										
2-Chlorophenol	95-57-8	NA	NA										
4-Chlorophenyl phenyl ether	7005-72-3	NA	NA										
Chrysene	218-01-9	NA	NA										
p,m-Cresol	3/4-Cresol	NA	NA										
o-Cresol	95-48-7	NA	NA										
Dibenzo(ah)anthracene	53-70-3	NA	NA										
Dibenzofuran	132-64-9	NA	NA										
di-n-Butyl phthalate	84-74-2	NA	NA										
1,2-Dichlorobenzene	95-50-1	NA	NA										
1,3-Dichlorobenzene	541-73-1	NA	NA										
1,4-Dichlorobenzene	106-46-7	NA	NA										
3,3-Dichlorobenzidine	91-94-1	NA	NA										

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected



WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	Field Blank (03/26/2012)													
Sample Depth (feet BGS)	NA													
Date Collected	3/26/2012													
Collection Method	Grab													

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed		NA											
Analytical Method Number		NA											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
2,4-Dichlorophenol	120-83-2	NA	NA										
Diethyl phthalate	84-66-2	NA	NA										
2,4-Dimethylphenol	105-67-9	NA	NA										
Dimethyl phthalate	131-11-3	NA	NA										
4,6-Dinitro-2-methylphenol	534-52-1	NA	NA										
2,4-Dinitrophenol	51-28-5	NA	NA										
2,4-Dinitrotoluene	121-14-2	NA	NA										
2,6-Dinitrotoluene	606-20-2	NA	NA										
1,2-Diphenylhydrazine	122-66-7	NA	NA										
di-n-Octyl phthalate	117-84-0	NA	NA										
Fluoranthene	206-44-0	NA	NA										
Fluorene	86-73-7	NA	NA										
Hexachlorobenzene	118-74-1	NA	NA										
Hexachlorobutadiene	87-68-3	NA	NA										
Hexachlorocyclopentadiene	77-47-4	NA	NA										
Hexachloroethane	67-72-1	NA	NA										
Indeno(1,2,3-cd)pyrene	193-39-5	NA	NA										
Isophorone	78-59-1	NA	NA										
2-Methylnaphthalene	91-57-6	NA	NA										
Naphthalene	91-20-3	NA	NA										
2-Nitroaniline	88-74-4	NA	NA										
3-Nitroaniline	99-09-2	NA	NA										
4-Nitroaniline	100-01-6	NA	NA										
Nitrobenzene	98-95-3	NA	NA										
2-Nitrophenol	88-75-5	NA	NA										
4-Nitrophenol	100-02-7	NA	NA										
N-Nitrosodiphenylamine	86-30-6	NA	NA										
N-Nitrosodi-n-propylamine	621-64-7	NA	NA										
Pentachlorophenol	87-86-5	NA	NA										

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected



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

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	Field Blank (03/26/2012)												
Sample Depth (feet BGS)	NA												
Date Collected	3/26/2012												
Collection Method	Grab												

SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued

Date Analyzed		NA											
Analytical Method Number		NA											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Phenanthrene	85-01-8	NA	NA										
Phenol	108-95-2	NA	NA										
Pyrene	129-00-0	NA	NA										
1,2,4-Trichlorobenzene	120-82-1	NA	NA										
2,4,5-Trichlorophenol	95-95-4	NA	NA										
2,4,6-Trichlorophenol	88-06-2	NA	NA										

VOLATILE ORGANICS COMPOUNDS (VOCs)

Date Analyzed		3/31/2012											
Analytical Method Number		8260B											
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	10										
Acetone	67-64-1	ND	50										
Methyl iodide	74-88-4	ND	1										
Carbon disulfide	75-15-0	ND	5										
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	5										
Acrylonitrile	107-13-1	ND	2										
2-Butanone (MEK)	78-93-3	ND	25										
Dichlorodifluoromethane	75-71-8	ND	5										
Chloromethane	74-87-3	ND	5										
Vinyl chloride	75-01-4	ND	1										
Bromomethane	74-83-9	ND	5										
Chloroethane	75-00-3	ND	5										
Trichlorofluoromethane	75-69-4	ND	1										
1,1-Dichloroethene	75-35-4	ND	1										
Methylene chloride	75-09-2	ND	5										
trans-1,2-Dichloroethene	156-60-5	ND	1										
1,1-Dichloroethane	75-34-3	ND	1										
cis-1,2-Dichloroethene	156-59-2	ND	1										
Tetrahydrofuran	109-99-9	ND	90										

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected



WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)

Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	Field Blank (03/26/2012)
Sample Depth (feet BGS)	NA
Date Collected	3/26/2012
Collection Method	Grab

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed	3/31/2012
Analytical Method Number	8260B

CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chloroform	67-66-3	ND	1										
Bromochloromethane	74-97-5	ND	1										
1,1,1-Trichloroethane	71-55-6	ND	1										
4-Methyl-2-pentanone (MIBK)	10810-1	ND	50										
2-Hexanone	591-78-6	ND	50										
Carbon tetrachloride	56-23-5	ND	1										
Benzene	71-43-2	ND	1										
1,2-Dichloroethane	107-06-2	ND	1										
Trichloroethene	79-01-6	ND	1										
1,2-Dichloropropane	78-87-5	ND	1										
Bromodichloromethane	75-27-4	ND	1										
Dibromomethane	74-95-3	ND	5										
cis-1,3-Dichloropropane	10061-01-5	ND	1										
Toluene	108-88-3	ND	1										
trans-1,3-Dichloropropane	10061-02-6	ND	1										
1,1,2-Trichloroethane	79-00-5	ND	1										
Tetrachloroethene	127-18-4	ND	1										
trans-1,4-Dichloro-2-butene	110-57-6	ND	1										
Dibromochloromethane	124-48-1	ND	5										
1,2-Dibromoethane	106-93-4	ND	1										
Chlorobenzene	108-90-7	ND	1										
1,1,1,2-Tetrachloroethane	630-20-6	ND	1										
Ethylbenzene	100-41-4	ND	1										
p,m-Xylene	No CAS #	ND	2										
o-Xylene	95-47-6	ND	1										
Styrene	100-42-5	ND	1										
Isopropylbenzene	98-82-8	ND	5										
Bromoform	75-25-2	ND	1										
1,1,2,2-Tetrachloroethane	79-34-5	ND	1										

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected

WATER VERIFICATION SAMPLING RESULTS (LABORATORY)

FACILITY NAME: Flint West Industrial Land (100-12990-0012)
Stevenson Street and Glenwood Avenue
Flint, Michigan

Sample Identification	Field Blank (03/26/2012)													
Sample Depth (feet BGS)	NA													
Date Collected	3/26/2012													
Collection Method	Grab													

VOLATILE ORGANICS COMPOUNDS (VOCs) - continued

Date Analyzed		3/31/2012													
Analytical Method Number		8260B													
CONSTITUENT (ug/L)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	1												
n-Propylbenzene	103-65-1	ND	1												
Bromobenzene	108-86-1	ND	1												
1,3,5-Trimethylbenzene	108-67-8	ND	1												
tert-Butylbenzene	98-06-6	ND	1												
1,2,4-Trimethylbenzene	95-63-6	ND	1												
sec-Butylbenzene	135-98-8	ND	1												
p-Isopropyltoluene	99-87-6	ND	5												
1,3-Dichlorobenzene	541-73-1	ND	1												
1,4-Dichlorobenzene	106-46-7	ND	1												
1,2-Dichlorobenzene	95-50-1	ND	1												
1,2,3-Trimethylbenzene	526-73-8	ND	1												
n-Butylbenzene	104-51-8	ND	1												
Hexachloroethane	67-72-1	ND	5												
1,2-Dibromo-3-chloropropane	96-12-8	ND	5												
1,2,4-Trichlorobenzene	120-82-1	ND	5												
1,2,3-Trichlorobenzene	87-61-6	ND	5												
Naphthalene	91-20-3	ND	5												
2-Methylnaphthalene	91-57-6	ND	5												

Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

Attachment # 4: Soil and Groundwater Analytical Data

Sample Set Receipt

Report to

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

Invoice to

Attention: Monica Wallingford
 Address: Racer Trust
 2930 Ecorse Road
 Ypsilanti, MI 48198

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

Phone: 313-486-2928 FAX: 248-594-4829
 Email: mwallingford@racertrust.org

Set ID: S51869 Location: APPLIED (Applied Ecosystems)

Project: 12990-Former Building 9, Delphi Flint

PO #: PO128083

Site: 1299

Submitted: 03/14/2012 13:15 Due Date: 03/28/2012

Collected by: Josh Adams

Login by: ASB

Sample ID	Sample Tag	Matrix	Date/Time Collected	COC Ref
S51869.01	SB-104 (03/13/2012) (07-08)	Soil	03/13/2012 13:21	64800
S51869.02	SB-104 (03/13/2012) (16-17)	Soil	03/13/2012 13:53	64800
S51869.03	DUP-2 (03/13/2012)	Soil	03/13/2012 00:01	64800
S51869.04	Field Blank (03/13/2012)	Methanol	03/13/2012 09:30	64800
S51869.05	Trip Blank (03/13/2012)	Methanol	03/13/2012 09:10	64800

Samples: S51869.01-03

Analysis Code	Analysis Title	Method	Units	Holding Date
\$58260	Volatile Organics 5035	8260B/5035	mg/kg	03/27/2012
\$8270	Semi-Volatile Organics - MDEQ	8270C	mg/kg	04/22/2012
2115SMS	Arsenic	6020	mg/kg	09/09/2012
2120SMS	Barium	6020	mg/kg	09/09/2012
2135SMS	Cadmium	6020	mg/kg	09/09/2012
2145SMS	Chromium	6020	mg/kg	09/09/2012
2155SMS	Copper	6020	mg/kg	09/09/2012
2165SMS	Lead	6020	mg/kg	09/09/2012
2185S	Mercury	7471A	mg/kg	04/10/2012
2205SMS	Selenium	6020	mg/kg	09/09/2012
2215SMS	Silver	6020	mg/kg	09/09/2012
2245SMS	Zinc	6020	mg/kg	09/09/2012
1605S	Metal Digestion	3050B		09/09/2012
1605HGS	Mercury Digestion	7471A		04/10/2012
4435S	Chromium VI	3500-Cr B	mg/kg	04/12/2012
4450S	Cyanide	335.4/4500-CN-E	mg/kg	03/27/2012
METHEXT	5035 Methanol Extraction	5035		12/07/2014
1106S	BNA Extraction	3550B		03/27/2012
4605	Total Solids	Std M 2540 B	%	04/10/2012
\$8080A	PCB List	8082A	mg/kg	04/22/2012
1120S	Extraction, PCB	3550B		03/27/2012

Samples: S51869.04-05

Analysis Code	Analysis Title	Method	Units	Holding Date
\$58260	Volatile Organics 5035	8260B/5035	mg/kg	03/27/2012
METHEXT	5035 Methanol Extraction	5035		12/07/2014

Sample Set Receipt

Report to

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

Invoice to

Attention: Monica Wallingford
 Address: Racer Trust
 2930 Ecorse Road
 Ypsilanti, MI 48198

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

Phone: 313-486-2928 FAX: 248-594-4829
 Email: mwallingford@racertrust.org

Set ID: S51984 Location: APPLIED (Applied Ecosystems)

Project: 12990-Former Building 9, Delphi - Flint

PO #: PO127976

Site: 1299

Submitted: 03/27/2012 10:46 Due Date: 04/10/2012

Collected by: Josh Adams

Login by: ASB

Sample ID	Sample Tag	Matrix	Date/Time Collected	COC Ref
S51984.01	MW-1005 (03/07/2012)	Groundwater	03/26/2012 12:11	64798
S51984.02	MW-1015 (03/07/2012)	Groundwater	03/26/2012 13:47	64798
S51984.03	MW-1025 (03/08/2012)	Groundwater	03/26/2012 15:18	64798
S51984.04	MW-1035 (03/13/2012)	Groundwater	03/26/2012 16:43	64798
S51984.05	DUP (03/26/2012)	Groundwater	03/26/2012 00:01	64798
S51984.06	Trip Blank (03/26/2012)	Groundwater	03/26/2012 08:31	64798
S51984.07	Field Blank (03/26/2012)	Groundwater	03/26/2012 10:27	64798

Samples: S51984.01-05

Analysis Code	Analysis Title	Method	Units	Holding Date
2115WMS	Arsenic	200.8	mg/L	09/22/2012
2120WMS	Barium	200.8	mg/L	09/22/2012
2135WMS	Cadmium	200.8	mg/L	09/22/2012
2145WMS	Chromium	200.8	mg/L	09/22/2012
2155WMS	Copper	200.8	mg/L	09/22/2012
2165WMS	Lead	200.8	mg/L	09/22/2012
2185W	Mercury	245.1	mg/L	04/23/2012
2205WMS	Selenium	200.8	mg/L	09/22/2012
2215WMS	Silver	200.8	mg/L	09/22/2012
2245WMS	Zinc	200.8	mg/L	09/22/2012
1605W	Metal Digestion	3015A		09/22/2012
4435W	Chromium VI	3500-Cr B	mg/L	03/27/2012
1605HGW	Mercury Digestion	245.1		04/23/2012
\$8260W	Volatile Organics - DEQ List	8260B	mg/L	04/09/2012
\$8270W	Semi-Volatile Organics - MDEQ	8270C	mg/L	05/05/2012
1106W	BNA Extraction	3510C		04/02/2012
4410W	Alkalinity	2320B	mg/L	04/09/2012
4415W	Ammonia-N	4500-NH3 D	mg/L	04/23/2012
4485W	Nitrate-N	300.0	mg/L	03/28/2012
4490W	Nitrite-N	300.0	mg/L	03/28/2012
4425W	Chloride	300.0	mg/L	04/23/2012
4530W	Sulfate	300.0	mg/L	04/23/2012
TOC415W	TOC	EPA 415.1	mg/L	04/23/2012
4470	Hardness	2340 C	mg/L	09/22/2012
4615	Total Dissolved Solids	2540C	mg/L	04/02/2012
\$608A	PCB	608	mg/L	05/05/2012
1120W	Extraction, PCB	3510C		04/02/2012

Samples: S51984.06-07

Analysis Code	Analysis Title	Method	Units	Holding Date
\$8260W	Volatile Organics - DEQ List	8260B	mg/L	04/09/2012



2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-6333
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

64798

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Mike Smith + Steve Lukow
 COMPANY: Applied EcoSystems
 ADDRESS: 64300 S. Saginaw St.
 CITY: Burton STATE: MI ZIP CODE: 48529
 PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 127976
 E-MAIL ADDRESS: slukow@appliedecosystems.com QUOTE NO.:

CONTACT NAME: SAME
 COMPANY: RALER
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: FAX NO.: P.O. NO.: 128083

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: 12990 - former building 9, Delphi - Flint SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / Josh Adams
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
 SL-SLUDGE O-OIL A-AIR W-WASTE M-MISC

Containers & Preservatives

VOCs
 SVOCs
 PCBs
 MI 10 Metals
 Cyanide
 Hex Chromium
 RALER Water
 Quality

SPECIAL INSTRUCTIONS/NOTES

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	SVOCs	PCBs	MI 10 Metals	Cyanide	Hex Chromium	RALER Water	Quality	SPECIAL INSTRUCTIONS/NOTES
	DATE	TIME																			
51984.01	03/26/2012	12:11	MW-1005 (03/07/2012)	GW	8	2	2	1	3				X	X	X	X	X	X	X	X	Task 6
.02		13:47	MW-1015 (03/08/2012)																		
.03		15:18	MW-1025 (03/07/2012)																		
.04		16:43	MW-1035 (03/13/2012)																		
.05		-	DVP (03/26/2012)																		
.06		8:31	Trip Blank (03/26/2012)																		
.07		10:27	Field Blank (03/26/2012)																		

RELINQUISHED BY: [Signature] DATE: 3/27/12 TIME: 10:40
 RECEIVED BY: _____ DATE: _____ TIME: _____
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: [Signature] DATE: 27 MAR 2012 TIME: 10:40
 SEAL NO. SEAL INTACT YES NO INITIALS: _____ NOTES: TEMP. ON ARRIVAL: 4.6
 SEAL NO. SEAL INTACT YES NO INITIALS: _____

Andy Ball <andyball.meritlabs@gmail.com>

 Racer Building 9 Flint West

Mike S <ae_mds@yahoo.com>

Reply-To: Mike S <ae_mds@yahoo.com>

To: "andyball@meritlabs.com" <andyball@meritlabs.com>

Tue, Mar 27, 2012 at 13:02

Andy - as discussed, this is the list of the "water quality parameters" for this project:

- Alkalinity
- Ammonia
- Chloride
- Nitrate/Nitrite
- Sulfate
- Hardness
- TDS
- TOC

Thank you

Mike Smith

Technical Services Manager

Applied EcoSystems-Great Lakes, Inc.
G-4300 South Saginaw Street
Burton, Michigan 48529

Ph: (810) 715-2525

Fax: (810) 715-2526

Toll Free: (877) 715-2444

msmith@appliedecosystems.com

ae_mds@yahoo.com

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Sample Set Receipt

Report to

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

Invoice to

Attention: Monica Wallingford
Address: Racer Trust
2930 Ecorse Road
Ypsilanti, MI 48198

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

Phone: 313-486-2928 FAX: 248-594-4829
Email: mwallingford@racertrust.org

Set ID: S52204 Location: APPLIED (Applied Ecosystems)

Project: 12990-Former Building 9, Delphi Flint

PO #: PO128083

Site: 1299

Submitted: 04/17/2012 14:30 Due Date: 05/01/2012

Collected by: Josh Adams

Login by: PCS

Sample ID	Sample Tag	Matrix	Date/Time Collected	COC Ref
S52204.01	MW-1005 (03/07/2012)	Groundwater	04/11/2012 10:06	64796
S52204.02	MW-1015 (03/08/2012)	Groundwater	04/11/2012 10:48	64796
S52204.03	MW-1025 (03/08/2012)	Groundwater	04/11/2012 11:31	64796
S52204.04	MW-1035 (03/13/2012)	Groundwater	04/11/2012 12:07	64796
S52204.05	Dup (04/11/2012)	Groundwater	04/11/2012 00:01	64796

Samples: S52204.01-05

Analysis Code	Analysis Title	Method	Units	Holding Date
4450W	Cyanide	335.4/4500-CN-E	mg/L	04/25/2012

Merit

Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-6333
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

64796

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Mike Smith + Steve Lutzkow
 COMPANY: Applied Eco Systems
 ADDRESS: 674300 S Saginaw St.
 CITY: Burton STATE: MI ZIP CODE: 48529
 PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 127976
 E-MAIL ADDRESS: slutzkow@appliedecosystems.com QUOTE NO.:

CONTACT NAME: RACER SAME
 COMPANY:
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: FAX NO.: P.O. NO.: 128083

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: 12990 - Former Building 9, Delphi - Flint SAMPLER(S) - PLEASE PRINT/SIGN NAME: John Adams / John Adams
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

MERCIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	# Containers & Preservatives								SPECIAL INSTRUCTIONS/NOTES
	DATE	TIME				NONE	HCL	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER		
5220401	04/11/2012	10:06	MW-1005 (03/07/2012)	GW	1									Grande
02		10:48	MW-1015 (03/08/2012)											
03		11:31	MW-1025 (03/08/2012)											
04		12:07	MW-1035 (03/13/2012)											
05		-	DUP (04/11/2012)											

MATRIX CODE: GW-GROUNDWATER SL-SLUDGE WW-WASTEWATER O-OIL S-SOIL A-AIR L-LIQUID W-WASTE SD-SOLID M-MISC

RELINQUISHED BY: John Adams DATE: 04/11/12 TIME: 3:18
 RECEIVED BY: A. Fridge DATE: 04/11/12 TIME: 3:18
 RELINQUISHED BY: A.E. Fridge DATE: 4-17-12 TIME: 9:45
 RECEIVED BY: Chris

RELINQUISHED BY: Chris DATE: 4-17-12 TIME: 14:50
 RECEIVED BY: John Adams DATE: 4-17-12 TIME: 14:30
 SEAL NO.: SEAL INTACT YES NO INITIALS: NOTES: TEMP. ON ARRIVAL: 4.8

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S51800.01(01)
Generated on 03/16/2012

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
2680 East Lansing Drive
East Lansing, MI 48823

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

Report Summary

Lab Sample ID(s): S51800.01-S51800.12
Project: #12990-11-01/Racer
Collected Date: 03/07/2012 - 03/08/2012
Submitted Date/Time: 03/09/2012 08:45
Sampled by: Unknown
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 RL.
Samples are held by the lab for 30 days from the sample submittal 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.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (12 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S51800.01	SB-100 (03/07/2012) (05-06)	Soil	03/07/2012 11:41
S51800.02	SB-100 (03/07/2012) (07-08)	Soil	03/07/2012 11:52
S51800.03	SB-101 (03/08/2012) (11-12)	Soil	03/08/2012 11:10
S51800.04	SB-101 (03/08/2012) (14-15)	Soil	03/08/2012 11:19
S51800.05	SB-102 (03/08/2012) (06-07)	Soil	03/08/2012 14:16
S51800.06	SB-102 (03/08/2012) (12-13)	Soil	03/08/2012 14:29
S51800.07	SB-103 (03/08/2012) (09-10)	Soil	03/08/2012 16:13
S51800.08	SB-103 (03/08/2012) (12-13)	Soil	03/08/2012 16:27
S51800.09	DUP-1 (03/08/2012)	Soil	03/08/2012 00:01
S51800.10	Field Blank (03/07/2012)	Methonal	03/07/2012 08:30
S51800.11	Field Blank (03/08/2012)	Methonal	03/08/2012 08:30
S51800.12	Trip Blank	Methonal	03/07/2012 08:00



Analytical Laboratory Report

Lab Sample ID: S51800.01
 Sample Tag: SB-100 (03/07/2012) (05-06)
 Collected Date/Time: 03/07/2012 11:41
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
----------	---------	-------	----	--------	---------------	---------	-------	-------

Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 12:45	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 10:44	JDP	57-12-5	
Total Solids	79	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	1.15	mg/kg	0.10	6020	03/13/12 12:53	PER	7440-38-2	
Barium	37.9	mg/kg	1.0	6020	03/13/12 12:53	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/13/12 12:53	PER	7440-43-9	
Chromium	2.90	mg/kg	0.50	6020	03/13/12 12:53	PER	7440-47-3	
Copper	3.05	mg/kg	0.50	6020	03/13/12 12:53	PER	7440-50-8	
Lead	6.29	mg/kg	0.30	6020	03/13/12 12:53	PER	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/12/12 15:55	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 12:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/13/12 12:53	PER	7440-22-4	
Zinc	10.1	mg/kg	1.0	6020	03/13/12 12:53	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 14:06	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 14:06	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 14:06	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 14:06	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 14:06	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 14:06	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 14:06	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.01 (continued)
Sample Tag: SB-100 (03/07/2012) (05-06)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 16:04	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 16:04	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 16:04	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 16:04	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 16:04	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 16:04	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 16:04	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 16:04	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.01 (continued)
Sample Tag: SB-100 (03/07/2012) (05-06)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:04	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/09/12 14:21	JGH	60-29-7	
Acetone	Not detected	ug/kg	2,000	8260B/5035	03/09/12 14:21	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/09/12 14:21	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/09/12 14:21	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,200	8260B/5035	03/09/12 14:21	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:21	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:21	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 14:21	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:21	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	2,000	8260B/5035	03/09/12 14:21	JGH	109-99-9	
Chloroform	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/09/12 14:21	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	8260B/5035	03/09/12 14:21	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	56-23-5	
Benzene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:21	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	10061-01-5	
Toluene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/09/12 14:21	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.01 (continued)
Sample Tag: SB-100 (03/07/2012) (05-06)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH		
o-Xylene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	95-47-6	
Styrene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	8260B/5035	03/09/12 14:21	JGH	98-82-8	
Bromoform	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:21	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 14:21	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	500	8260B/5035	03/09/12 14:21	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:21	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	540	8260B/5035	03/09/12 14:21	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	540	8260B/5035	03/09/12 14:21	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	540	8260B/5035	03/09/12 14:21	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	540	8260B/5035	03/09/12 14:21	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.02
 Sample Tag: SB-100 (03/07/2012) (07-08)
 Collected Date/Time: 03/07/2012 11:52
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 12:55	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 10:52	JDP	57-12-5	
Total Solids	79	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	1.64	mg/kg	0.10	6020	03/13/12 12:55	PER	7440-38-2	
Barium	37.1	mg/kg	1.0	6020	03/13/12 12:55	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/13/12 12:55	PER	7440-43-9	
Chromium	3.19	mg/kg	0.50	6020	03/13/12 12:55	PER	7440-47-3	
Copper	4.36	mg/kg	0.50	6020	03/13/12 12:55	PER	7440-50-8	
Lead	6.08	mg/kg	0.30	6020	03/13/12 12:55	PER	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/12/12 15:57	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 12:55	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/13/12 12:55	PER	7440-22-4	
Zinc	15.0	mg/kg	1.0	6020	03/13/12 12:55	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 14:16	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 14:16	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 14:16	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 14:16	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 14:16	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 14:16	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 14:16	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.02 (continued)

Sample Tag: SB-100 (03/07/2012) (07-08)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 16:38	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 16:38	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 16:38	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 16:38	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 16:38	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 16:38	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 16:38	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 16:38	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.02 (continued)
 Sample Tag: SB-100 (03/07/2012) (07-08)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 16:38	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/09/12 14:41	JGH	60-29-7	
Acetone	Not detected	ug/kg	2,000	8260B/5035	03/09/12 14:41	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/09/12 14:41	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/09/12 14:41	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,300	8260B/5035	03/09/12 14:41	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:41	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:41	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 14:41	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:41	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	2,000	8260B/5035	03/09/12 14:41	JGH	109-99-9	
Chloroform	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/09/12 14:41	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	8260B/5035	03/09/12 14:41	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	56-23-5	
Benzene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:41	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	10061-01-5	
Toluene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/09/12 14:41	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.02 (continued)
Sample Tag: SB-100 (03/07/2012) (07-08)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH		
o-Xylene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	95-47-6	
Styrene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	8260B/5035	03/09/12 14:41	JGH	98-82-8	
Bromoform	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 14:41	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	90	8260B/5035	03/09/12 14:41	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	500	8260B/5035	03/09/12 14:41	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	8260B/5035	03/09/12 14:41	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	570	8260B/5035	03/09/12 14:41	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	570	8260B/5035	03/09/12 14:41	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	570	8260B/5035	03/09/12 14:41	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	570	8260B/5035	03/09/12 14:41	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.03
 Sample Tag: SB-101 (03/08/2012) (11-12)
 Collected Date/Time: 03/08/2012 11:10
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 13:15	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 10:54	JDP	57-12-5	
Total Solids	87	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	0.43	mg/kg	0.10	6020	03/13/12 12:58	PER	7440-38-2	
Barium	4.02	mg/kg	1.0	6020	03/13/12 12:58	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/13/12 12:58	PER	7440-43-9	
Chromium	0.69	mg/kg	0.50	6020	03/13/12 12:58	PER	7440-47-3	
Copper	0.52	mg/kg	0.50	6020	03/13/12 12:58	PER	7440-50-8	
Lead	0.95	mg/kg	0.30	6020	03/13/12 12:58	PER	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/12/12 16:14	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 12:58	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/13/12 12:58	PER	7440-22-4	
Zinc	1.77	mg/kg	1.0	6020	03/13/12 12:58	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 14:27	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 14:27	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 14:27	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 14:27	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 14:27	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 14:27	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 14:27	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.03 (continued)
Sample Tag: SB-101 (03/08/2012) (11-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 17:12	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 17:12	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 17:12	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 17:12	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 17:12	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 17:12	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 17:12	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 17:12	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.03 (continued)
 Sample Tag: SB-101 (03/08/2012) (11-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:12	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/09/12 15:01	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 15:01	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/09/12 15:01	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/09/12 15:01	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,100	8260B/5035	03/09/12 15:01	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:01	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:01	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 15:01	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:01	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 15:01	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/09/12 15:01	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	8260B/5035	03/09/12 15:01	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:01	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/09/12 15:01	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.03 (continued)
Sample Tag: SB-101 (03/08/2012) (11-12)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH		
o-Xylene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	8260B/5035	03/09/12 15:01	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:01	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 15:01	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:01	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:01	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	480	8260B/5035	03/09/12 15:01	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	480	8260B/5035	03/09/12 15:01	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	480	8260B/5035	03/09/12 15:01	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	480	8260B/5035	03/09/12 15:01	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.04
 Sample Tag: SB-101 (03/08/2012) (14-15)
 Collected Date/Time: 03/08/2012 11:19
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 13:20	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 10:58	JDP	57-12-5	
Total Solids	80	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	1.14	mg/kg	0.10	6020	03/13/12 13:00	PER	7440-38-2	
Barium	38.6	mg/kg	1.0	6020	03/13/12 13:00	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/13/12 13:00	PER	7440-43-9	
Chromium	4.27	mg/kg	0.50	6020	03/13/12 13:00	PER	7440-47-3	
Copper	6.01	mg/kg	0.50	6020	03/13/12 13:00	PER	7440-50-8	
Lead	7.11	mg/kg	0.30	6020	03/13/12 13:00	PER	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/12/12 15:59	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 13:00	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/13/12 13:00	PER	7440-22-4	
Zinc	15.8	mg/kg	1.0	6020	03/13/12 13:00	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 14:38	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 14:38	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 14:38	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 14:38	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 14:38	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 14:38	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 14:38	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.04 (continued)

Sample Tag: SB-101 (03/08/2012) (14-15)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 17:46	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 17:46	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 17:46	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 17:46	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 17:46	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 17:46	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 17:46	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 17:46	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.04 (continued)
 Sample Tag: SB-101 (03/08/2012) (14-15)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 17:46	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/09/12 15:21	JGH	60-29-7	
Acetone	Not detected	ug/kg	2,000	8260B/5035	03/09/12 15:21	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/09/12 15:21	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/09/12 15:21	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,200	8260B/5035	03/09/12 15:21	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:21	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:21	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 15:21	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:21	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	2,000	8260B/5035	03/09/12 15:21	JGH	109-99-9	
Chloroform	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/09/12 15:21	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	8260B/5035	03/09/12 15:21	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	56-23-5	
Benzene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:21	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	10061-01-5	
Toluene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/09/12 15:21	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.04 (continued)
Sample Tag: SB-101 (03/08/2012) (14-15)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH		
o-Xylene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	95-47-6	
Styrene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	8260B/5035	03/09/12 15:21	JGH	98-82-8	
Bromoform	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/09/12 15:21	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/09/12 15:21	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	500	8260B/5035	03/09/12 15:21	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:21	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	540	8260B/5035	03/09/12 15:21	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	540	8260B/5035	03/09/12 15:21	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	540	8260B/5035	03/09/12 15:21	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	540	8260B/5035	03/09/12 15:21	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.05
 Sample Tag: SB-102 (03/08/2012) (06-07)
 Collected Date/Time: 03/08/2012 14:16
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 13:25	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 11:00	JDP	57-12-5	
Total Solids	90	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	1.58	mg/kg	0.10	6020	03/13/12 13:02	PER	7440-38-2	
Barium	26.1	mg/kg	1.0	6020	03/13/12 13:02	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/13/12 13:02	PER	7440-43-9	
Chromium	16.4	mg/kg	0.50	6020	03/13/12 13:02	PER	7440-47-3	
Copper	21.1	mg/kg	0.50	6020	03/13/12 13:02	PER	7440-50-8	
Lead	15.2	mg/kg	0.30	6020	03/13/12 13:02	PER	7439-92-1	
Mercury	0.058	mg/kg	0.050	7471A	03/12/12 16:01	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 13:02	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/13/12 13:02	PER	7440-22-4	
Zinc	27.1	mg/kg	1.0	6020	03/13/12 13:02	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 14:48	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 14:48	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 14:48	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 14:48	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 14:48	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 14:48	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 14:48	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.05 (continued)

Sample Tag: SB-102 (03/08/2012) (06-07)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 18:20	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 18:20	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 18:20	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 18:20	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 18:20	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 18:20	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 18:20	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 18:20	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.05 (continued)
Sample Tag: SB-102 (03/08/2012) (06-07)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:20	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 15:41	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	950	8260B/5035	03/09/12 15:41	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 15:41	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/09/12 15:41	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/09/12 15:41	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	107-06-2	
Trichloroethene	330	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/09/12 15:41	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.05 (continued)
Sample Tag: SB-102 (03/08/2012) (06-07)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH		
o-Xylene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 15:41	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 15:41	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 15:41	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/09/12 15:41	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	420	8260B/5035	03/09/12 15:41	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	420	8260B/5035	03/09/12 15:41	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	420	8260B/5035	03/09/12 15:41	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	420	8260B/5035	03/09/12 15:41	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.06
 Sample Tag: SB-102 (03/08/2012) (12-13)
 Collected Date/Time: 03/08/2012 14:29
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 13:30	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 11:02	JDP	57-12-5	
Total Solids	90	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	0.39	mg/kg	0.10	6020	03/13/12 13:12	PER	7440-38-2	
Barium	6.90	mg/kg	1.0	6020	03/13/12 13:12	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/13/12 13:12	PER	7440-43-9	
Chromium	1.20	mg/kg	0.50	6020	03/13/12 13:12	PER	7440-47-3	
Copper	0.71	mg/kg	0.50	6020	03/13/12 13:12	PER	7440-50-8	
Lead	1.18	mg/kg	0.30	6020	03/13/12 13:12	PER	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/12/12 16:04	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 13:12	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/13/12 13:12	PER	7440-22-4	
Zinc	2.19	mg/kg	1.0	6020	03/13/12 13:12	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 14:59	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 14:59	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 14:59	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 14:59	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 14:59	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 14:59	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 14:59	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.06 (continued)

Sample Tag: SB-102 (03/08/2012) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 18:54	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 18:54	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 18:54	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 18:54	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 18:54	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 18:54	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 18:54	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 18:54	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.06 (continued)
 Sample Tag: SB-102 (03/08/2012) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 18:54	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	8260B/5035	03/09/12 16:01	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 16:01	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/09/12 16:01	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	8260B/5035	03/09/12 16:01	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	890	8260B/5035	03/09/12 16:01	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:01	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:01	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	8260B/5035	03/09/12 16:01	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:01	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 16:01	JGH	109-99-9	
Chloroform	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/09/12 16:01	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/09/12 16:01	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	56-23-5	
Benzene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:01	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	8260B/5035	03/09/12 16:01	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.06 (continued)
Sample Tag: SB-102 (03/08/2012) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH		
o-Xylene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	95-47-6	
Styrene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/09/12 16:01	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:01	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/09/12 16:01	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 16:01	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:01	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	390	8260B/5035	03/09/12 16:01	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	390	8260B/5035	03/09/12 16:01	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	390	8260B/5035	03/09/12 16:01	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	390	8260B/5035	03/09/12 16:01	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.07
 Sample Tag: SB-103 (03/08/2012) (09-10)
 Collected Date/Time: 03/08/2012 16:13
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 13:35	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 11:06	JDP	57-12-5	
Total Solids	86	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	1.51	mg/kg	0.10	6020	03/13/12 13:05	PER	7440-38-2	
Barium	27.9	mg/kg	1.0	6020	03/13/12 13:05	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/13/12 13:05	PER	7440-43-9	
Chromium	2.73	mg/kg	0.50	6020	03/13/12 13:05	PER	7440-47-3	
Copper	3.94	mg/kg	0.50	6020	03/13/12 13:05	PER	7440-50-8	
Lead	3.61	mg/kg	0.30	6020	03/13/12 13:05	PER	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/12/12 16:06	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 13:05	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/13/12 13:05	PER	7440-22-4	
Zinc	9.93	mg/kg	1.0	6020	03/13/12 13:05	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 15:09	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 15:09	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 15:09	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 15:09	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 15:09	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 15:09	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 15:09	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.07 (continued)
 Sample Tag: SB-103 (03/08/2012) (09-10)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 19:28	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 19:28	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 19:28	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 19:28	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 19:28	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 19:28	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 19:28	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 19:28	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.07 (continued)
 Sample Tag: SB-103 (03/08/2012) (09-10)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 19:28	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 16:21	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,000	8260B/5035	03/09/12 16:21	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 16:21	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/09/12 16:21	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/09/12 16:21	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/09/12 16:21	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.07 (continued)
Sample Tag: SB-103 (03/08/2012) (09-10)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH		
o-Xylene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:21	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:21	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 16:21	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:21	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	8260B/5035	03/09/12 16:21	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	8260B/5035	03/09/12 16:21	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	450	8260B/5035	03/09/12 16:21	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	450	8260B/5035	03/09/12 16:21	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.08
 Sample Tag: SB-103 (03/08/2012) (12-13)
 Collected Date/Time: 03/08/2012 16:27
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 13:40	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 11:08	JDP	57-12-5	
Total Solids	81	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	1.05	mg/kg	0.10	6020	03/13/12 13:07	PER	7440-38-2	
Barium	9.98	mg/kg	1.0	6020	03/13/12 13:07	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/13/12 13:07	PER	7440-43-9	
Chromium	1.43	mg/kg	0.50	6020	03/13/12 13:07	PER	7440-47-3	
Copper	5.41	mg/kg	0.50	6020	03/13/12 13:07	PER	7440-50-8	
Lead	3.81	mg/kg	0.30	6020	03/13/12 13:07	PER	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/12/12 16:08	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 13:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/13/12 13:07	PER	7440-22-4	
Zinc	11.2	mg/kg	1.0	6020	03/13/12 13:07	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 15:20	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 15:20	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 15:20	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 15:20	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 15:20	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 15:20	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 15:20	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.08 (continued)

Sample Tag: SB-103 (03/08/2012) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 20:02	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 20:02	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 20:02	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 20:02	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 20:02	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 20:02	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 20:02	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 20:02	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.08 (continued)
 Sample Tag: SB-103 (03/08/2012) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:02	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/09/12 16:41	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 16:41	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/09/12 16:41	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/09/12 16:41	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,100	8260B/5035	03/09/12 16:41	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 16:41	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 16:41	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 16:41	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 16:41	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 16:41	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/09/12 16:41	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	8260B/5035	03/09/12 16:41	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	8260B/5035	03/09/12 16:41	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/09/12 16:41	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.08 (continued)
Sample Tag: SB-103 (03/08/2012) (12-13)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH		
o-Xylene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	8260B/5035	03/09/12 16:41	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 16:41	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 16:41	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 16:41	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	8260B/5035	03/09/12 16:41	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	490	8260B/5035	03/09/12 16:41	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	490	8260B/5035	03/09/12 16:41	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	490	8260B/5035	03/09/12 16:41	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	490	8260B/5035	03/09/12 16:41	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.09
 Sample Tag: DUP-1 (03/08/2012)
 Collected Date/Time: 03/08/2012 00:01
 Matrix: Soil
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR
1	8oz Glass	None	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/12/12 22:54	EMR		
Extraction, PCB	Completed			3550B	03/12/12 11:24	CCM		
Mercury Digestion	Completed			7471A	03/12/12 11:30	JRH		
Metal Digestion	Completed			3050B	03/13/12 10:00	PER		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/14/12 13:45	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/15/12 11:10	JDP	57-12-5	
Total Solids	86	%	1	Std M 2540 B	03/12/12 12:15	RGS		

Metals

Arsenic	5.93	mg/kg	0.10	6020	03/13/12 13:09	PER	7440-38-2	
Barium	84.4	mg/kg	1.0	6020	03/13/12 13:09	PER	7440-39-3	
Cadmium	0.41	mg/kg	0.20	6020	03/13/12 13:09	PER	7440-43-9	
Chromium	26.2	mg/kg	0.50	6020	03/13/12 13:09	PER	7440-47-3	
Copper	34.5	mg/kg	0.50	6020	03/13/12 13:09	PER	7440-50-8	
Lead	114	mg/kg	0.30	6020	03/13/12 13:09	PER	7439-92-1	
Mercury	0.400	mg/kg	0.050	7471A	03/12/12 16:10	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/13/12 13:09	PER	7782-49-2	
Silver	0.23	mg/kg	0.20	6020	03/13/12 13:09	PER	7440-22-4	
Zinc	117	mg/kg	1.0	6020	03/13/12 13:09	PER	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/12/12 15:30	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/12/12 15:30	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/12/12 15:30	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/12/12 15:30	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/12/12 15:30	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/12/12 15:30	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/12/12 15:30	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51800.09 (continued)

Sample Tag: DUP-1 (03/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/13/12 20:37	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/13/12 20:37	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/13/12 20:37	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/13/12 20:37	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 20:37	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 20:37	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/13/12 20:37	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/13/12 20:37	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51800.09 (continued)

Sample Tag: DUP-1 (03/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/13/12 20:37	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/09/12 17:01	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 17:01	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/09/12 17:01	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/09/12 17:01	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,100	8260B/5035	03/09/12 17:01	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 17:01	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	400	8260B/5035	03/09/12 17:01	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:01	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 17:01	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 17:01	JGH	109-99-9	
Chloroform	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/09/12 17:01	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	8260B/5035	03/09/12 17:01	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	56-23-5	
Benzene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	400	8260B/5035	03/09/12 17:01	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/09/12 17:01	JGH	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.09 (continued)

Sample Tag: DUP-1 (03/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	630-20-6	
Ethylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH		
o-Xylene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	95-47-6	
Styrene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	8260B/5035	03/09/12 17:01	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:01	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	70	8260B/5035	03/09/12 17:01	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	400	8260B/5035	03/09/12 17:01	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	8260B/5035	03/09/12 17:01	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	460	8260B/5035	03/09/12 17:01	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	460	8260B/5035	03/09/12 17:01	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	460	8260B/5035	03/09/12 17:01	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	460	8260B/5035	03/09/12 17:01	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.10
 Sample Tag: Field Blank (03/07/2012)
 Collected Date/Time: 03/07/2012 08:30
 Matrix: Methonal
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	8260B/5035	03/09/12 17:21	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 17:21	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/09/12 17:21	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	8260B/5035	03/09/12 17:21	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	750	8260B/5035	03/09/12 17:21	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:21	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:21	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	8260B/5035	03/09/12 17:21	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:21	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 17:21	JGH	109-99-9	
Chloroform	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/09/12 17:21	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/09/12 17:21	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	56-23-5	
Benzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:21	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	8260B/5035	03/09/12 17:21	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	630-20-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.10 (continued)

Sample Tag: Field Blank (03/07/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH		
o-Xylene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	95-47-6	
Styrene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/09/12 17:21	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:21	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:21	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:21	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:21	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/09/12 17:21	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/09/12 17:21	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	330	8260B/5035	03/09/12 17:21	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	330	8260B/5035	03/09/12 17:21	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.11
 Sample Tag: Field Blank (03/08/2012)
 Collected Date/Time: 03/08/2012 08:30
 Matrix: Methonal
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	200	8260B/5035	03/09/12 17:40	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 17:40	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/09/12 17:40	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	8260B/5035	03/09/12 17:40	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	750	8260B/5035	03/09/12 17:40	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:40	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:40	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	8260B/5035	03/09/12 17:40	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:40	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 17:40	JGH	109-99-9	
Chloroform	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/09/12 17:40	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/09/12 17:40	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	56-23-5	
Benzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:40	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	8260B/5035	03/09/12 17:40	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	630-20-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.11 (continued)

Sample Tag: Field Blank (03/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH		
o-Xylene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	95-47-6	
Styrene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/09/12 17:40	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 17:40	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 17:40	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:40	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/09/12 17:40	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/09/12 17:40	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/09/12 17:40	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	330	8260B/5035	03/09/12 17:40	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	330	8260B/5035	03/09/12 17:40	JGH	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51800.12
 Sample Tag: Trip Blank
 Collected Date/Time: 03/07/2012 08:00
 Matrix: Methonal
 COC Reference: 64784

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	200	8260B/5035	03/09/12 18:01	JGH	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/09/12 18:01	JGH	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/09/12 18:01	JGH	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	8260B/5035	03/09/12 18:01	JGH	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	750	8260B/5035	03/09/12 18:01	JGH	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 18:01	JGH	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/09/12 18:01	JGH	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	75-01-4	
Bromomethane	Not detected	ug/kg	200	8260B/5035	03/09/12 18:01	JGH	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 18:01	JGH	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/09/12 18:01	JGH	109-99-9	
Chloroform	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/09/12 18:01	JGH	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/09/12 18:01	JGH	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	56-23-5	
Benzene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	107-06-2	
Trichloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/09/12 18:01	JGH	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	8260B/5035	03/09/12 18:01	JGH	106-93-4	M
Chlorobenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	630-20-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51800.12 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH		
o-Xylene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	95-47-6	
Styrene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/09/12 18:01	JGH	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/09/12 18:01	JGH	526-73-8	
n-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/09/12 18:01	JGH	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	8260B/5035	03/09/12 18:01	JGH	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/09/12 18:01	JGH	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/09/12 18:01	JGH	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/09/12 18:01	JGH	87-61-6	
Naphthalene	Not detected	ug/kg	330	8260B/5035	03/09/12 18:01	JGH	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	330	8260B/5035	03/09/12 18:01	JGH	91-57-6	



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C.O.C. PAGE # 1 OF 1

64784

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Mike Smith + Steve Lutzkow
 COMPANY: Applied EcoSystems
 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.: #12990-11-01
 E-MAIL ADDRESS: slutzkow@appliedecosystems.com QUOTE NO.:

CONTACT NAME: SAME
 COMPANY: RACER Trust
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: FAX NO.: P.O. NO.:

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: #12990-11-01/RACER SAMPLER(S) - PLEASE PRINT/SIGN NAME:
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC
 # Containers & Preservatives:

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	SVOCs	PCBs	MI 10 Metals	Cyanide	Hex Chromium	SPECIAL INSTRUCTIONS/NOTES
	DATE	TIME																	
51800.01	03/07/2012	11:41	SB-100 (03/07/2012) (05-06)	S	2	1					1		X	X	X	X	X	X	
.02	03/07/2012	11:52	SB-100 (03/07/2012) (07-08)	S	2	1					1		X	X	X	X	X	X	
.03	03/08/2012	11:10	SB-101 (03/08/2012) (11-12)	S	2	1					1		X	X	X	X	X	X	
.04	03/08/2012	11:19	SB-101 (03/08/2012) (14-15)	S	2	1					1		X	X	X	X	X	X	
.05	03/08/2012	14:16	SB-102 (03/08/2012) (06-07)	S	2	1					1		X	X	X	X	X	X	
.06	03/08/2012	14:29	SB-102 (03/08/2012) (12-13)	S	2	1					1		X	X	X	X	X	X	
.07	03/08/2012	16:13	SB-103 (03/08/2012) (09-10)	S	2	1					1		X	X	X	X	X	X	
.08	03/08/2012	16:27	SB-103 (03/08/2012) (12-13)	S	2	1					1		X	X	X	X	X	X	
.09	03/08/2012	—	DUP-1 (03/08/2012)	S	2	1					1		X	X	X	X	X	X	
.10	03/07/2012	8:30	Field Blank (03/07/2012)	S	1						1		X						
.11	03/08/2012	8:30	Field Blank (03/08/2012)	S	1						1		X						
.12	03/07/2012	8:00	Trip Blank	S	1						1		X						

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [Signature] DATE: 3/7/12 TIME: 8:45
 RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
 RELINQUISHED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
 RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:

RELINQUISHED BY: SIGNATURE/ORGANIZATION: [Signature] DATE: 03/07/12 TIME: 08:45
 RECEIVED BY: SIGNATURE/ORGANIZATION: DATE: TIME:
 SEAL NO. SEAL INTACT YES NO INITIALS: NOTES: TEMP. ON ARRIVAL: 4.4



Analytical Laboratory Report

Report ID: S51869.01(01)
Generated on 03/21/2012

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
2680 East Lansing Drive
East Lansing, MI 48823

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

Report Summary

Lab Sample ID(s): S51869.01-S51869.05
Project: 12990-Former Building 9, Delphi Flint
Collected Date: 03/13/2012
Submitted Date/Time: 03/14/2012 13:15
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 RL.
Samples are held by the lab for 30 days from the sample submittal 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.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (5 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S51869.01	SB-104 (03/13/2012) (07-08)	Soil	03/13/2012 13:21
S51869.02	SB-104 (03/13/2012) (16-17)	Soil	03/13/2012 13:53
S51869.03	DUP-2 (03/13/2012)	Soil	03/13/2012 00:01
S51869.04	Field Blank (03/13/2012)	Methanol	03/13/2012 09:30
S51869.05	Trip Blank (03/13/2012)	Methanol	03/13/2012 09:10



Analytical Laboratory Report

Lab Sample ID: S51869.01
 Sample Tag: SB-104 (03/13/2012) (07-08)
 Collected Date/Time: 03/13/2012 13:21
 Matrix: Soil
 COC Reference: 64800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.0	IR
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/15/12 22:51	EMR		
Extraction, PCB	Completed			3550B	03/15/12 10:55	CCM		
Mercury Digestion	Completed			7471A	03/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	03/19/12 01:00	SLR		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/20/12 12:05	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/16/12 10:40	JDP	57-12-5	
Total Solids	94	%	1	Std M 2540 B	03/14/12 12:48	WAR		

Metals

Arsenic	0.66	mg/kg	0.10	6020	03/19/12 12:55	SLS	7440-38-2	
Barium	6.64	mg/kg	1.0	6020	03/19/12 12:55	SLS	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/19/12 12:55	SLS	7440-43-9	
Chromium	0.70	mg/kg	0.50	6020	03/19/12 12:55	SLS	7440-47-3	
Copper	2.07	mg/kg	1.0	6020	03/19/12 12:55	SLS	7440-50-8	
Lead	1.73	mg/kg	0.30	6020	03/19/12 12:55	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/15/12 15:42	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/19/12 12:55	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/19/12 12:55	SLS	7440-22-4	
Zinc	3.21	mg/kg	1.0	6020	03/19/12 12:55	SLS	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/15/12 12:16	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/15/12 12:16	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/15/12 12:16	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/15/12 12:16	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/15/12 12:16	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/15/12 12:16	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/15/12 12:16	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51869.01 (continued)

Sample Tag: SB-104 (03/13/2012) (07-08)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/19/12 17:01	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/19/12 17:01	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/19/12 17:01	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/19/12 17:01	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 17:01	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 17:01	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 17:01	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/19/12 17:01	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51869.01 (continued)
 Sample Tag: SB-104 (03/13/2012) (07-08)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:01	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	8260B/5035	03/19/12 18:12	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/19/12 18:12	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/19/12 18:12	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	8260B/5035	03/19/12 18:12	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	860	8260B/5035	03/19/12 18:12	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/19/12 18:12	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/19/12 18:12	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:12	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/19/12 18:12	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/19/12 18:12	WAT	109-99-9	
Chloroform	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/19/12 18:12	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/19/12 18:12	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	56-23-5	
Benzene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/19/12 18:12	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	8260B/5035	03/19/12 18:12	WAT	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51869.01 (continued)
Sample Tag: SB-104 (03/13/2012) (07-08)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT		
o-Xylene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	95-47-6	
Styrene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/19/12 18:12	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 18:12	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	60	8260B/5035	03/19/12 18:12	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	8260B/5035	03/19/12 18:12	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/19/12 18:12	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	380	8260B/5035	03/19/12 18:12	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	380	8260B/5035	03/19/12 18:12	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	380	8260B/5035	03/19/12 18:12	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	380	8260B/5035	03/19/12 18:12	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51869.02
 Sample Tag: SB-104 (03/13/2012) (16-17)
 Collected Date/Time: 03/13/2012 13:53
 Matrix: Soil
 COC Reference: 64800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.0	IR
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/15/12 22:51	EMR		
Extraction, PCB	Completed			3550B	03/15/12 10:55	CCM		
Mercury Digestion	Completed			7471A	03/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	03/19/12 01:00	SLR		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/20/12 12:15	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/16/12 10:48	JDP	57-12-5	
Total Solids	80	%	1	Std M 2540 B	03/14/12 12:48	WAR		

Metals

Arsenic	2.01	mg/kg	0.10	6020	03/19/12 12:58	SLS	7440-38-2	
Barium	31.2	mg/kg	1.0	6020	03/19/12 12:58	SLS	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/19/12 12:58	SLS	7440-43-9	
Chromium	5.63	mg/kg	0.50	6020	03/19/12 12:58	SLS	7440-47-3	
Copper	9.96	mg/kg	1.0	6020	03/19/12 12:58	SLS	7440-50-8	
Lead	6.74	mg/kg	0.30	6020	03/19/12 12:58	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/15/12 15:38	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/19/12 12:58	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/19/12 12:58	SLS	7440-22-4	
Zinc	26.5	mg/kg	1.0	6020	03/19/12 12:58	SLS	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/15/12 12:27	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/15/12 12:27	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/15/12 12:27	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/15/12 12:27	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/15/12 12:27	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/15/12 12:27	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/15/12 12:27	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51869.02 (continued)

Sample Tag: SB-104 (03/13/2012) (16-17)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/19/12 17:36	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/19/12 17:36	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/19/12 17:36	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/19/12 17:36	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 17:36	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 17:36	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 17:36	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/19/12 17:36	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51869.02 (continued)
Sample Tag: SB-104 (03/13/2012) (16-17)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 17:36	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/19/12 18:31	WAT	60-29-7	
Acetone	Not detected	ug/kg	2,000	8260B/5035	03/19/12 18:31	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/19/12 18:31	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/19/12 18:31	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,200	8260B/5035	03/19/12 18:31	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:31	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:31	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/19/12 18:31	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:31	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	75-34-3	
cis-1,2-Dichloroethene	120	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	2,000	8260B/5035	03/19/12 18:31	WAT	109-99-9	
Chloroform	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/19/12 18:31	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	8260B/5035	03/19/12 18:31	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	56-23-5	
Benzene	210	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:31	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	10061-01-5	
Toluene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/19/12 18:31	WAT	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51869.02 (continued)
Sample Tag: SB-104 (03/13/2012) (16-17)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT		
o-Xylene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	95-47-6	
Styrene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	8260B/5035	03/19/12 18:31	WAT	98-82-8	
Bromoform	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:31	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	80	8260B/5035	03/19/12 18:31	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	500	8260B/5035	03/19/12 18:31	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:31	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	8260B/5035	03/19/12 18:31	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	8260B/5035	03/19/12 18:31	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	510	8260B/5035	03/19/12 18:31	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	510	8260B/5035	03/19/12 18:31	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51869.03
 Sample Tag: DUP-2 (03/13/2012)
 Collected Date/Time: 03/13/2012 00:01
 Matrix: Soil
 COC Reference: 64800

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.0	IR
1	8oz Glass	None	Yes	5.0	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3550B	03/15/12 22:51	EMR		
Extraction, PCB	Completed			3550B	03/15/12 10:55	CCM		
Mercury Digestion	Completed			7471A	03/15/12 13:00	JRH		
Metal Digestion	Completed			3050B	03/19/12 01:00	SLR		

Inorganics

Chromium VI	Not detected	mg/kg	1	3500-Cr B	03/20/12 12:35	JKB	18540-29-9	
Cyanide	Not detected	mg/kg	0.15	335.4/4500-CN-E	03/16/12 10:50	JDP	57-12-5	
Total Solids	78	%	1	Std M 2540 B	03/14/12 12:48	WAR		

Metals

Arsenic	1.87	mg/kg	0.10	6020	03/19/12 13:02	SLS	7440-38-2	
Barium	36.5	mg/kg	1.0	6020	03/19/12 13:02	SLS	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	6020	03/19/12 13:02	SLS	7440-43-9	
Chromium	7.83	mg/kg	0.50	6020	03/19/12 13:02	SLS	7440-47-3	
Copper	14.4	mg/kg	1.0	6020	03/19/12 13:02	SLS	7440-50-8	
Lead	7.56	mg/kg	0.30	6020	03/19/12 13:02	SLS	7439-92-1	
Mercury	Not detected	mg/kg	0.050	7471A	03/15/12 15:40	JRT	7439-97-6	
Selenium	Not detected	mg/kg	0.50	6020	03/19/12 13:02	SLS	7782-49-2	
Silver	Not detected	mg/kg	0.20	6020	03/19/12 13:02	SLS	7440-22-4	
Zinc	31.6	mg/kg	1.0	6020	03/19/12 13:02	SLS	7440-66-6	

Organics - PCBs/Pesticides

PCB List								
PCB-1016	Not detected	ug/kg	330	8082A	03/15/12 12:37	JANB	12674-11-2	
PCB-1242	Not detected	ug/kg	330	8082A	03/15/12 12:37	JANB	53469-21-9	
PCB-1221	Not detected	ug/kg	330	8082A	03/15/12 12:37	JANB	11104-28-2	
PCB-1232	Not detected	ug/kg	330	8082A	03/15/12 12:37	JANB	11141-16-5	
PCB-1248	Not detected	ug/kg	330	8082A	03/15/12 12:37	JANB	12672-29-6	
PCB-1254	Not detected	ug/kg	330	8082A	03/15/12 12:37	JANB	11097-69-1	
PCB-1260	Not detected	ug/kg	330	8082A	03/15/12 12:37	JANB	11096-82-5	

Organics - Semi-Volatiles

Semi-Volatile Organics - MDEQ

Acenaphthene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	50-32-8	



Analytical Laboratory Report

Lab Sample ID: S51869.03 (continued)

Sample Tag: DUP-2 (03/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
bis(2-Chloroethoxy)methane	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	85-68-7	
4-Chloroaniline	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/kg	280	8270C	03/19/12 18:09	PL	59-50-7	
2-Chlorophenol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	7005-72-3	
Chrysene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	218-01-9	
p,m-Cresol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	3/4-Cresol	
o-Cresol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	53-70-3	
Dibenzofuran	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/kg	2,000	8270C	03/19/12 18:09	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	120-83-2	
Diethyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/kg	830	8270C	03/19/12 18:09	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/kg	830	8270C	03/19/12 18:09	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	117-84-0	
Fluoranthene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	77-47-4	
Hexachloroethane	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	67-72-1	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	193-39-5	
Isophorone	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	91-20-3	
2-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 18:09	PL	88-74-4	
3-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 18:09	PL	99-09-2	
4-Nitroaniline	Not detected	ug/kg	830	8270C	03/19/12 18:09	PL	100-01-6	
Nitrobenzene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	98-95-3	
2-Nitrophenol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	88-75-5	
4-Nitrophenol	Not detected	ug/kg	830	8270C	03/19/12 18:09	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	621-64-7	



Analytical Laboratory Report

Lab Sample ID: S51869.03 (continued)

Sample Tag: DUP-2 (03/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Pentachlorophenol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	87-86-5	
Phenanthrene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	85-01-8	
Phenol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	108-95-2	
Pyrene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/kg	330	8270C	03/19/12 18:09	PL	88-06-2	
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	300	8260B/5035	03/19/12 18:51	WAT	60-29-7	
Acetone	Not detected	ug/kg	2,000	8260B/5035	03/19/12 18:51	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	400	8260B/5035	03/19/12 18:51	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	8260B/5035	03/19/12 18:51	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	1,300	8260B/5035	03/19/12 18:51	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:51	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:51	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	300	8260B/5035	03/19/12 18:51	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:51	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	75-34-3	
cis-1,2-Dichloroethene	130	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	2,000	8260B/5035	03/19/12 18:51	WAT	109-99-9	
Chloroform	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	8260B/5035	03/19/12 18:51	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	4,000	8260B/5035	03/19/12 18:51	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	56-23-5	
Benzene	210	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:51	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	10061-01-5	
Toluene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	30	8260B/5035	03/19/12 18:51	WAT	106-93-4	M

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51869.03 (continued)

Sample Tag: DUP-2 (03/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Chlorobenzene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	630-20-6	
Ethylbenzene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT		
o-Xylene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	95-47-6	
Styrene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	400	8260B/5035	03/19/12 18:51	WAT	98-82-8	
Bromoform	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	8260B/5035	03/19/12 18:51	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	90	8260B/5035	03/19/12 18:51	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	500	8260B/5035	03/19/12 18:51	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	8260B/5035	03/19/12 18:51	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	560	8260B/5035	03/19/12 18:51	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	560	8260B/5035	03/19/12 18:51	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	560	8260B/5035	03/19/12 18:51	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	560	8260B/5035	03/19/12 18:51	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51869.04
 Sample Tag: Field Blank (03/13/2012)
 Collected Date/Time: 03/13/2012 09:30
 Matrix: Methanol
 COC Reference: 64800

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	CAS #	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	8260B/5035	03/19/12 19:11	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/19/12 19:11	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/19/12 19:11	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	8260B/5035	03/19/12 19:11	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	750	8260B/5035	03/19/12 19:11	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:11	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:11	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	8260B/5035	03/19/12 19:11	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:11	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/19/12 19:11	WAT	109-99-9	
Chloroform	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/19/12 19:11	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/19/12 19:11	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:11	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	8260B/5035	03/19/12 19:11	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	630-20-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51869.04 (continued)

Sample Tag: Field Blank (03/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT		
o-Xylene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/19/12 19:11	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:11	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:11	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:11	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:11	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/19/12 19:11	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/19/12 19:11	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	330	8260B/5035	03/19/12 19:11	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	330	8260B/5035	03/19/12 19:11	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51869.05
 Sample Tag: Trip Blank (03/13/2012)
 Collected Date/Time: 03/13/2012 09:10
 Matrix: Methanol
 COC Reference: 64800

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	CAS #	Flags
Organics - Volatiles								
Volatile Organics 5035								
Diethyl ether	Not detected	ug/kg	200	8260B/5035	03/19/12 19:30	WAT	60-29-7	
Acetone	Not detected	ug/kg	1,000	8260B/5035	03/19/12 19:30	WAT	67-64-1	
Methyl iodide	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	74-88-4	
Carbon disulfide	Not detected	ug/kg	300	8260B/5035	03/19/12 19:30	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	8260B/5035	03/19/12 19:30	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/kg	750	8260B/5035	03/19/12 19:30	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:30	WAT	75-71-8	
Chloromethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:30	WAT	74-87-3	
Vinyl chloride	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	75-01-4	
Bromomethane	Not detected	ug/kg	200	8260B/5035	03/19/12 19:30	WAT	74-83-9	
Chloroethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:30	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	75-35-4	
Methylene chloride	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/kg	1,000	8260B/5035	03/19/12 19:30	WAT	109-99-9	
Chloroform	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	67-66-3	
Bromochloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	8260B/5035	03/19/12 19:30	WAT	108-10-1	
2-Hexanone	Not detected	ug/kg	3,000	8260B/5035	03/19/12 19:30	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	56-23-5	
Benzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	107-06-2	
Trichloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	75-27-4	
Dibromomethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:30	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	10061-01-5	
Toluene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/kg	20	8260B/5035	03/19/12 19:30	WAT	106-93-4	M
Chlorobenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	630-20-6	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S51869.05 (continued)

Sample Tag: Trip Blank (03/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Ethylbenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	100-41-4	
p,m-Xylene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT		
o-Xylene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	95-47-6	
Styrene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/kg	300	8260B/5035	03/19/12 19:30	WAT	98-82-8	
Bromoform	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	103-65-1	
Bromobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	8260B/5035	03/19/12 19:30	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/kg	50	8260B/5035	03/19/12 19:30	WAT	104-51-8	
Hexachloroethane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:30	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	8260B/5035	03/19/12 19:30	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/19/12 19:30	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	8260B/5035	03/19/12 19:30	WAT	87-61-6	
Naphthalene	Not detected	ug/kg	330	8260B/5035	03/19/12 19:30	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/kg	330	8260B/5035	03/19/12 19:30	WAT	91-57-6	



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C.O.C. PAGE # 1 OF 1

64800

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Mike Smith + Steve Lutzko
 COMPANY: Applied EcoSystems
 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.:
 E-MAIL ADDRESS: slutzko@appliedecosystems.com QUOTE NO.:

CONTACT NAME: _____ SAME
 COMPANY: RACER Trust
 ADDRESS: _____
 CITY: _____ STATE: _____ ZIP CODE: _____
 PHONE NO.: _____ FAX NO.: _____ P.O. NO.: 128083 Task 1

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: 12990-Former Building 9, Delphi Flint SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / Josh Adams
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)						SPECIAL INSTRUCTIONS/NOTES
VOCs	SVOCs	PCBs	ML ID Metals	Cyanide	Hex Chromium	

MATRIX CODE: GW=GROUNDWATER SL=SLUDGE WW=WASTEWATER O=OIL S=SOIL A=AIR L=LIQUID W=WASTE SD=SOLID M=MISC
 # Containers & Preservatives

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOCs	SVOCs	PCBs	ML ID Metals	Cyanide	Hex Chromium
	DATE	TIME																
51869.01	03/13/2012	13:21	SB-104 (03/13/2012) (07-08)	S	2	1							X	X	X	X	X	X
.02	03/13/2012	13:53	SB-104 (03/13/2012) (16-17)	S	2	1							X	X	X	X	X	X
.03	03/13/2012	—	DUP-2 (03/13/2012)	S	2	1							X	X	X	X	X	X
.04	03/13/2012	9:30	Field Blank (03/13/2012)	S	2								X					
.05	03/13/2012	9:10	Trip Blank (03/13/2012)	S	2								X					

RELINQUISHED BY: Josh Adams DATE: 3/14/12 TIME: 9:15
 RECEIVED BY: E. Fridge DATE: 3/14/12 TIME: 9:15
 RELINQUISHED BY: E. Fridge DATE: 3/14/12 TIME: 12:00
 RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: 3/14/12 TIME: 13:15
 RECEIVED BY: _____ DATE: 14 APR 12 TIME: 13:15
 SEAL NO.: _____ SEAL INTACT YES NO INITIALS: _____ NOTES: _____ TEMP. ON ARRIVAL: 50
 SEAL NO.: _____ SEAL INTACT YES NO INITIALS: _____

PLEASE NOTE: SIGNING ACKNOWLEDGES ACCEPTANCE OF TERMS & CONDITIONS ON REVERSE SIDE



Analytical Laboratory Report

Report ID: S51984.01(01)
Generated on 04/04/2012

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
2680 East Lansing Drive
East Lansing, MI 48823

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

Report Summary

Lab Sample ID(s): S51984.01-S51984.07
Project: 12990-Former Building 9, Delphi - Flint
Collected Date: 03/26/2012
Submitted Date/Time: 03/27/2012 10:46
Sampled by: Josh Adams
P.O. #: PO127976

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 RL.
Samples are held by the lab for 30 days from the sample submittal 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.

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#L11-184), WBENC (#2005110032)
Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814), NELAC FL (#E871045)
Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S51984.01	MW-1005 (03/07/2012)	Groundwater	03/26/2012 12:11
S51984.02	MW-1015 (03/07/2012)	Groundwater	03/26/2012 13:47
S51984.03	MW-1025 (03/08/2012)	Groundwater	03/26/2012 15:18
S51984.04	MW-1035 (03/13/2012)	Groundwater	03/26/2012 16:43
S51984.05	DUP (03/26/2012)	Groundwater	03/26/2012 12:11
S51984.06	Trip Blank (03/26/2012)	Groundwater	03/26/2012 08:31
S51984.07	Field Blank (03/26/2012)	Groundwater	03/26/2012 10:27



Analytical Laboratory Report

Lab Sample ID: S51984.01
 Sample Tag: MW-1005 (03/07/2012)
 Collected Date/Time: 03/26/2012 12:11
 Matrix: Groundwater
 COC Reference: 64798

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
2	40ml Glass	H2SO4	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
2	500ml Plastic	None	Yes	4.6	IR
1	250ml Plastic	H2SO4	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	03/28/12 21:49	EMR		
Extraction, PCB	Completed			3510C	03/27/12 16:30	CCM		
Mercury Digestion	Completed			245.1	03/28/12 11:30	JRH		
Metal Digestion	Completed			3015A	03/29/12 01:00	SLR		

Inorganics

Alkalinity as CaCO3	438	mg/L	2	2320B	03/28/12 13:20	JKB		
Ammonia-N	Not detected	mg/L	0.02	4500-NH3 D	03/28/12 15:52	MJC	7664-41-7	
Chloride	5	mg/L	5	300.0	03/28/12 06:36	JDP	16887-00-6	
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	03/27/12 11:35	JKB	18540-29-9	
Hardness	290	mg/L	1	2340 C	03/28/12 15:20	JKB		
Nitrate-N	Not detected	mg/L	0.5	300.0	03/28/12 06:36	JDP	14797-55-8	
Nitrite-N	Not detected	mg/L	0.5	300.0	03/28/12 06:36	JDP	14797-65-0	
Sulfate	19	mg/L	5	300.0	03/28/12 06:36	JDP	14808-79-8	
TOC	4.0	mg/L	1	EPA 415.1	04/02/12 18:27	JKB		
Total Dissolved Solids	468	mg/L	1	2540C	03/28/12 13:00	RGS		

Metals

Arsenic	Not detected	mg/L	0.002	200.8	03/29/12 14:12	SLS	7440-38-2	
Barium	0.048	mg/L	0.005	200.8	03/29/12 14:12	SLS	7440-39-3	
Cadmium	Not detected	mg/L	0.0005	200.8	03/29/12 14:12	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/29/12 14:12	SLS	7440-47-3	
Copper	Not detected	mg/L	0.004	200.8	03/29/12 14:12	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	03/29/12 14:12	SLS	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1	03/28/12 14:48	JRT	7439-97-6	
Selenium	0.006	mg/L	0.005	200.8	03/29/12 14:12	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/29/12 14:12	SLS	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	03/29/12 14:12	SLS	7440-66-6	

Organics - PCBs/Pesticides

PCB

PCB-1016	Not detected	ug/L	0.1	608	03/28/12 12:34	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	03/28/12 12:34	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	03/28/12 12:34	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	03/28/12 12:34	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	03/28/12 12:34	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	03/28/12 12:34	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	03/28/12 12:34	JANB	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S51984.01 (continued)

Sample Tag: MW-1005 (03/07/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
PCB (continued)								
PCB, Total	Not detected	ug/L	0.1	608	03/28/12 12:34	JANB	1336-36-3	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	03/29/12 14:31	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	03/29/12 14:31	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	03/29/12 14:31	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	03/29/12 14:31	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	03/29/12 14:31	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	03/29/12 14:31	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	03/29/12 14:31	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	03/29/12 14:31	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	03/29/12 14:31	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	03/29/12 14:31	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	03/29/12 14:31	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	67-72-1	



Analytical Laboratory Report

Lab Sample ID: S51984.01 (continued)

Sample Tag: MW-1005 (03/07/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	03/29/12 14:31	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 14:31	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 14:31	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 14:31	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	03/29/12 14:31	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	03/29/12 14:31	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	03/29/12 14:31	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	03/29/12 14:31	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/31/12 05:26	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/31/12 05:26	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/31/12 05:26	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/31/12 05:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	75-34-3	
cis-1,2-Dichloroethene	3	ug/L	1	8260B	03/31/12 05:26	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/31/12 05:26	WAT	109-99-9	
Chloroform	1	ug/L	1	8260B	03/31/12 05:26	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/31/12 05:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/31/12 05:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S51984.01 (continued)

Sample Tag: MW-1005 (03/07/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichloroethene	11	ug/L	1	8260B	03/31/12 05:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/31/12 05:26	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:26	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/31/12 05:26	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51984.02
 Sample Tag: MW-1015 (03/07/2012)
 Collected Date/Time: 03/26/2012 13:47
 Matrix: Groundwater
 COC Reference: 64798

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
2	40ml Glass	H2SO4	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
2	500ml Plastic	None	Yes	4.6	IR
1	250ml Plastic	H2SO4	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	03/28/12 21:49	EMR		
Extraction, PCB	Completed			3510C	03/27/12 16:30	CCM		
Mercury Digestion	Completed			245.1	03/28/12 11:30	JRH		
Metal Digestion	Completed			3015A	03/29/12 01:00	SLR		

Inorganics

Alkalinity as CaCO3	352	mg/L	2	2320B	03/28/12 13:30	JKB		
Ammonia-N	Not detected	mg/L	0.02	4500-NH3 D	03/28/12 15:57	MJC	7664-41-7	
Chloride	12	mg/L	5	300.0	03/28/12 06:48	JDP	16887-00-6	
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	03/27/12 11:45	JKB	18540-29-9	
Hardness	187	mg/L	1	2340 C	03/28/12 15:30	JKB		
Nitrate-N	0.8	mg/L	0.5	300.0	03/28/12 06:48	JDP	14797-55-8	
Nitrite-N	Not detected	mg/L	0.5	300.0	03/28/12 06:48	JDP	14797-65-0	
Sulfate	18	mg/L	5	300.0	03/28/12 06:48	JDP	14808-79-8	
TOC	1.2	mg/L	1	EPA 415.1	04/02/12 18:47	JKB		
Total Dissolved Solids	316	mg/L	1	2540C	03/28/12 13:00	RGS		

Metals

Arsenic	Not detected	mg/L	0.002	200.8	03/29/12 14:15	SLS	7440-38-2	
Barium	0.028	mg/L	0.005	200.8	03/29/12 14:15	SLS	7440-39-3	
Cadmium	Not detected	mg/L	0.0005	200.8	03/29/12 14:15	SLS	7440-43-9	
Chromium	Not detected	mg/L	0.005	200.8	03/29/12 14:15	SLS	7440-47-3	
Copper	Not detected	mg/L	0.004	200.8	03/29/12 14:15	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	03/29/12 14:15	SLS	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1	03/28/12 14:50	JRT	7439-97-6	
Selenium	0.006	mg/L	0.005	200.8	03/29/12 14:15	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/29/12 14:15	SLS	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	03/29/12 14:15	SLS	7440-66-6	

Organics - PCBs/Pesticides

PCB

PCB-1016	Not detected	ug/L	0.1	608	03/28/12 12:44	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	03/28/12 12:44	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	03/28/12 12:44	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	03/28/12 12:44	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	03/28/12 12:44	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	03/28/12 12:44	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	03/28/12 12:44	JANB	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S51984.02 (continued)

Sample Tag: MW-1015 (03/07/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
PCB (continued)								
PCB, Total	Not detected	ug/L	0.1	608	03/28/12 12:44	JANB	1336-36-3	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	03/29/12 15:06	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	03/29/12 15:06	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	03/29/12 15:06	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	03/29/12 15:06	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	03/29/12 15:06	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	03/29/12 15:06	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	03/29/12 15:06	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	03/29/12 15:06	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	03/29/12 15:06	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	03/29/12 15:06	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	03/29/12 15:06	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	67-72-1	



Analytical Laboratory Report

Lab Sample ID: S51984.02 (continued)

Sample Tag: MW-1015 (03/07/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	03/29/12 15:06	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 15:06	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 15:06	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 15:06	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	03/29/12 15:06	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	03/29/12 15:06	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	03/29/12 15:06	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	03/29/12 15:06	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/31/12 05:46	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/31/12 05:46	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/31/12 05:46	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/31/12 05:46	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/31/12 05:46	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/31/12 05:46	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/31/12 05:46	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S51984.02 (continued)

Sample Tag: MW-1015 (03/07/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichloroethene	7	ug/L	1	8260B	03/31/12 05:46	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/31/12 05:46	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 05:46	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/31/12 05:46	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51984.03
 Sample Tag: MW-1025 (03/08/2012)
 Collected Date/Time: 03/26/2012 15:18
 Matrix: Groundwater
 COC Reference: 64798

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
2	40ml Glass	H2SO4	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
2	500ml Plastic	None	Yes	4.6	IR
1	250ml Plastic	H2SO4	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	03/28/12 21:49	EMR		
Extraction, PCB	Completed			3510C	03/27/12 16:30	CCM		
Mercury Digestion	Completed			245.1	03/28/12 11:30	JRH		
Metal Digestion	Completed			3015A	03/29/12 01:00	SLR		

Inorganics

Alkalinity as CaCO3	420	mg/L	2	2320B	03/28/12 13:40	JKB		
Ammonia-N	Not detected	mg/L	0.02	4500-NH3 D	03/28/12 16:15	MJC	7664-41-7	
Chloride	25	mg/L	5	300.0	03/28/12 06:59	JDP	16887-00-6	
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	03/27/12 11:55	JKB	18540-29-9	
Hardness	389	mg/L	1	2340 C	03/28/12 15:40	JKB		
Nitrate-N	1.7	mg/L	0.5	300.0	03/28/12 06:59	JDP	14797-55-8	
Nitrite-N	Not detected	mg/L	0.5	300.0	03/28/12 06:59	JDP	14797-65-0	
Sulfate	42	mg/L	5	300.0	03/28/12 06:59	JDP	14808-79-8	
TOC	1.4	mg/L	1	EPA 415.1	04/02/12 19:07	JKB		
Total Dissolved Solids	488	mg/L	1	2540C	03/28/12 13:00	RGS		

Metals

Arsenic	0.002	mg/L	0.002	200.8	03/29/12 14:19	SLS	7440-38-2	
Barium	0.065	mg/L	0.005	200.8	03/29/12 14:19	SLS	7440-39-3	
Cadmium	Not detected	mg/L	0.0005	200.8	03/29/12 14:19	SLS	7440-43-9	
Chromium	0.018	mg/L	0.005	200.8	03/29/12 14:19	SLS	7440-47-3	
Copper	Not detected	mg/L	0.004	200.8	03/29/12 14:19	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	03/29/12 14:19	SLS	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1	03/28/12 14:57	JRT	7439-97-6	
Selenium	0.008	mg/L	0.005	200.8	03/29/12 14:19	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/29/12 14:19	SLS	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	03/29/12 14:19	SLS	7440-66-6	

Organics - PCBs/Pesticides

PCB

PCB-1016	Not detected	ug/L	0.1	608	03/28/12 12:55	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	03/28/12 12:55	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	03/28/12 12:55	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	03/28/12 12:55	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	03/28/12 12:55	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	03/28/12 12:55	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	03/28/12 12:55	JANB	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S51984.03 (continued)

Sample Tag: MW-1025 (03/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
PCB (continued)								
PCB, Total	Not detected	ug/L	0.1	608	03/28/12 12:55	JANB	1336-36-3	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	03/29/12 15:40	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	03/29/12 15:40	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	03/29/12 15:40	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	03/29/12 15:40	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	03/29/12 15:40	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	03/29/12 15:40	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	03/29/12 15:40	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	03/29/12 15:40	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	03/29/12 15:40	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	03/29/12 15:40	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	03/29/12 15:40	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	67-72-1	



Analytical Laboratory Report

Lab Sample ID: S51984.03 (continued)

Sample Tag: MW-1025 (03/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	03/29/12 15:40	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 15:40	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 15:40	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 15:40	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	03/29/12 15:40	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	03/29/12 15:40	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	03/29/12 15:40	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	03/29/12 15:40	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/31/12 06:06	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/31/12 06:06	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/31/12 06:06	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/31/12 06:06	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/31/12 06:06	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/31/12 06:06	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/31/12 06:06	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S51984.03 (continued)

Sample Tag: MW-1025 (03/08/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/31/12 06:06	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:06	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/31/12 06:06	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51984.04
 Sample Tag: MW-1035 (03/13/2012)
 Collected Date/Time: 03/26/2012 16:43
 Matrix: Groundwater
 COC Reference: 64798

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
2	40ml Glass	H2SO4	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
2	500ml Plastic	None	Yes	4.6	IR
1	250ml Plastic	H2SO4	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	03/28/12 21:49	EMR		
Extraction, PCB	Completed			3510C	03/27/12 16:30	CCM		
Mercury Digestion	Completed			245.1	03/28/12 11:30	JRH		
Metal Digestion	Completed			3015A	03/29/12 01:00	SLR		

Inorganics

Alkalinity as CaCO3	512	mg/L	2	2320B	03/28/12 13:45	JKB		
Ammonia-N	0.63	mg/L	0.02	4500-NH3 D	03/28/12 16:21	MJC	7664-41-7	
Chloride	7	mg/L	5	300.0	03/28/12 07:11	JDP	16887-00-6	
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	03/27/12 12:00	JKB	18540-29-9	
Hardness	502	mg/L	1	2340 C	03/28/12 15:45	JKB		
Nitrate-N	Not detected	mg/L	0.5	300.0	03/28/12 07:11	JDP	14797-55-8	
Nitrite-N	Not detected	mg/L	0.5	300.0	03/28/12 07:11	JDP	14797-65-0	
Sulfate	9	mg/L	5	300.0	03/28/12 07:11	JDP	14808-79-8	
TOC	10.1	mg/L	1	EPA 415.1	04/02/12 19:27	JKB		
Total Dissolved Solids	476	mg/L	1	2540C	03/28/12 13:00	RGS		

Metals

Arsenic	0.048	mg/L	0.002	200.8	03/29/12 14:22	SLS	7440-38-2	
Barium	0.243	mg/L	0.005	200.8	03/29/12 14:22	SLS	7440-39-3	
Cadmium	Not detected	mg/L	0.0005	200.8	03/29/12 14:22	SLS	7440-43-9	
Chromium	0.007	mg/L	0.005	200.8	03/29/12 14:22	SLS	7440-47-3	
Copper	Not detected	mg/L	0.004	200.8	03/29/12 14:22	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	03/29/12 14:22	SLS	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1	03/28/12 14:52	JRT	7439-97-6	
Selenium	Not detected	mg/L	0.005	200.8	03/29/12 14:22	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/29/12 14:22	SLS	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	03/29/12 14:22	SLS	7440-66-6	

Organics - PCBs/Pesticides

PCB

PCB-1016	Not detected	ug/L	0.1	608	03/29/12 13:41	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	03/29/12 13:41	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	03/29/12 13:41	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	03/29/12 13:41	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	03/29/12 13:41	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	03/29/12 13:41	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	03/29/12 13:41	JANB	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S51984.04 (continued)

Sample Tag: MW-1035 (03/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
PCB (continued)								
PCB, Total	Not detected	ug/L	0.1	608	03/29/12 13:41	JANB	1336-36-3	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	83-32-9	X
Acenaphthylene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	208-96-8	X
Anthracene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	120-12-7	X
Benzo(a)anthracene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	56-55-3	X
Benzo(b)fluoranthene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	205-99-2	X
Benzo(k)fluoranthene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	207-08-9	X
Benzo(ghi)perylene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	191-24-2	X
Benzo(a)pyrene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	50-32-8	X
bis(2-Chloroethoxy)methane	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	111-91-1	X
bis(2-Chloroethyl)ether	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	111-44-4	X
bis(2-Chloroisopropyl)ether	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	108-60-1	X
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	117-81-7	X
4-Bromophenyl phenyl ether	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	101-55-3	X
Butyl benzyl phthalate	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	85-68-7	X
4-Chloroaniline	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	106-47-8	X
2-Chloronaphthalene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	91-58-7	X
4-Chloro-3-methylphenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	59-50-7	X
2-Chlorophenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	95-57-8	X
4-Chlorophenyl phenyl ether	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	7005-72-3	X
Chrysene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	218-01-9	X
p,m-Cresol	Not detected	ug/L	26	8270C	03/29/12 21:55	PL	3/4-Cresol	X
o-Cresol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	95-48-7	X
Dibenzo(ah)anthracene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	53-70-3	X
Dibenzofuran	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	132-64-9	X
di-n-Butyl phthalate	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	84-74-2	X
1,2-Dichlorobenzene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	95-50-1	X
1,3-Dichlorobenzene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	541-73-1	X
1,4-Dichlorobenzene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	106-46-7	X
3,3'-Dichlorobenzidine	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	91-94-1	X
2,4-Dichlorophenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	120-83-2	X
Diethyl phthalate	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	84-66-2	X
2,4-Dimethylphenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	105-67-9	X
Dimethyl phthalate	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	131-11-3	X
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	03/29/12 21:55	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	03/29/12 21:55	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	121-14-2	X
2,6-Dinitrotoluene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	606-20-2	X
1,2-Diphenylhydrazine	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	122-66-7	X
di-n-Octyl phthalate	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	117-84-0	X
Fluoranthene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	206-44-0	X
Fluorene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	86-73-7	X
Hexachlorobenzene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	118-74-1	X
Hexachlorobutadiene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	87-68-3	X
Hexachlorocyclopentadiene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	77-47-4	X

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S51984.04 (continued)

Sample Tag: MW-1035 (03/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Hexachloroethane	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	67-72-1	X
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	193-39-5	X
Isophorone	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	78-59-1	X
2-Methylnaphthalene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	91-57-6	X
Naphthalene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	91-20-3	X
2-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 21:55	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 21:55	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 21:55	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	98-95-3	X
2-Nitrophenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	88-75-5	X
4-Nitrophenol	Not detected	ug/L	25	8270C	03/29/12 21:55	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	86-30-6	X
N-Nitrosodi-n-propylamine	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	621-64-7	X
Pentachlorophenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	87-86-5	X
Phenanthrene	13	ug/L	13	8270C	03/29/12 21:55	PL	85-01-8	X
Phenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	108-95-2	X
Pyrene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	129-00-0	X
1,2,4-Trichlorobenzene	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	120-82-1	X
2,4,5-Trichlorophenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	95-95-4	X
2,4,6-Trichlorophenol	Not detected	ug/L	13	8270C	03/29/12 21:55	PL	88-06-2	X
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/31/12 06:26	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/31/12 06:26	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/31/12 06:26	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/31/12 06:26	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/31/12 06:26	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/31/12 06:26	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/31/12 06:26	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	56-23-5	

X-Elevated reporting limit due to matrix interference



Analytical Laboratory Report

Lab Sample ID: S51984.04 (continued)

Sample Tag: MW-1035 (03/13/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Benzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/31/12 06:26	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:26	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/31/12 06:26	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51984.05
 Sample Tag: DUP (03/26/2012)
 Collected Date/Time: 03/26/2012 12:11
 Matrix: Groundwater
 COC Reference: 64798

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
2	40ml Glass	H2SO4	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
2	500ml Plastic	None	Yes	4.6	IR
1	250ml Plastic	H2SO4	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Extraction / Prep.

BNA Extraction	Completed			3510C	03/28/12 21:49	EMR		
Extraction, PCB	Completed			3510C	03/27/12 16:30	CCM		
Mercury Digestion	Completed			245.1	03/28/12 11:30	JRH		
Metal Digestion	Completed			3015A	03/29/12 01:00	SLR		

Inorganics

Alkalinity as CaCO3	508	mg/L	2	2320B	03/28/12 13:50	JKB		
Ammonia-N	0.64	mg/L	0.02	4500-NH3 D	03/28/12 16:31	MJC	7664-41-7	
Chloride	7	mg/L	5	300.0	03/28/12 07:22	JDP	16887-00-6	
Chromium VI	Not detected	mg/L	0.02	3500-Cr B	03/27/12 12:05	JKB	18540-29-9	
Hardness	497	mg/L	1	2340 C	03/28/12 15:50	JKB		
Nitrate-N	Not detected	mg/L	0.5	300.0	03/28/12 07:22	JDP	14797-55-8	
Nitrite-N	Not detected	mg/L	0.5	300.0	03/28/12 07:22	JDP	14797-65-0	
Sulfate	10	mg/L	5	300.0	03/28/12 07:22	JDP	14808-79-8	
TOC	11.2	mg/L	1	EPA 415.1	04/02/12 19:47	JKB		
Total Dissolved Solids	500	mg/L	1	2540C	03/28/12 13:00	RGS		

Metals

Arsenic	0.050	mg/L	0.002	200.8	03/29/12 14:26	SLS	7440-38-2	
Barium	0.255	mg/L	0.005	200.8	03/29/12 14:26	SLS	7440-39-3	
Cadmium	Not detected	mg/L	0.0005	200.8	03/29/12 14:26	SLS	7440-43-9	
Chromium	0.006	mg/L	0.005	200.8	03/29/12 14:26	SLS	7440-47-3	
Copper	Not detected	mg/L	0.004	200.8	03/29/12 14:26	SLS	7440-50-8	
Lead	Not detected	mg/L	0.003	200.8	03/29/12 14:26	SLS	7439-92-1	
Mercury	Not detected	mg/L	0.0002	245.1	03/28/12 14:55	JRT	7439-97-6	
Selenium	0.006	mg/L	0.005	200.8	03/29/12 14:26	SLS	7782-49-2	
Silver	Not detected	mg/L	0.0005	200.8	03/29/12 14:26	SLS	7440-22-4	
Zinc	Not detected	mg/L	0.005	200.8	03/29/12 14:26	SLS	7440-66-6	

Organics - PCBs/Pesticides

PCB

PCB-1016	Not detected	ug/L	0.1	608	03/29/12 13:31	JANB	12674-11-2	
PCB-1221	Not detected	ug/L	0.1	608	03/29/12 13:31	JANB	11104-28-2	
PCB-1232	Not detected	ug/L	0.1	608	03/29/12 13:31	JANB	11141-16-5	
PCB-1242	Not detected	ug/L	0.1	608	03/29/12 13:31	JANB	53469-21-9	
PCB-1248	Not detected	ug/L	0.1	608	03/29/12 13:31	JANB	12672-29-6	
PCB-1254	Not detected	ug/L	0.1	608	03/29/12 13:31	JANB	11097-69-1	
PCB-1260	Not detected	ug/L	0.1	608	03/29/12 13:31	JANB	11096-82-5	



Analytical Laboratory Report

Lab Sample ID: S51984.05 (continued)

Sample Tag: DUP (03/26/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - PCBs/Pesticides (continued)								
PCB (continued)								
PCB, Total	Not detected	ug/L	0.1	608	03/29/12 13:31	JANB	1336-36-3	
Organics - Semi-Volatiles								
Semi-Volatile Organics - MDEQ								
Acenaphthene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	83-32-9	
Acenaphthylene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	208-96-8	
Anthracene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	56-55-3	
Benzo(b)fluoranthene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	205-99-2	
Benzo(k)fluoranthene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	207-08-9	
Benzo(ghi)perylene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	191-24-2	
Benzo(a)pyrene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	50-32-8	
bis(2-Chloroethoxy)methane	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	111-91-1	
bis(2-Chloroethyl)ether	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	111-44-4	
bis(2-Chloroisopropyl)ether	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	108-60-1	
bis(2-Ethylhexyl)phthalate	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	117-81-7	
4-Bromophenyl phenyl ether	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	101-55-3	
Butyl benzyl phthalate	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	85-68-7	
4-Chloroaniline	Not detected	ug/L	10	8270C	03/29/12 21:21	PL	106-47-8	
2-Chloronaphthalene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	91-58-7	
4-Chloro-3-methylphenol	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	59-50-7	
2-Chlorophenol	Not detected	ug/L	10	8270C	03/29/12 21:21	PL	95-57-8	
4-Chlorophenyl phenyl ether	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	7005-72-3	
Chrysene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	218-01-9	
p,m-Cresol	Not detected	ug/L	20	8270C	03/29/12 21:21	PL	3/4-Cresol	
o-Cresol	Not detected	ug/L	10	8270C	03/29/12 21:21	PL	95-48-7	
Dibenzo(ah)anthracene	Not detected	ug/L	2	8270C	03/29/12 21:21	PL	53-70-3	
Dibenzofuran	Not detected	ug/L	4	8270C	03/29/12 21:21	PL	132-64-9	
di-n-Butyl phthalate	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	84-74-2	
1,2-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	106-46-7	
3,3'-Dichlorobenzidine	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	91-94-1	
2,4-Dichlorophenol	Not detected	ug/L	10	8270C	03/29/12 21:21	PL	120-83-2	
Diethyl phthalate	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	84-66-2	
2,4-Dimethylphenol	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	105-67-9	
Dimethyl phthalate	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	131-11-3	
4,6-Dinitro-2-methylphenol	Not detected	ug/L	20	8270C	03/29/12 21:21	PL	534-52-1	
2,4-Dinitrophenol	Not detected	ug/L	25	8270C	03/29/12 21:21	PL	51-28-5	
2,4-Dinitrotoluene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	121-14-2	
2,6-Dinitrotoluene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	606-20-2	
1,2-Diphenylhydrazine	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	122-66-7	
di-n-Octyl phthalate	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	117-84-0	
Fluoranthene	Not detected	ug/L	1	8270C	03/29/12 21:21	PL	206-44-0	
Fluorene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	86-73-7	
Hexachlorobenzene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	118-74-1	
Hexachlorobutadiene	Not detected	ug/L	10	8270C	03/29/12 21:21	PL	87-68-3	
Hexachlorocyclopentadiene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	77-47-4	
Hexachloroethane	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	67-72-1	



Analytical Laboratory Report

Lab Sample ID: S51984.05 (continued)

Sample Tag: DUP (03/26/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Semi-Volatiles (continued)								
Semi-Volatile Organics - MDEQ (continued)								
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	8270C	03/29/12 21:21	PL	193-39-5	
Isophorone	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	78-59-1	
2-Methylnaphthalene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	91-57-6	
Naphthalene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	91-20-3	
2-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 21:21	PL	88-74-4	
3-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 21:21	PL	99-09-2	
4-Nitroaniline	Not detected	ug/L	25	8270C	03/29/12 21:21	PL	100-01-6	
Nitrobenzene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	98-95-3	
2-Nitrophenol	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	88-75-5	
4-Nitrophenol	Not detected	ug/L	25	8270C	03/29/12 21:21	PL	100-02-7	
N-Nitrosodiphenylamine	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	86-30-6	
N-Nitrosodi-n-propylamine	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	621-64-7	
Pentachlorophenol	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	87-86-5	
Phenanthrene	Not detected	ug/L	2	8270C	03/29/12 21:21	PL	85-01-8	
Phenol	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	108-95-2	
Pyrene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	129-00-0	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	120-82-1	
2,4,5-Trichlorophenol	Not detected	ug/L	5	8270C	03/29/12 21:21	PL	95-95-4	
2,4,6-Trichlorophenol	Not detected	ug/L	4	8270C	03/29/12 21:21	PL	88-06-2	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/31/12 06:47	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/31/12 06:47	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/31/12 06:47	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/31/12 06:47	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/31/12 06:47	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/31/12 06:47	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/31/12 06:47	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	107-06-2	



Analytical Laboratory Report

Lab Sample ID: S51984.05 (continued)

Sample Tag: DUP (03/26/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Trichloroethene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	110-57-6	
Dibromochloromethane	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/31/12 06:47	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 06:47	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/31/12 06:47	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51984.06
 Sample Tag: Trip Blank (03/26/2012)
 Collected Date/Time: 03/26/2012 08:31
 Matrix: Groundwater
 COC Reference: 64798

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
2	40ml Glass	H2SO4	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	500ml Plastic	None	Yes	4.6	IR
1	250ml Plastic	H2SO4	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	8260B	03/31/12 07:07	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/31/12 07:07	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/31/12 07:07	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/31/12 07:07	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/31/12 07:07	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/31/12 07:07	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/31/12 07:07	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	110-57-6	



Analytical Laboratory Report

Lab Sample ID: S51984.06 (continued)

Sample Tag: Trip Blank (03/26/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromochloromethane	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/31/12 07:07	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:07	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/31/12 07:07	WAT	91-57-6	



Analytical Laboratory Report

Lab Sample ID: S51984.07
 Sample Tag: Field Blank (03/26/2012)
 Collected Date/Time: 03/26/2012 10:27
 Matrix: Groundwater
 COC Reference: 64798

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	1L Amber	None	Yes	4.6	IR
2	40ml Glass	HCL	Yes	4.6	IR
2	40ml Glass	H2SO4	Yes	4.6	IR
1	125ml Plastic	HNO3	Yes	4.6	IR
1	500ml Plastic	None	Yes	4.6	IR
1	250ml Plastic	H2SO4	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	8260B	03/31/12 07:27	WAT	60-29-7	
Acetone	Not detected	ug/L	50	8260B	03/31/12 07:27	WAT	67-64-1	
Methyl iodide	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	74-88-4	
Carbon disulfide	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	75-15-0	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	1634-04-4	
Acrylonitrile	Not detected	ug/L	2	8260B	03/31/12 07:27	WAT	107-13-1	
2-Butanone (MEK)	Not detected	ug/L	25	8260B	03/31/12 07:27	WAT	78-93-3	
Dichlorodifluoromethane	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	75-71-8	
Chloromethane	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	74-87-3	
Vinyl chloride	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	75-01-4	
Bromomethane	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	74-83-9	
Chloroethane	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	75-00-3	
Trichlorofluoromethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	75-69-4	
1,1-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	75-35-4	
Methylene chloride	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	75-09-2	
trans-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	156-60-5	
1,1-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	75-34-3	
cis-1,2-Dichloroethene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	156-59-2	
Tetrahydrofuran	Not detected	ug/L	90	8260B	03/31/12 07:27	WAT	109-99-9	
Chloroform	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	67-66-3	
Bromochloromethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	74-97-5	
1,1,1-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	71-55-6	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	8260B	03/31/12 07:27	WAT	108-10-1	
2-Hexanone	Not detected	ug/L	50	8260B	03/31/12 07:27	WAT	591-78-6	
Carbon tetrachloride	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	56-23-5	
Benzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	71-43-2	
1,2-Dichloroethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	107-06-2	
Trichloroethene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	79-01-6	
1,2-Dichloropropane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	78-87-5	
Bromodichloromethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	75-27-4	
Dibromomethane	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	74-95-3	
cis-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	10061-01-5	
Toluene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	108-88-3	
trans-1,3-Dichloropropene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	10061-02-6	
1,1,2-Trichloroethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	79-00-5	
Tetrachloroethene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	127-18-4	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	110-57-6	



Analytical Laboratory Report

Lab Sample ID: S51984.07 (continued)

Sample Tag: Field Blank (03/26/2012)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	CAS #	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromochloromethane	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	124-48-1	
1,2-Dibromoethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	106-93-4	
Chlorobenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	108-90-7	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	630-20-6	
Ethylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	100-41-4	
p,m-Xylene	Not detected	ug/L	2	8260B	03/31/12 07:27	WAT		
o-Xylene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	95-47-6	
Styrene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	100-42-5	
Isopropylbenzene	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	98-82-8	
Bromoform	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	75-25-2	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	79-34-5	
1,2,3-Trichloropropane	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	96-18-4	
n-Propylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	103-65-1	
Bromobenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	108-86-1	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	108-67-8	
tert-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	98-06-6	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	95-63-6	
sec-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	135-98-8	
p-Isopropyltoluene	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	99-87-6	
1,3-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	106-46-7	
1,2-Dichlorobenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	95-50-1	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	526-73-8	
n-Butylbenzene	Not detected	ug/L	1	8260B	03/31/12 07:27	WAT	104-51-8	
Hexachloroethane	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	67-72-1	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	96-12-8	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	120-82-1	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	87-61-6	
Naphthalene	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	91-20-3	
2-Methylnaphthalene	Not detected	ug/L	5	8260B	03/31/12 07:27	WAT	91-57-6	



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C.O.C. PAGE # 1 OF 1

64798

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Mike Smith + Steve Lukow
 COMPANY: Applied EcoSystems
 ADDRESS: 64300 S. Saginaw St.
 CITY: Burton STATE: MI ZIP CODE: 48529
 PHONE NO.: 810-715-2525 FAX NO.: 810-715-2526 P.O. NO.: 127976
 E-MAIL ADDRESS: slukow@appliedecosystems.com QUOTE NO.:

CONTACT NAME: SAME
 COMPANY: RALER
 ADDRESS:
 CITY: STATE: ZIP CODE:
 PHONE NO.: FAX NO.: P.O. NO.: 128083

ANALYSIS (ATTACH LIST IF MORE SPACE REQUIRED)

PROJECT NO./NAME: 12990 - former building 9, Delphi - Flint SAMPLER(S) - PLEASE PRINT/SIGN NAME: Josh Adams / Josh Adams
 TURNAROUND TIME REQUIRED: 24 HR 48 HR 72 HR STANDARD OTHER
 DELIVERABLES REQUIRED: STANDARD LEVEL II LEVEL III OTHER

MATRIX CODE: GW-GROUNDWATER WW-WASTEWATER S-SOIL L-LIQUID SD-SOLID
 SL-SLUDGE O-OIL A-AIR W-WASTE M-MISC

Containers & Preservatives

VOCs
 SVOCs
 PCBs
 MI 10 Metals
 Cyanide
 Hex Chromium
 RALER Water
 Quality

SPECIAL INSTRUCTIONS/NOTES

MERIT LAB NO.	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCL	HNO3	H2SO4	NaOH	MeOH	OTHER	VOCs	SVOCs	PCBs	MI 10 Metals	Cyanide	Hex Chromium	RALER Water	Quality	SPECIAL INSTRUCTIONS/NOTES
	DATE	TIME																			
51984.01	03/26/2012	12:11	MW-1005 (03/07/2012)	GW	8	2	2	1	3				X	X	X	X	X	X	X	X	Task 6
.02		13:47	MW-1015 (03/08/2012)																		
.03		15:18	MW-1025 (03/07/2012)																		
.04		16:43	MW-1035 (03/13/2012)																		
.05		-	DVP (03/26/2012)																		
.06		8:31	Trip Blank (03/26/2012)																		
.07		10:27	Field Blank (03/26/2012)																		

RELINQUISHED BY: [Signature] DATE: 3/27/12 TIME: 10:40
 RECEIVED BY: _____ DATE: _____ TIME: _____
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RECEIVED BY: [Signature] DATE: 27 MAR 2012 TIME: 10:40
 SEAL NO. SEAL INTACT YES NO INITIALS: _____ NOTES: TEMP. ON ARRIVAL: 4.6
 SEAL NO. SEAL INTACT YES NO INITIALS: _____

Andy Ball <andyball.meritlabs@gmail.com>

 **Racer Building 9 Flint West**

Mike S <ae_mds@yahoo.com>

Tue, Mar 27, 2012 at 13:02

Reply-To: Mike S <ae_mds@yahoo.com>

To: "andyball@meritlabs.com" <andyball@meritlabs.com>

Andy - as discussed, this is the list of the "water quality parameters" for this project:

Alkalinity
Ammonia
Chloride
Nitrate/Nitrite
Sulfate
Hardness
TDS
TOC

Thank you

Mike Smith

Technical Services Manager

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