

DATA REPORT AND PROPOSED ADDITIONAL INVESTIGATION

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

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

DATE: July 9, 2013

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

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1.0 INTRODUCTION

Applied EcoSystems, Inc. (Æ) completed the additional site investigations at the RACER Trust Flint West Industrial Land - #12990 Site between April 25 and April 30, 2013 as outlined in the February 12, 2013 Data Report submitted to The United States Environmental Protection Agency (USEPA).

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 Site consists of concrete pavement, remaining after the demolition of a former manufacturing building. The majority of the Site is secured with a locked chain-link fence.

The exceptions to the approved USEPA Scope of Work are as follows:

- Borehole groundwater samples were not collected. Temporary well screens did not produce sufficient groundwater to properly develop and sample the wells using low-flow methods;
- In December 2012, MW-106S was installed at the southeast corner of the Site. The well did not produce sufficient groundwater for sampling. The January 13, 2013 Data Report indicated that a replacement well would be installed in this location. On April 25, 2013, Æ removed the casing and screen from the existing MW-106S, overdrilled the borehole, and installed the well two feet deeper than before. The well produced sufficient sample volume for development and analysis. Therefore, the well was named MW-106SR, and another replacement well was not installed;
- Some boring locations were revised slightly due to limited accessibility to Geoprobe drilling equipment (due to differing concrete slab elevations). In addition, the February 13, 2013 map indicated a proposed well northwest of the utility substation and another well near the MW-110S location. These two well locations were presented on the map in what were intended as approximate locations but were inadvertently not discussed in the text of the report. The intention was to install the wells after receipt of the analytical results from the soils investigation and groundwater sampling. The wells are scheduled to be installed by July 16, 2013 and sampled during the August, 2013 groundwater monitoring event;
- Investigations (including installation of two monitoring wells) were proposed for the City of Flint former “Chevy-in-the-Hole” site to the north. The investigations were not completed because the City of Flint has not yet granted access;

- The groundwater samples were proposed to be analyzed for 10 Michigan Department of Environmental Quality (MDEQ) metals in addition to Volatile Organic Compounds (VOCs) and Polynuclear Aromatic Compounds (PNAs). Arising from the fact that copper and zinc were not previously found at levels of concern on-site, and subsequent discussions regarding eliminating these metals, Æ mistakenly submitted the groundwater samples only for RCRA 8 metals analysis. This error was not discovered until after the laboratory disposed of the samples. Future analysis will include the proposed/approved Michigan 10 metals;
- The survey was not completed. Field to Finish has been unable to obtain benchmark information from the City of Flint. Interim financial management staff has not allowed access to the necessary historical engineering records. Field to Finish expects access to the needed records by July 1, 2013. Alternatively, Field to Finish indicated that other area engineering companies would be contacted in an attempt to collect the necessary USGS datum benchmark information.

2.0 INVESTIGATION ACTIVITIES COMPLETED

Administrative Matters

- Began process to obtain access to the City of Flint property to the north, commonly known as “Chevy-in-the-Hole” for the installation of two monitoring wells.

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

- Completed five soil borings and collected seven soil samples for VOCs analysis as proposed in the February, 2013 Data Report.

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

- MW106S was overdrilled, the screen was set two feet deeper, and the well was developed. Therefore, the well was named MW-106SR, and another replacement well was not installed.

Groundwater Monitoring (Task 6)

- All wells were gauged. No NAPL was encountered.
- All wells were sampled. Samples were analyzed for VOCs, PNAs, and 8 RCRA metals. Analytical results are attached.

3.0 INVESTIGATION RESULTS

Comparison of soil and groundwater data to current Michigan Department of Environmental Quality (MDEQ) Generic Residential and Non-Residential Cleanup Criteria (GRCC/GNRCC) indicates the following:

Groundwater Results

Metals: Selenium and arsenic were detected above the Groundwater to Surface Water Interface (GSI) criteria, and arsenic was detected above the Drinking Water Protection (DWP). No other criteria were exceeded. The metals concentrations are consistent with expected regional conditions, do not appear to represent a plume, and are believed to be naturally-occurring. Although the MDEQ has published state-wide and regional “background” concentrations for soils, there are no such values published for groundwater. The concentrations of arsenic and selenium are generally consistent with concentrations encountered by AÆ at other uncontaminated sites in the Flint area. Although low-flow sample collection techniques were properly used, the possibility also exists that the metals concentrations are a result of sample turbidity.

PNAs: No polynuclear aromatics (PNAs) were detected above GRCC or GNRCC.

VOCs: (VOCs comparison includes the updated criteria published by the MDEQ on September 28, 2012). Only Vinyl Chloride (17ppb in MW-109S, located off-site to the north)) exceeded the GSI criteria. The GSI protection criterion for vinyl chloride is 13ppb. This well is located approximately 640 feet from the Flint River. GSI is not believed to be at risk due to the distance to the Flint River and the low concentration of vinyl chloride encountered. This vinyl chloride concentration is also greater than the DWP criterion of 2.0ppb. In addition, trichloroethene was detected in MW-109S at 178ppb, exceeding the DWP criterion of 5.0ppb. Trichloroethene was also detected at 9.0ppb in MW-107S. No other criteria were exceeded. A substantial decrease in VOCs was encountered in MW-111S compared to the previous sampling event. This was the second sampling of this well. Future consideration will be given to this matter if anomalous results are encountered.

Soils Results

VOCs: Various CVOCs and naphthalene were detected in several borings above the DWP and/or GSI criteria. Trichloroethene was detected above some inhalation criteria as follows:

Soil (parts per billion)						
Analyte	Res. Vol. to Indoor Air	Res. Vol. to Ambient Air – Infinite Source Thickness	Res. Vol. to Ambient Air – 5m Source Thickness	Non-Res. Vol. to Indoor Air	Non-Res. Vol. to Ambient Air – Infinite Source Thickness	Non-Res. Vol. to Ambient Air – 5m Source Thickness
Trichloroethene	1,000	11,000	25,000	1,900	14,000	25,000

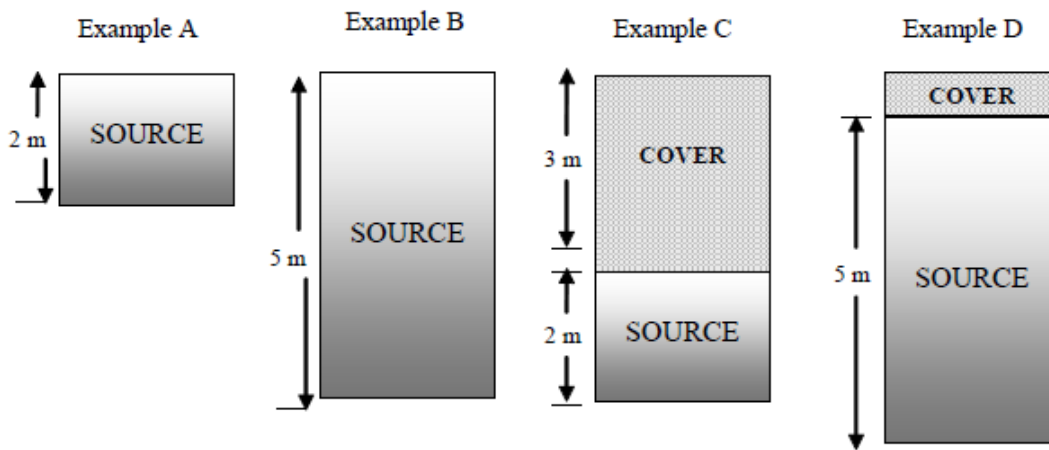
Trichloroethene was identified in soils at three locations (including past investigations) above one or more of the above volatilization criteria. As follows:

Analyte	Location	Results (ppb)	Inhalation Criteria Exceeded
Trichloroethene	SB-114 (20'-21')	1,220	Only Residential Indoor Air
	SB-117 (18'-19')	5,980	Residential and Non-Residential Indoor Air
	SB-122 (15'-16')	14,400	Residential and Non-Residential Indoor Air, Residential Ambient Air (Infinite Source), Non-Residential Ambient Air (Infinite Source)

Based on current and past investigations, the area of CVOCs above inhalation criteria is limited in extent and not near any buildings. Based on proximate past sampling and site observations (including photoionization detector (PID) readings); no areas of VOC impacts in soils are greater than 5 meters in thickness. This evaluation is consistent with the MDEQ's guidance provided in Operational Memorandum Number 1, Attachment 7, *Technical Support Document - Attachment 7 - Part 201 Generic Soil Inhalation Criteria For Ambient Air, Part 213 Tier I Soil Inhalation Risk-Based Screening Levels For Ambient Air*.

Attachment 7 states: "These criteria (Finite Source) modified for source area size, may be applied where characterization of the vertical extent of soil contamination is adequate and the vertical extent (i.e., source thickness, ds) of the contaminant source is no greater than the 2 and 5 meter source thickness assumed for these scenarios. Finite source VSIC may be used to determine the need for a response action to address soil contamination or to verify the adequacy of soil remediation when the soil-to-ambient air pathway is the most restrictive and relevant pathway."

This evaluation is assisted in the document using a graphical illustration of example scenarios, as follows:

Figure 1: Finite Source VSIC and Source Thickness

The RACER Flint West scenario is consistent with the “Example D.” Therefore, the indoor air and infinite source ambient air protection criteria do not apply, and a vapor intrusion concern is not indicated.

Sample analytical results (tabulated results and reports) are attached. Figures 2 and 3 illustrate the GSI and drinking water exceedances, respectively. Soil exceedances are shown on Figure 3.

Data validation information is expected by July 1, 2013.

4.0 PROPOSED ADDITIONAL INVESTIGATIONS

Proposed additional investigations are as follows:

1. Survey new sample locations.
2. Conduct gauging/sampling of the existing monitoring wells. The proposed analytical parameters for groundwater samples are:
 - 10 MDEQ metals: - Based on past low turbidity conditions, it is expected that low-flow sampling and total metals analysis is appropriate. (Past sampling has not required sample filtration);
 - PNAs (EPA 8270); and
 - VOCs (EPA 8260).

3. Conduct two soil borings and install one monitoring well to the north/northwest of SB-122. The SB-122 location represents the highest CVOC concentration in soils. Install a second well northwest of SB-122. The off-site wells are intended to evaluate the extent of the impact and to determine if the CVOC soil impact is a long-term threat to the GSI.
4. Install off-site wells per approved plan within 30 days of finalized Access Agreement with the City.

5.0 PROPOSED SCHEDULE:

Two additional wells will be installed (northwest of the utility substation and downgradient from SB-122) by July 14, 2013 and sampled during the August 2013 monitoring event.

Two additional wells will be installed on the City of Flint-owned property to the north within 30 days of receipt of a finalized Access Agreement.

Field work for the summer 2013 groundwater monitoring event is expected to be completed in August 2013 and a Data Report submitted approximately October 1, 2013.

FIGURES

SITE LOCATION MAP

RACER Flint West

FIGURE

1

DATE

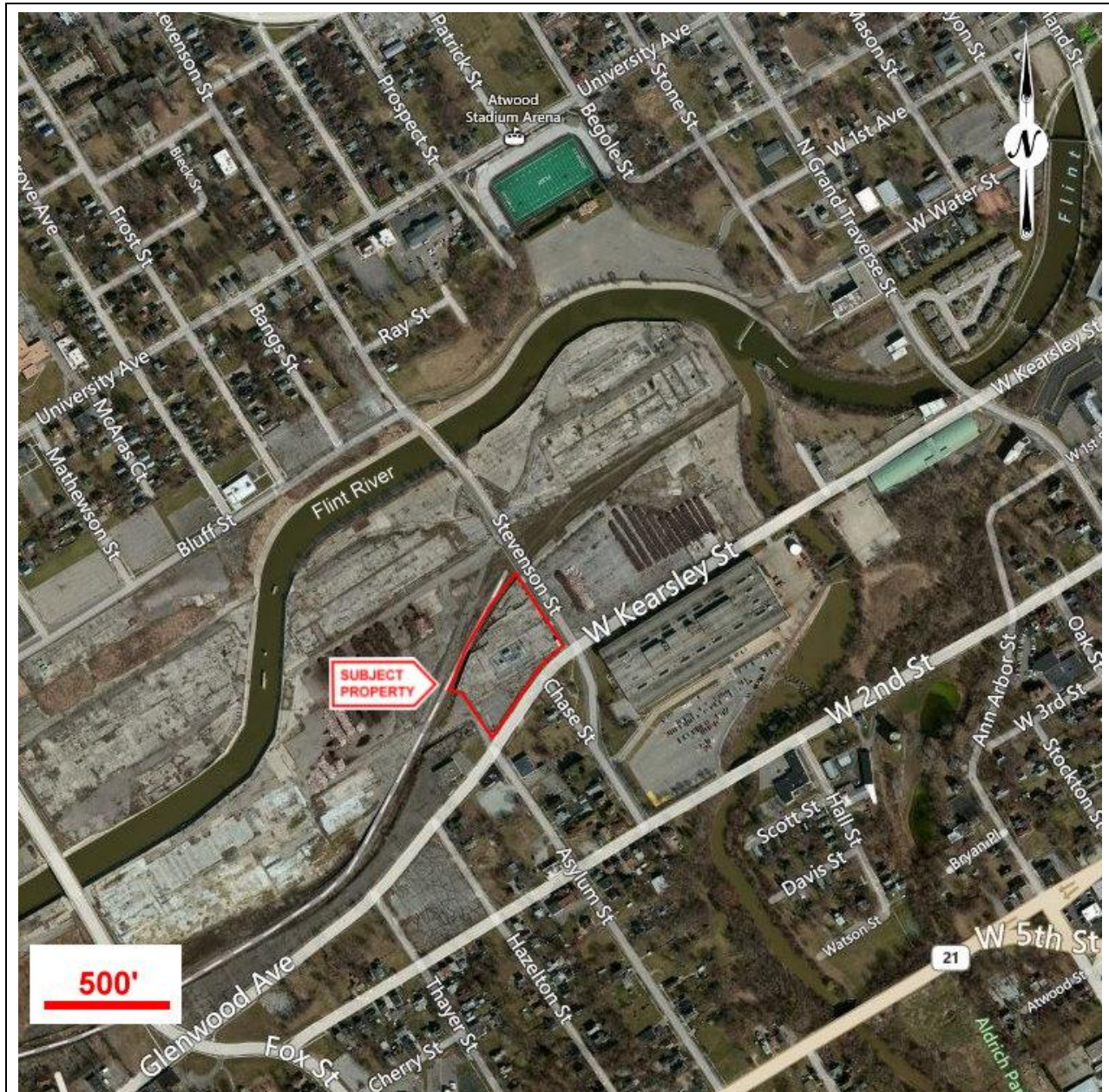
2012

SCALE

As Shown

PROJECT No.

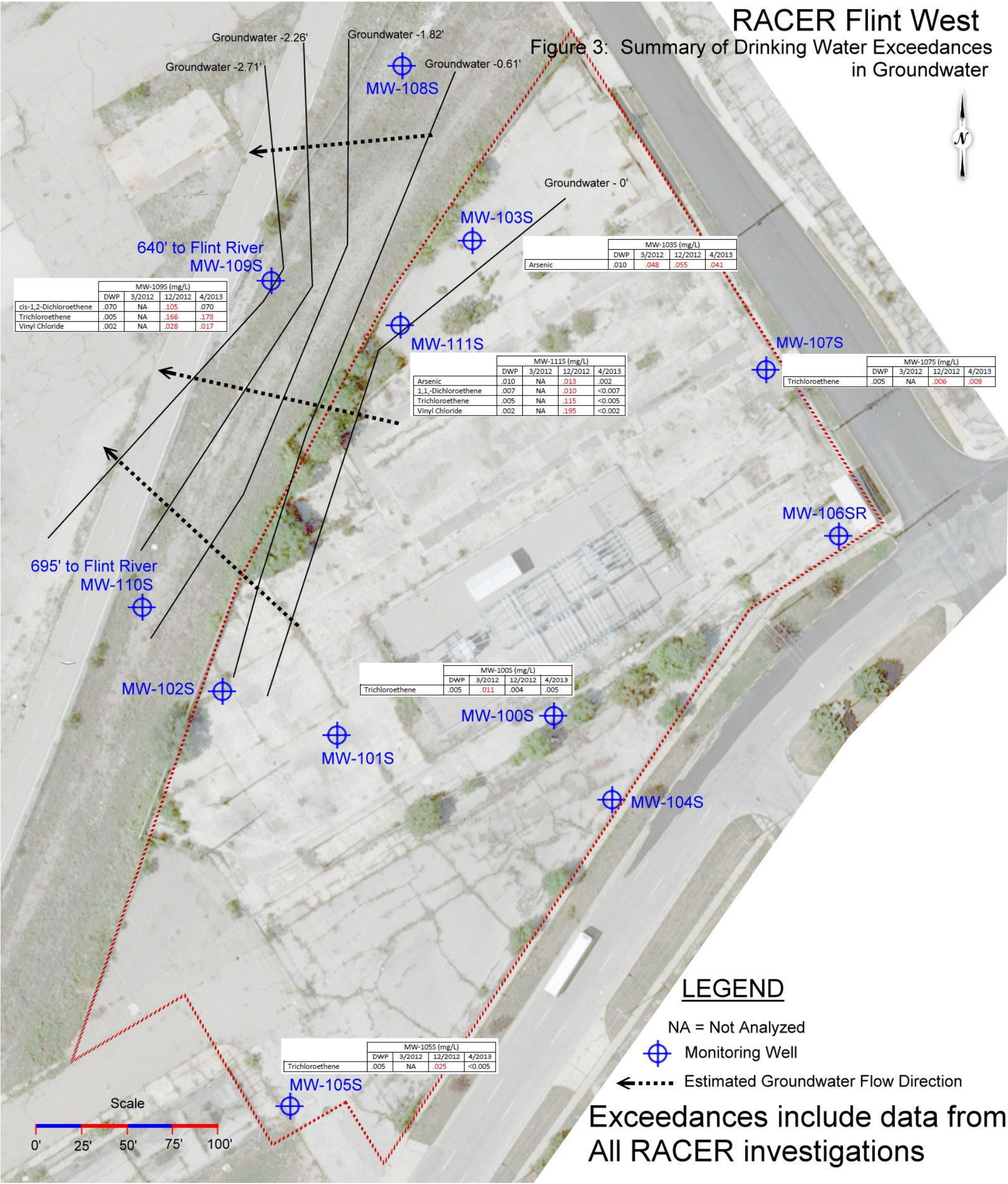
11-4317



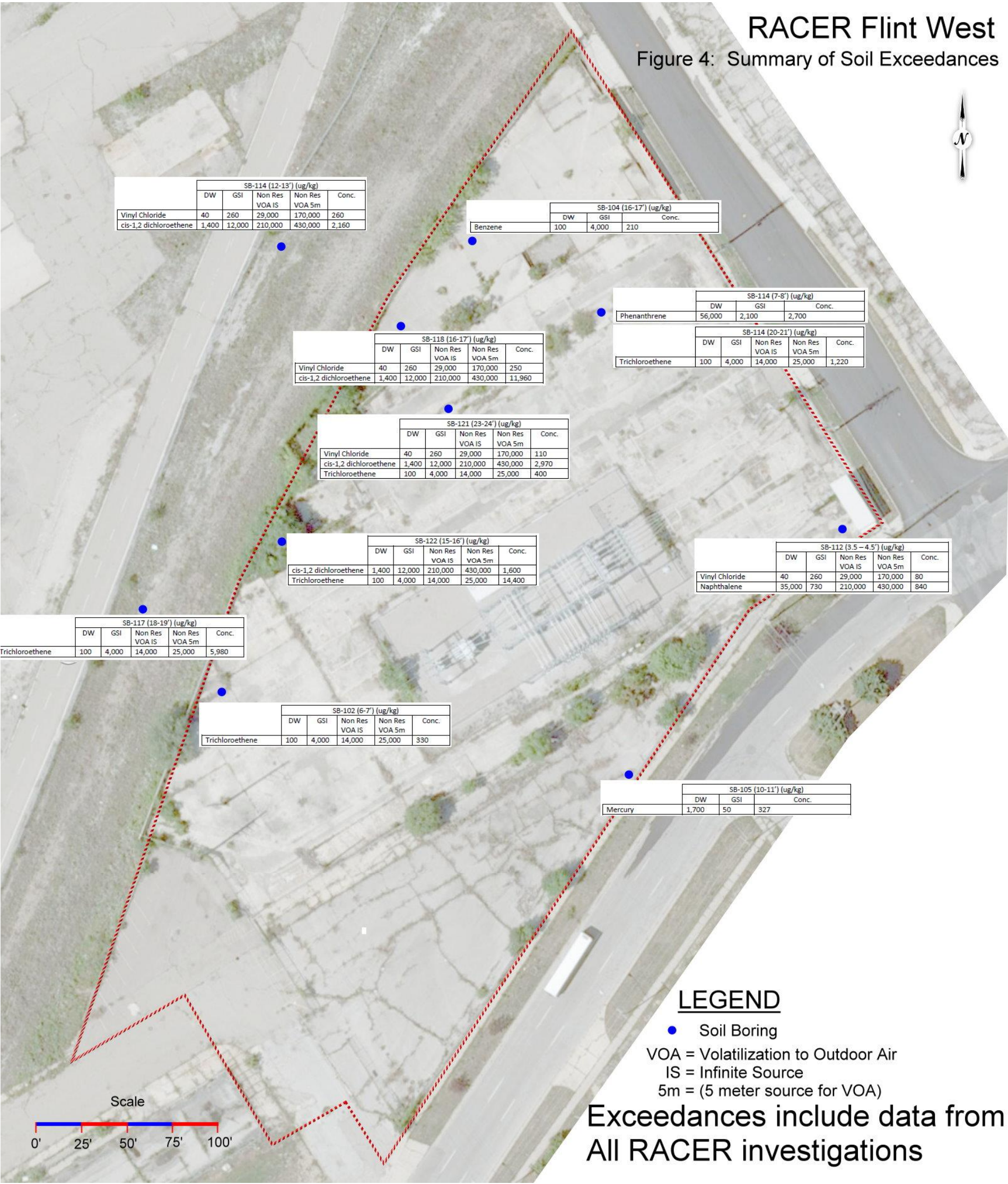
Source: United States Geological Survey

Property outline is approximate.





RACER Flint West
Figure 4: Summary of Soil Exceedances



RACER Flint West

Figure 5: Proposed Monitoring Well Locations



LEGEND

 Approximate Location of Proposed Monitoring Well



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

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
ft m	Ground Surface					
0 0	Concrete			HA	0.0	
	GW Sand, medium to fine; well sorted; dry; brown (7.5YR4/4). NOTE: Appears to be fill material.				0.0	
2					0.0	
					0.0	
4					0.0	
	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).		(05-06)	42/60	0.0	
6 2					0.0	
			(07-08)		0.0	
8					0.0	
	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; moist, brownish yellow (10YR6/6).				0.0	
10				48/60	0.0	
					0.0	
12					0.0	
4					0.0	
14					0.0	

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



Applied *Eco*Systems

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

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; saturated, brownish yellow (10YR6/6).				0.0	
				54/60	0.0	
18					0.0	
					0.0	
					0.0	
20				54/60	0.0	
					0.0	
22	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, gray (5Y6/1)				0.0	
					0.0	
					0.0	
24	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1).				0.0	
					0.0	
26	End of Log				0.0	
28						

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: 2 of 2



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-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

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
ft m	Ground Surface					
0 0	Concrete				0.0	
	GW Sand, fine to medium; well sorted; soft; dry; brown (7.5YR4/4). NOTE: brick, concrete, and large stones; rounded throughout.			HA	0.0	
2					0.0	
					0.0	
4					0.0	
				36/60	0.0	
6					0.0	
2					0.0	
8					0.0	
					0.0	
10	GP Sand, fine to coarse; rounded; loose; poorly sorted; brown (7.5YR4/4)			42/60	0.0	
			(11-12)		0.0	
12					0.0	
4					0.0	
14					0.0	

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

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

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).		(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).			43/48	0.0	
22					0.0	
24	End of Log				0.0	
26						
28						

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: 2 of 2



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-102 (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	
ft m	Ground Surface					
0 0	Concrete				0.0	
	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 2 inches thick; dry; brownish yellow (10YR6/6).			HA	0.0	
2					0.0	
					0.0	
4					0.0	
				24/60	0.0	
6					0.0	
2			(06-07)		0.0	
					0.0	
8					0.0	
					0.0	
10					0.0	
				36/60	0.0	
					0.0	
12					0.0	
4			(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

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



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

Log of Borehole: SB-102 (03/08/2012)

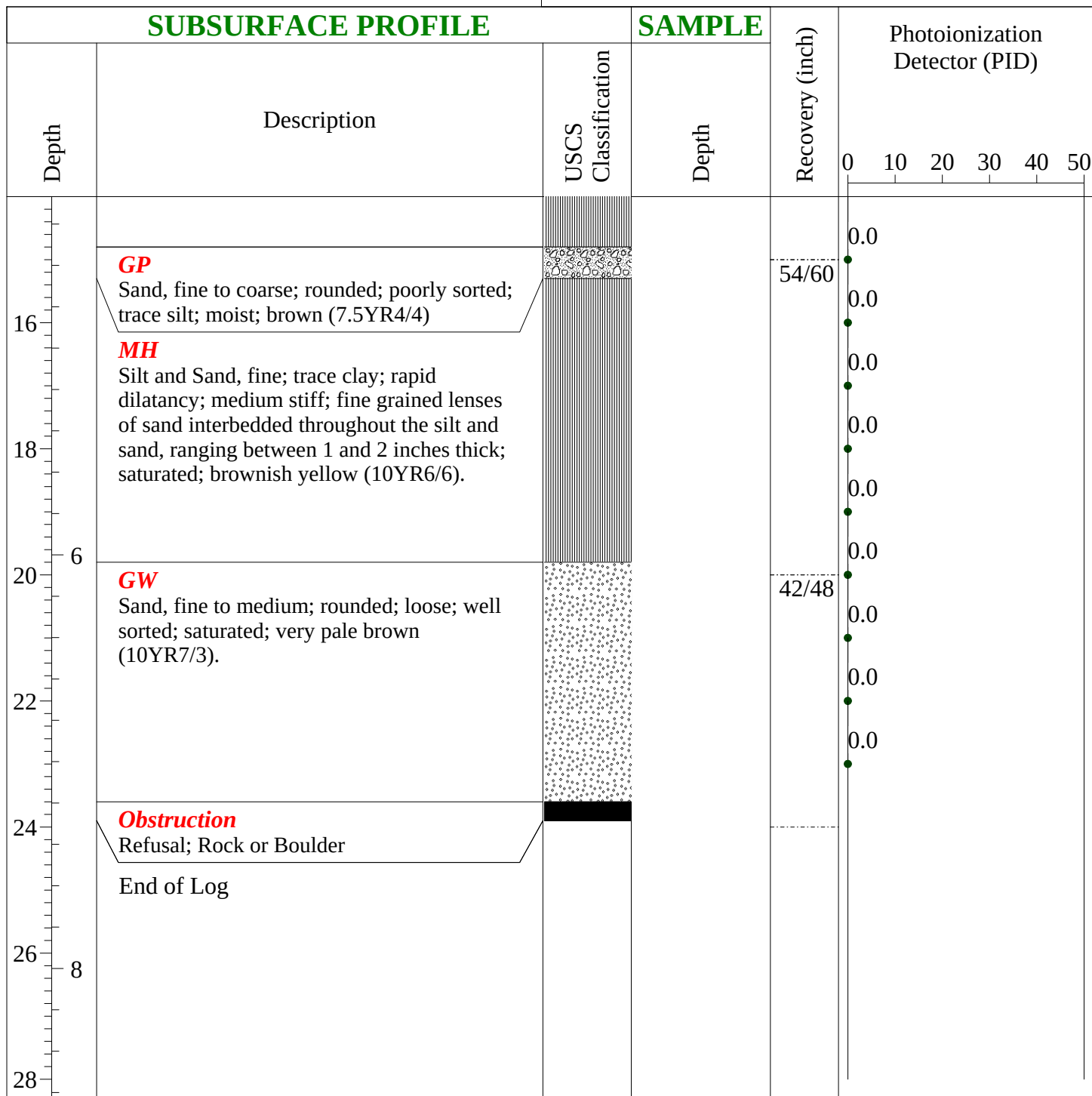
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 03/08/2012



Drill Start: 13:58

Drill End: 15:18

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



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-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	
ft m	Ground Surface					
0 0	Concrete				0.0	
				HA	0.0	
2	GP Sand, fine to coarse; rounded; poorly sorted; trace silt; dry; brown (7.5YR4/4). NOTE: brick, concrete, and large stones throughout.				0.0	
					0.0	
4					0.0	
					0.0	
6	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; gray (5Y5/1).			6/60	0.0	
2					0.0	
					0.0	
8					0.0	
					0.0	
10			(09-10)		0.0	
					0.0	
12	MH Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; discolored/black (5Y2.5/1).			48/60	0.0	
					0.0	
14			(12-13)		0.0	
4					0.0	
					0.0	

Drill Start: 16:06

Drill End: 16:51

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied 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-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	
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 3 inches thick; moist; gray (10YR6/1).				0.0	
				54/60	0.0	
					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 3 inches thick; saturated; brownish yellow (10YR6/6).				0.0	
					0.0	
					0.0	
20	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1).				0.0	
				33/36	0.0	
					0.0	
					0.0	
22					0.0	
					0.0	
24	End of Log					
26						
28						

Drill Start: 16:06

Drill End: 16:51

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied 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-104 (03/13/2012)

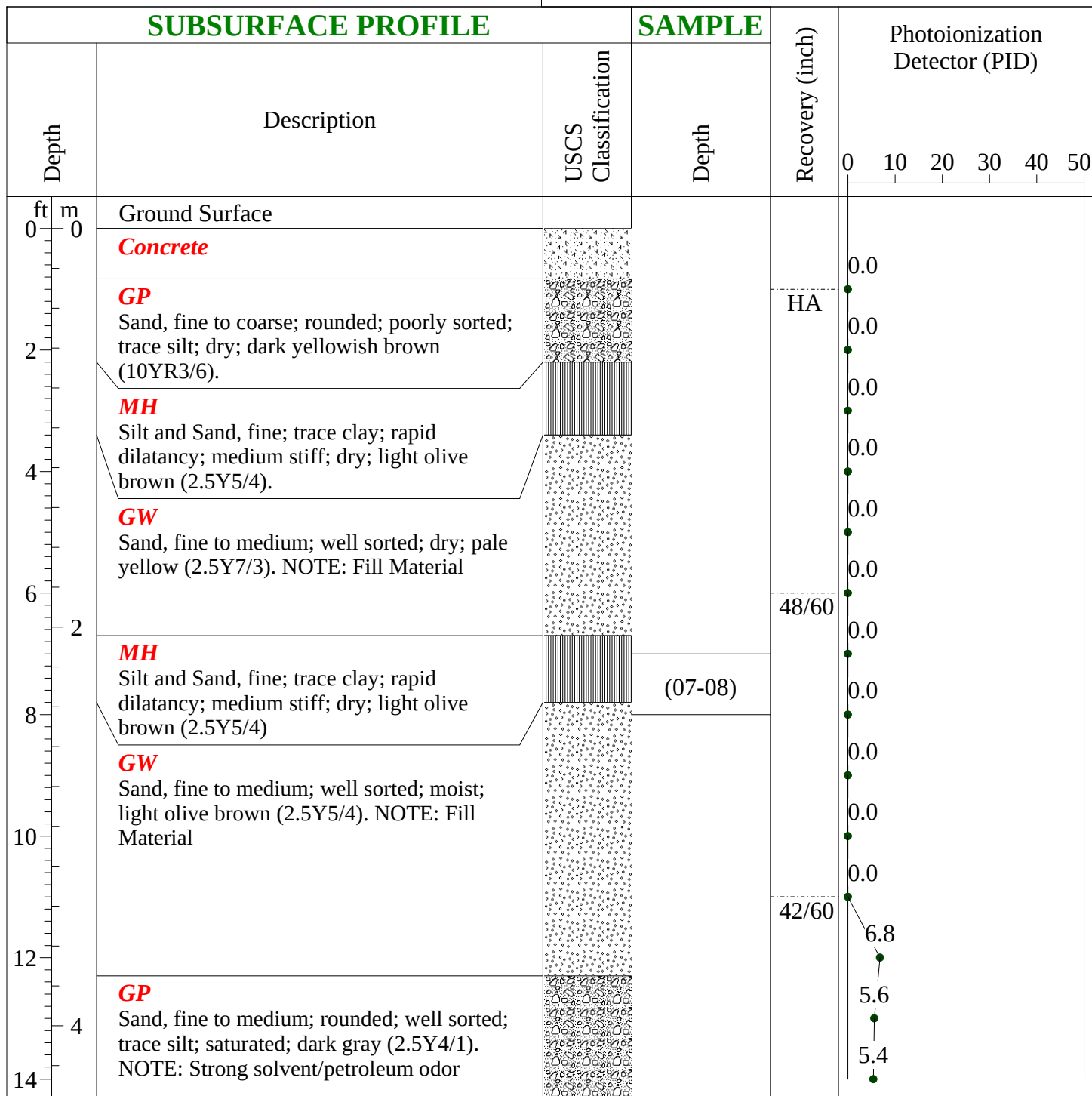
Project Number: 11-4317-102

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

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



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

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

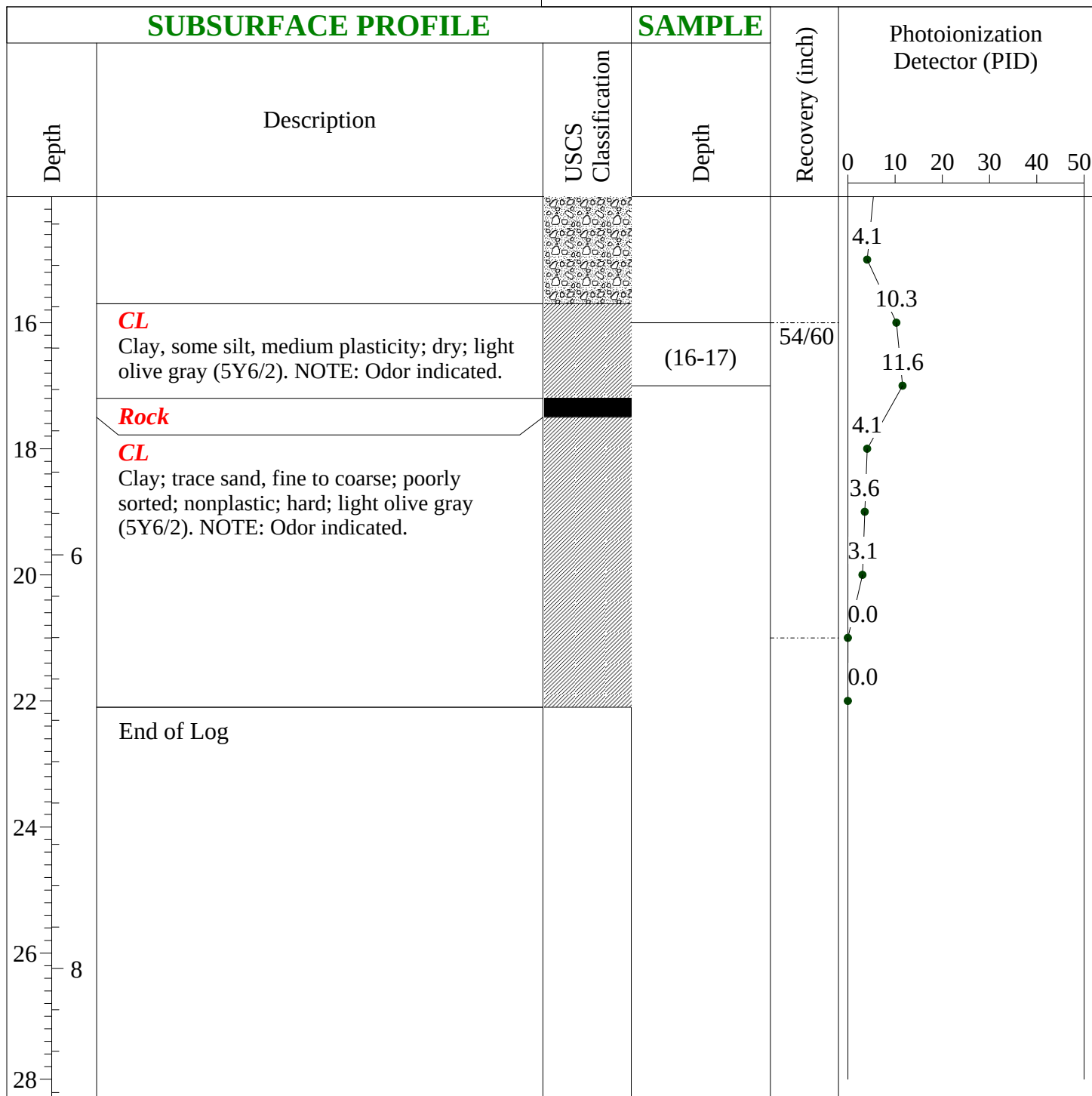
Project Number: 11-4317-102

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

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

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

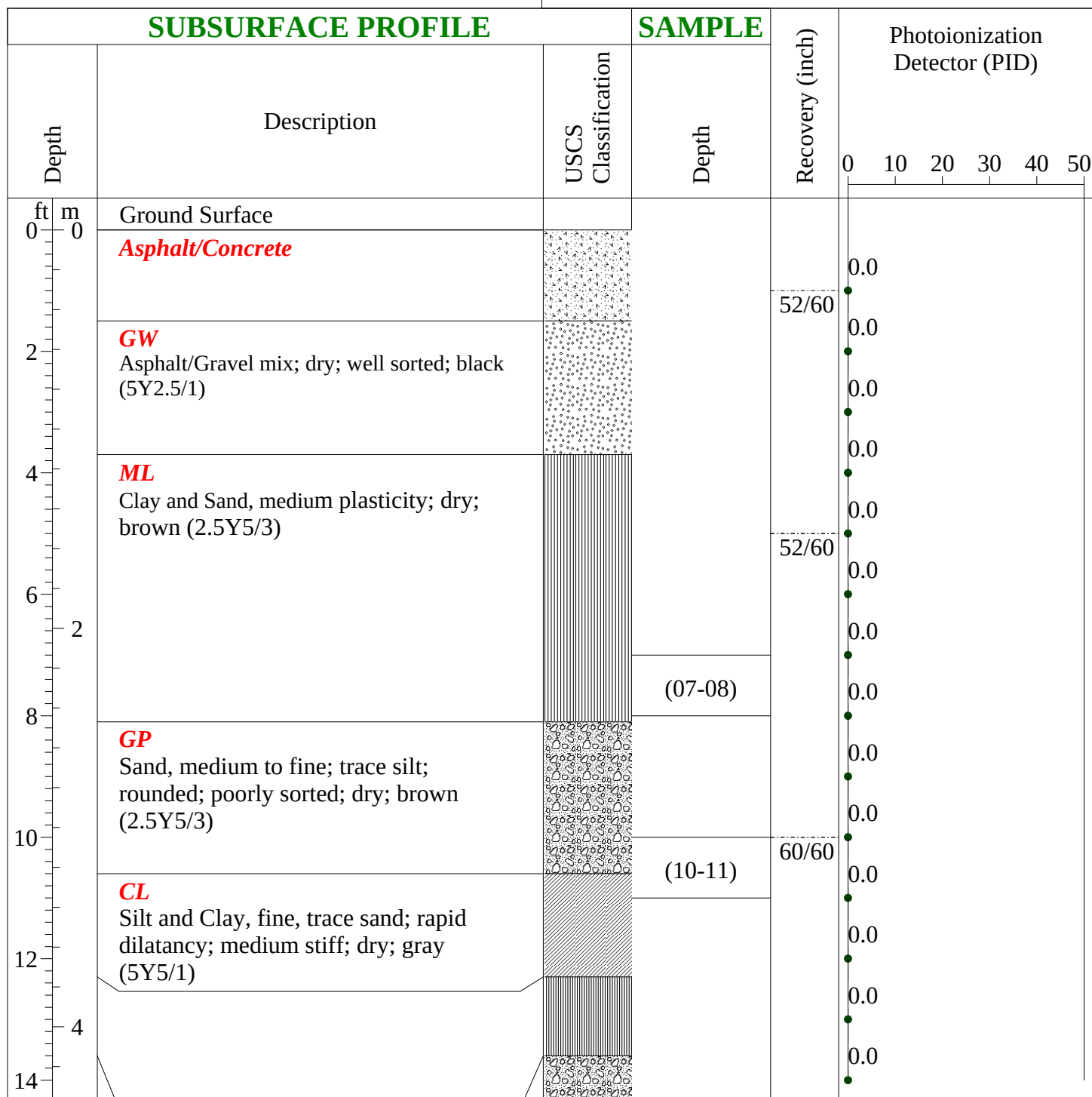
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/04/2012



Drill Start: 13:03

Drill End: 14:02

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		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; dry; gray (5Y5/1)			60/60	0.0	
					0.0	
	GP Sand, fine; trace silt; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0	
18					0.0	
					0.0	
20				60/60	0.0	
					0.0	
22					0.0	
	GP Sand, fine; trace silt; rounded; poorly sorted; saturated; gray (5Y5/1)				0.0	
					0.0	
24	CL Clay, some silt; medium plasticity; dry; gray (5Y5/1)		(23-24)		0.0	
					0.0	
26	End of Log				0.0	
28						

Drill Start: 13:03

Drill End: 14:02

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
ft m	Ground Surface					
0 0	Asphalt/Concrete				0.0	
	Void			12/60	0.0	
2	Void due to obstruction; concrete debris				0.0	
					0.0	
4					0.0	
				60/60	0.0	
6	ML				0.0	
2	Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)				0.0	
					0.0	
8					0.0	
	MH		(08-09)		0.0	
	Silt and Sand, fine; trace clay; rapid dilatancy; medium stiff; moist; brown (2.5Y5/3)				0.0	
10				60/60	0.0	
	GP				0.0	
	Sand, fine; trace silt; rounded; poorly sorted; dry; brown (2.5Y5/3)				0.0	
12					0.0	
	CL				0.0	
4	Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)		(13-14)		0.0	
14					0.0	

Drill Start: 14:13

Drill End: 15:01

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/04/2012

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

Drill Start: 14:13

Drill End: 15:01

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
ft m	Ground Surface					
0 0	Concrete/Asphalt				0.0	
					0.0	
2	GW Asphalt/Gravel mix			52/60	0.0	
					0.0	
4	ML Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)				0.0	
				48/60	0.0	
6			(06-07)		0.0	
					0.0	
8	GP Sand, fine; rounded; poorly sorted; moist; brown (2.5Y5/3)				0.0	
					0.0	
10	CL Clay, some silt; medium plasticity; dry; brown (2.5Y5/3)			60/60	0.0	
					0.0	
12					0.0	
			(13-14)		0.0	
14					0.0	

Drill Start: 15:11

Drill End: 15:55

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/04/2012

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

Drill Start: 15:11

Drill End: 15:55

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

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

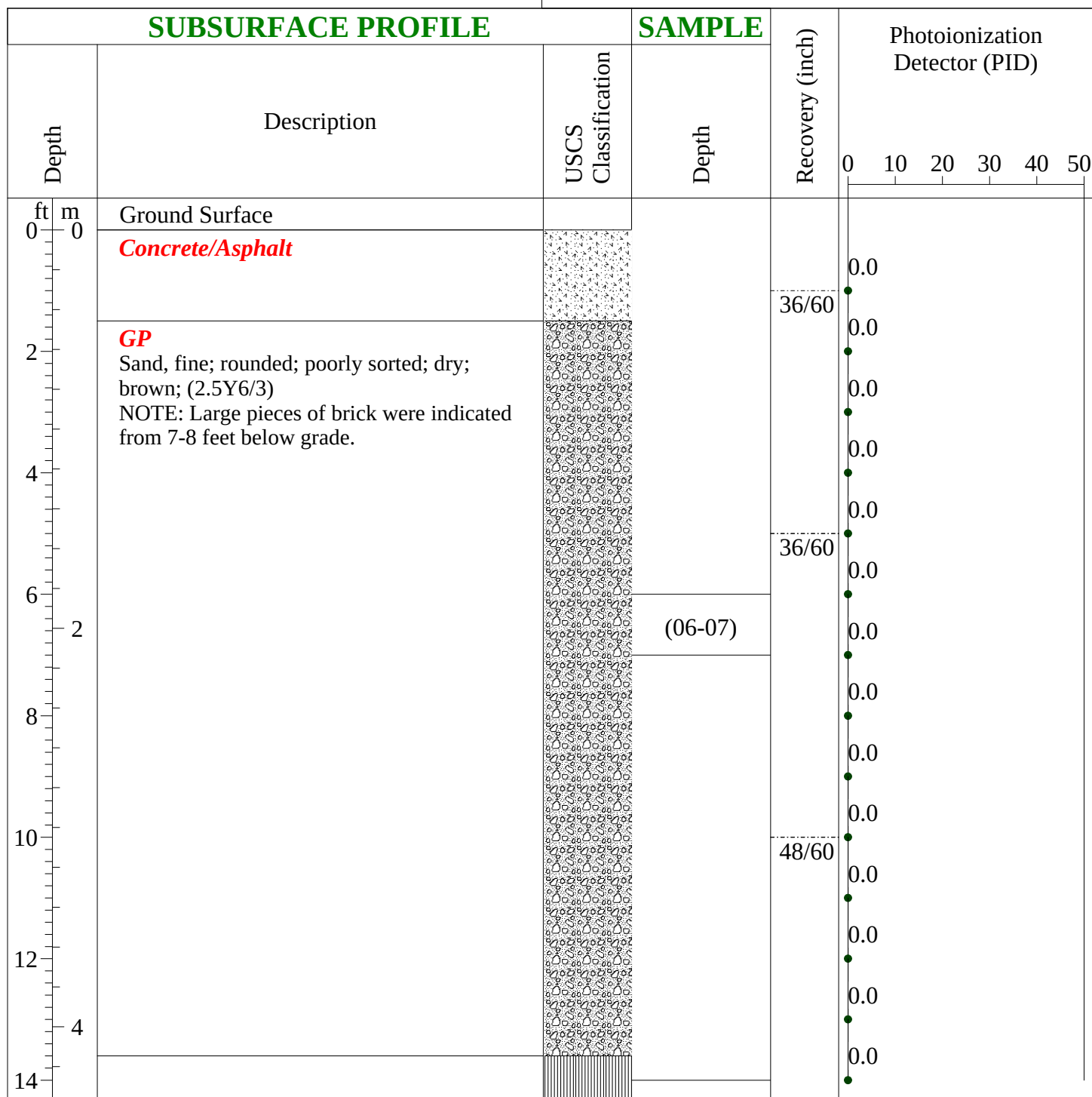
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/04/2012



Drill Start: 16:10

Drill End: 16:51

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/04/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	
16	ML Clay and Sand, medium plasticity; dry; brown (2.5Y5/3)		(14-15)	84/60	0.0
	GP Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/3)				0.0
18	CL Clay, some silt; medium plasticity; dry; gray (2.5Y5/2)				0.0
20			(20-21)		0.0
22	End of Log				0.0
24					
26					
28					

Drill Start: 16:10

Drill End: 16:51

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

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

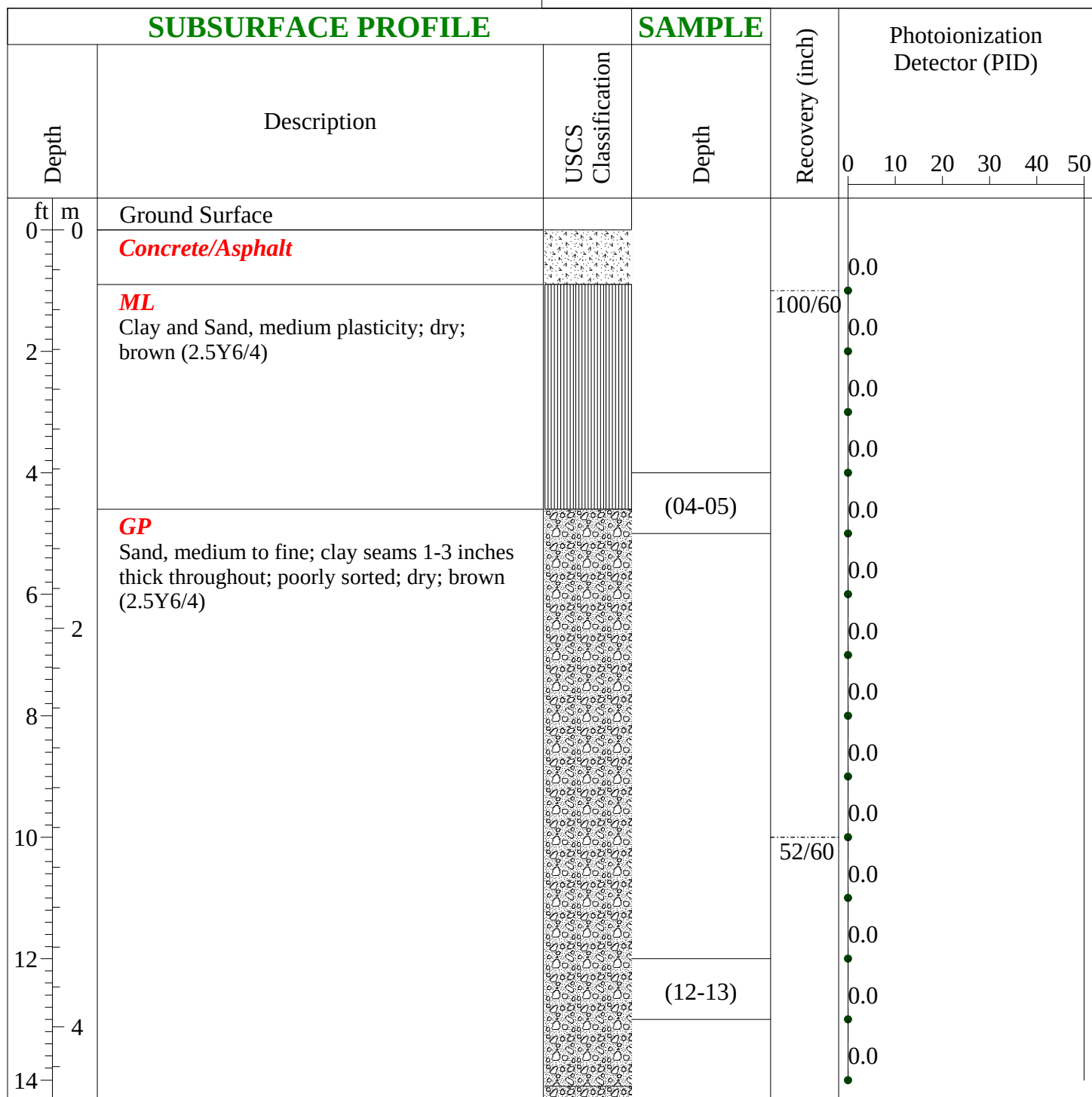
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012



Drill Start: 9:58

Drill End: 10:51

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
16	GP Sand, medium to fine; clay seams 1-3 inches thick throughout; poorly sorted; saturated; brown (2.5Y6/4)			120/60	0.0	
18	CL Clay, some silt; trace sand; medium plasticity; dry; gray (2.5Y4/1)		(18-19)		0.0	
20					0.0	
22					0.0	
24	End of Log				0.0	
26					0.0	
28					0.0	

Drill Start: 9:58

Drill End: 10:51

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012

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

Drill Start: 12:01

Drill End: 13:10

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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-110 (12/05/2012)

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012

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

Drill Start: 12:01

Drill End: 13:10

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

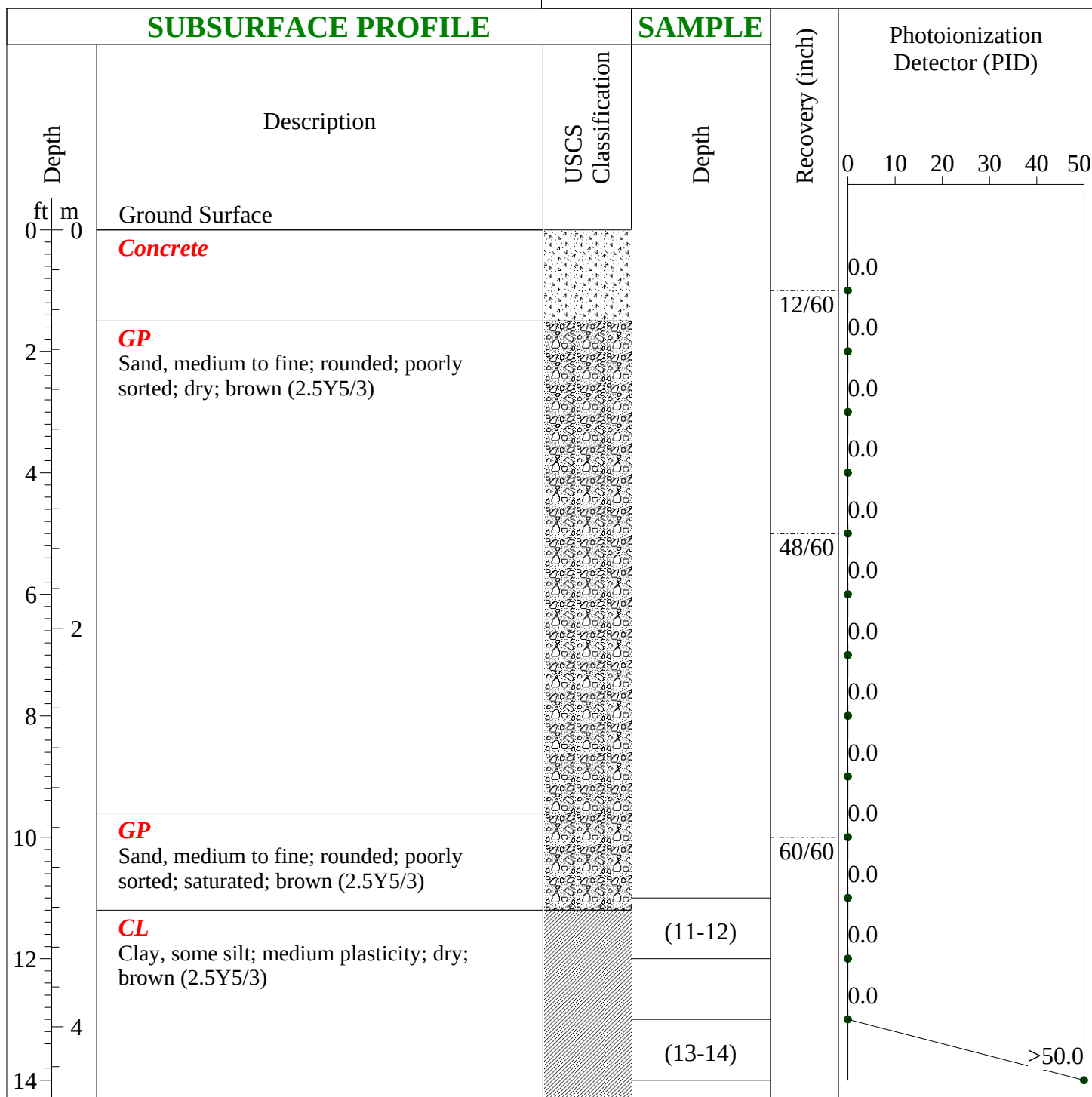
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012



Drill Start: 14:48

Drill End: 16:02

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

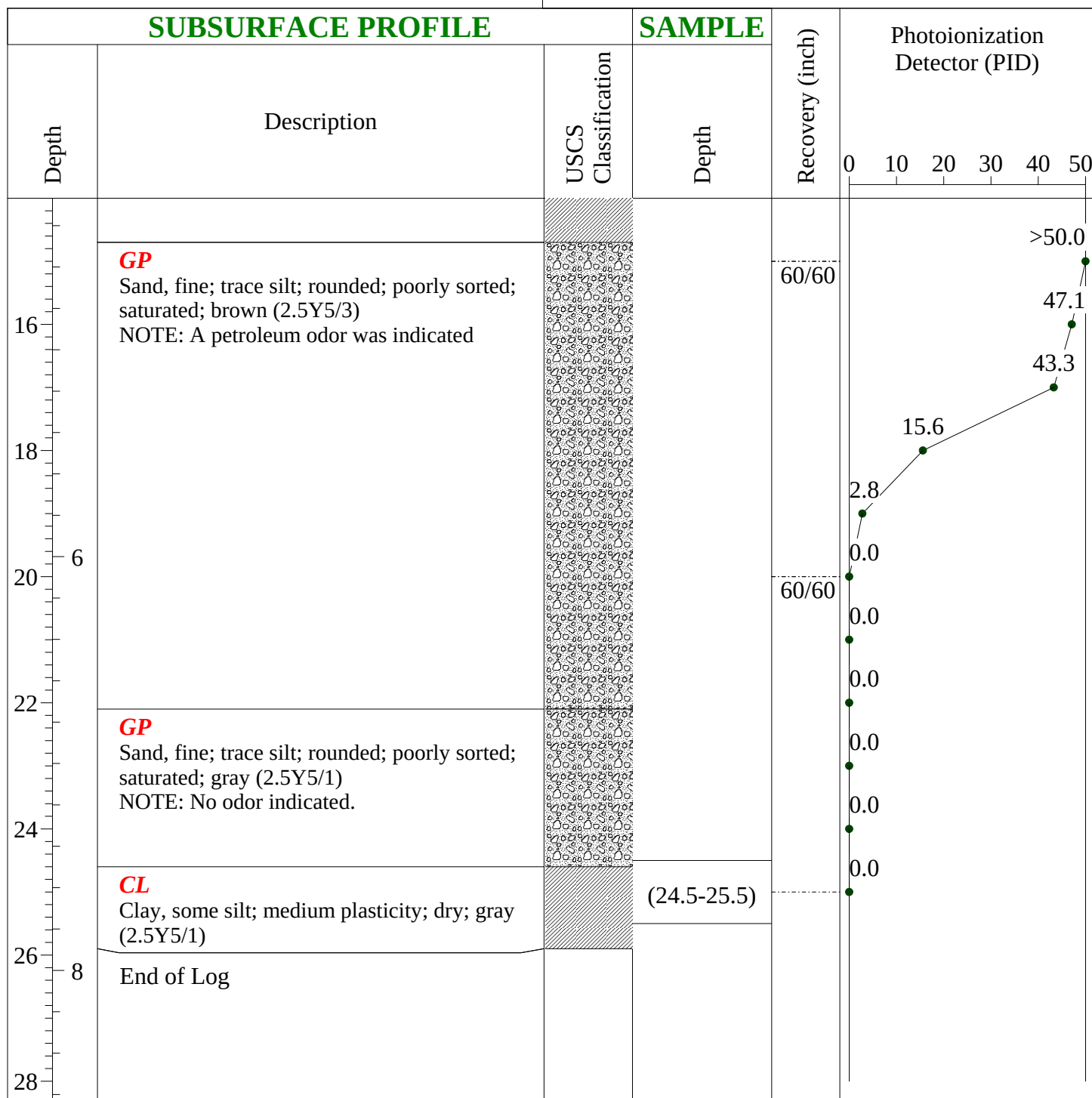
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012



Drill Start: 14:48

Drill End: 16:02

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

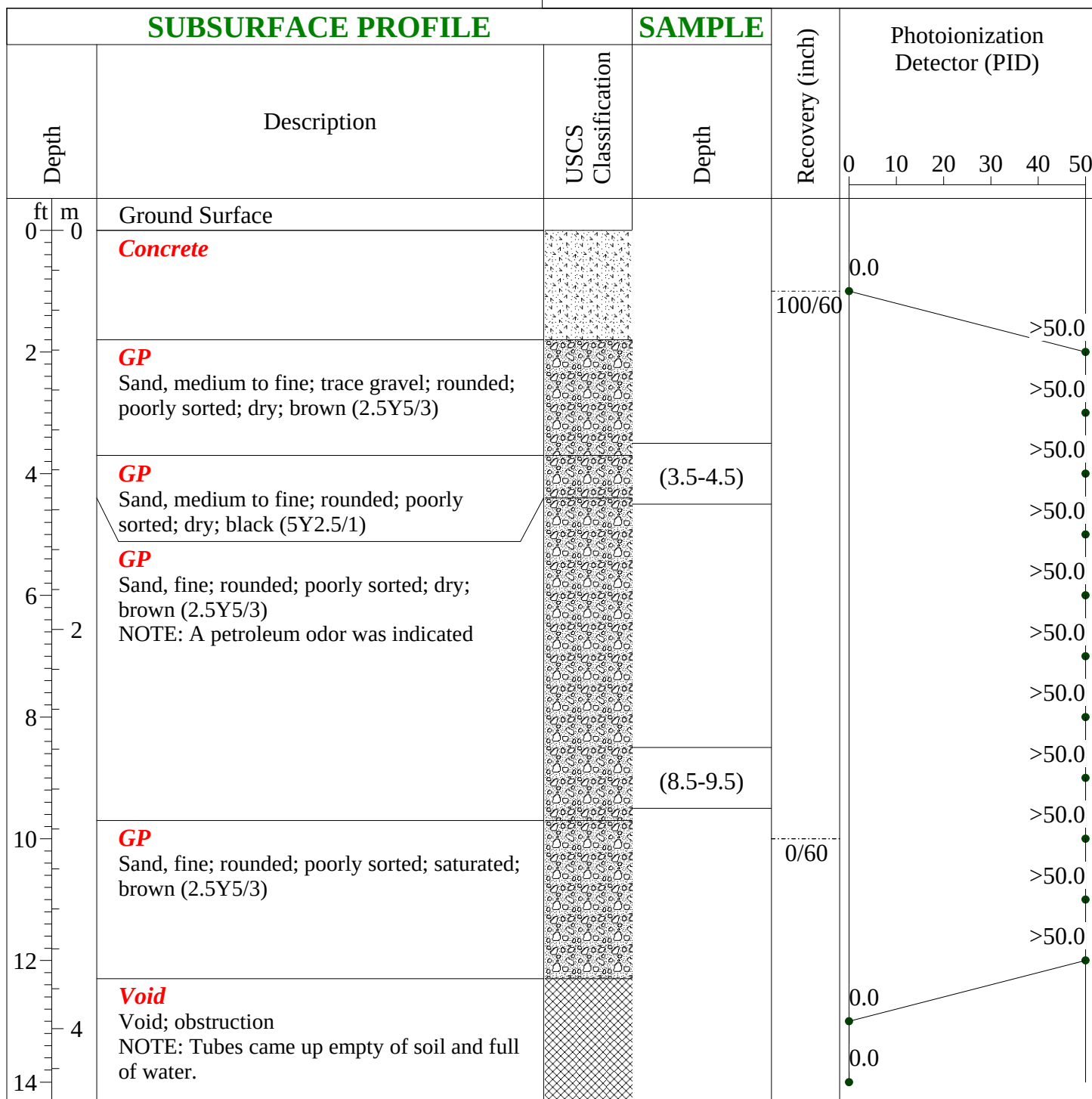
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/06/2012



Drill Start: 11:26

Drill End: 12:27

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/06/2012

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

Drill Start: 11:26

Drill End: 12:27

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

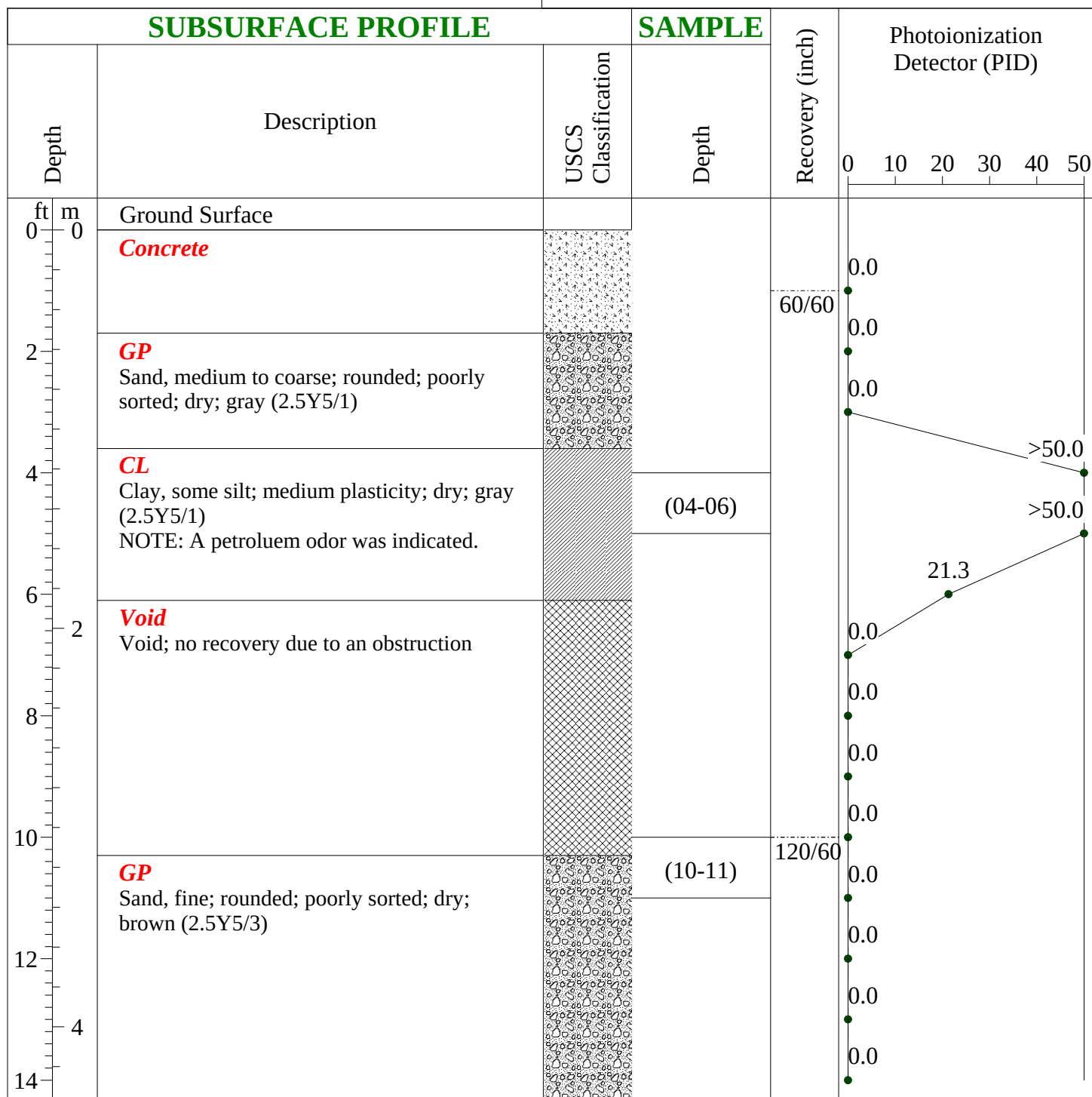
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/06/2012



Drill Start: 14:56

Drill End: 16:01

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/06/2012

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

Drill Start: 14:56

Drill End: 16:01

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

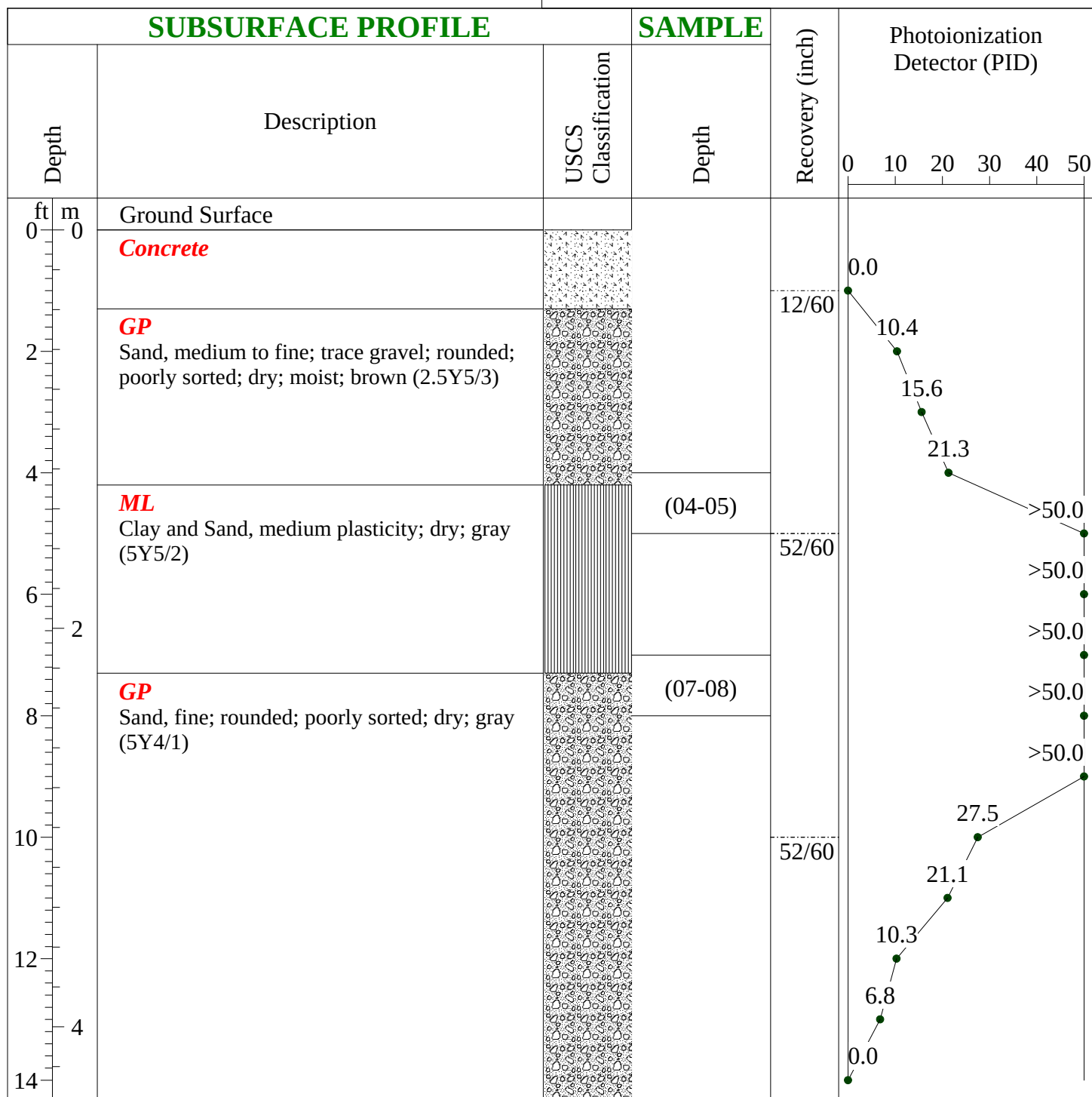
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/10/2012



Drill Start: 10:12

Drill End: 11:13

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
16	GP Sand, fine; rounded; poorly sorted; moist; gray (5Y4/1)			96/60	0.0	
	GP Sand, fine; rounded; poorly sorted; saturated; gray (5Y4/1)				0.0	
18					0.0	
					0.0	
20	CL Clay, some silt; medium plasticity; dry; gray (5Y4/1)		(20-21)		0.0	
					0.0	
22					0.0	
					0.0	
24	End of Log				0.0	
					0.0	
26					0.0	
28					0.0	

Drill Start: 10:12

Drill End: 11:13

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
ft m	Ground Surface					
0 0	Topsoil				0.0	
	GP Sand, medium to fine; trace gravel; rounded; poorly sorted; dry; moist; brown (2.5Y5/3)			48/60	0.0	
2					0.0	
					0.0	
4					0.0	
				56/60	0.0	
6			(06-07)		0.0	
					0.0	
8	GP Sand, medium to fine; trace gravel and rock; rounded; poorly sorted; dry; brown (2.5Y5/3)				0.0	
					0.0	
10	GP Sand, some clay, medium to fine; rounded; poorly sorted; dry; gray (5Y4/1)			96/60	0.0	
					0.0	
12					0.0	
			(13-14)		0.0	
4					0.0	
14					0.0	

Drill Start: 11:46

Drill End: 13:16

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/10/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
16	GP Sand, some clay, medium to fine; rounded; poorly sorted; saturated; gray (5Y4/1)				0.0	
18	CL Clay, some sand; fine; poorly sorted; medium plasticity; dry; gray (5Y4/1)		(17-18)		0.0	
20	End of Log				0.0	
22					0.0	
24					0.0	
26					0.0	
28					0.0	
					0.0	
					0.0	

Drill Start: 11:46

Drill End: 13:16

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012

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

Drill Start: 9:42

Drill End: 10:25

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

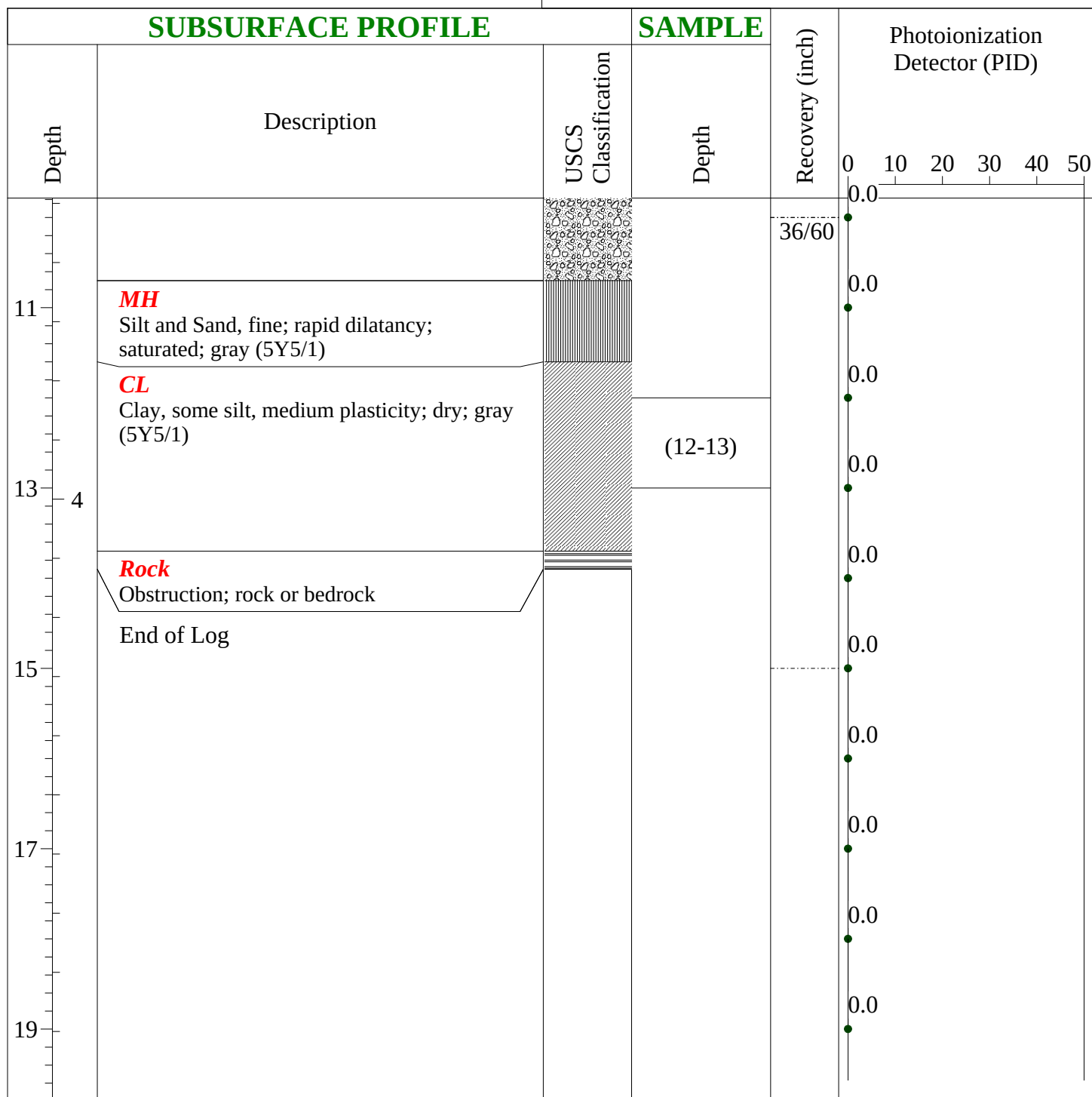
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012



Drill Start: 9:42

Drill End: 10:25

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
ft m	Ground Surface					
0 0	Topsoil				0.0	
	GP Sand, fine; trace sand and gravel; rounded; poorly sorted; dry; black (5Y2.5/1)			48/60	0.0	
2					0.0	
					0.0	
4					0.0	
				60/60	0.0	
6	CL Clay, some sand; fine; poorly sorted: dry; gray (5Y5/1)		(06-07)		0.0	
					0.0	
8	GP Sand, fine; rounded; poorly sorted; moist at 10 feet below grade; gray (5Y5/1)				0.0	
			(09-10)		0.0	
10				60/60	0.0	
					0.0	
12	GP Sand, medium to fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)				0.0	
					0.0	
4					0.0	
14					0.0	

Drill Start: 10:31

Drill End: 11:31

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

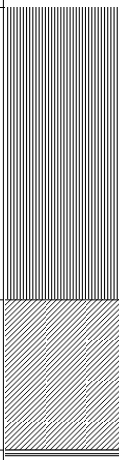
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
16	MH Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			60/60	0.0	
18	CL Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)		(18-19)		0.0	
20	Rock Obstruction; rock or bedrock				0.0	
20	End of Log				0.0	
22					0.0	
24					0.0	
26					0.0	
28					0.0	

Drill Start: 10:31

Drill End: 11:31

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
0	Ground Surface					
0	Topsoil with some gravel					
2	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			48/60	0.0	
4	CL Clay, some sand; medium plasticity; fine; poorly sorted; dry; brown (2.5Y5/4)		(3.5-4.5)		0.0	
6	GP Sand, fine; rounded; poorly sorted; dry; brown (2.5Y5/4)			52/60	0.0	
8			(07-08)		0.0	
10	GP Sand, fine; rounded; poorly sorted; moist; brown (2.5Y5/4)			60/60	0.0	
12	GP Sand, fine; rounded; poorly sorted; saturated; brown (2.5Y5/4)				0.0	
14					0.0	

Drill Start: 15:20

Drill End: 16:15

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
16	MH Silt and Sand, fine; rapid dilatancy; saturated; gray (5Y5/1)			60/60	0.0	
	CL Clay, some silt, medium plasticity; rapid dilatancy; dry; gray (5Y5/1)		(16-17)		0.0	
18	End of Log				0.0	
20					0.0	
22					0.0	
24					0.0	
26					0.0	
28					0.0	

Drill Start: 15:20

Drill End: 16:15

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-119 (04/30/2013)

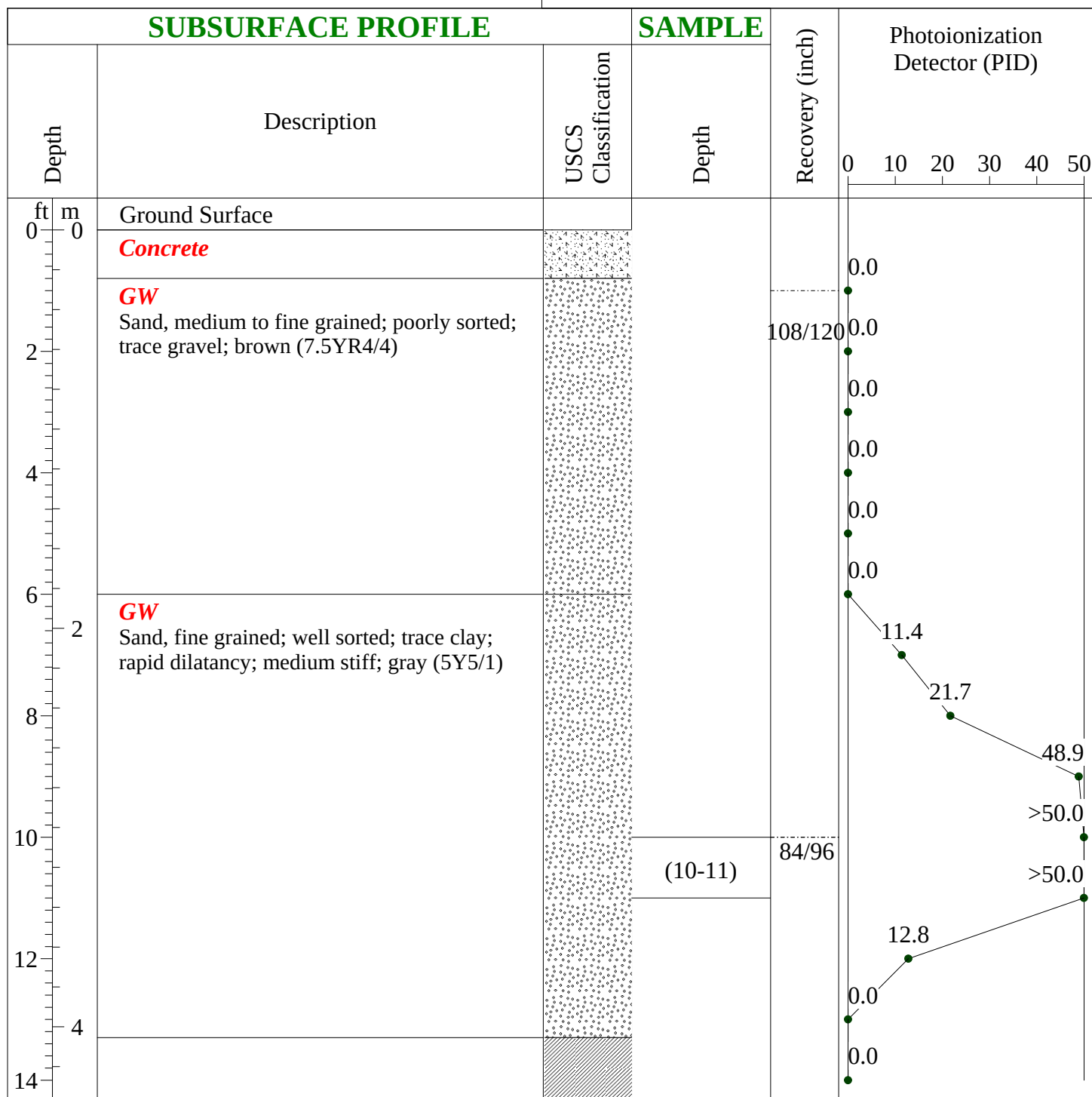
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013



Drill Start: 13:24

Drill End: 14:18

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-119 (04/30/2013)

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	
16	CL Clay, some sand; medium plasticity; gray (5Y5/1)				0 10 20 30 40 50 0.0
18			(17-18)		0.0
20	End of Log				
22					
24					
26					
28					

Drill Start: 13:24

Drill End: 14:18

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-120 (04/30/2013)

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	
ft m	Ground Surface				0 10 20 30 40 50
0	Concrete				0.0
	CL Clay, some sand; medium plasticity; brown (2.5Y5/4)			96/120	0.0
2					0.0
					0.0
4					0.0
					0.0
6					0.0
					0.0
8					0.0
	CL Clay, some sand; medium plasticity; gray (5Y5/1)		(08-09)		0.0
10					0.0
	GW Sand, fine grained; well sorted; gray (5Y5/1); saturated with a petroleum odor			84/96	0.0
12					0.0
					0.0
14					0.0

Drill Start: 14:39

Drill End: 15:01

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-120 (04/30/2013)

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)	
Depth	Description	USCS Classification	Depth	Recovery (inch)	0 10 20 30 40 50	
16	CL Clay, some silt; medium plasticity; dry; gray (5Y5/1)				0.0	
18	GW Sand, fine grained; well sorted; gray (5Y5/1)				0.0	
20	End of Log					
22						
24						
26						
28						

Drill Start: 14:39

Drill End: 15:01

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-121 (04/30/2013)

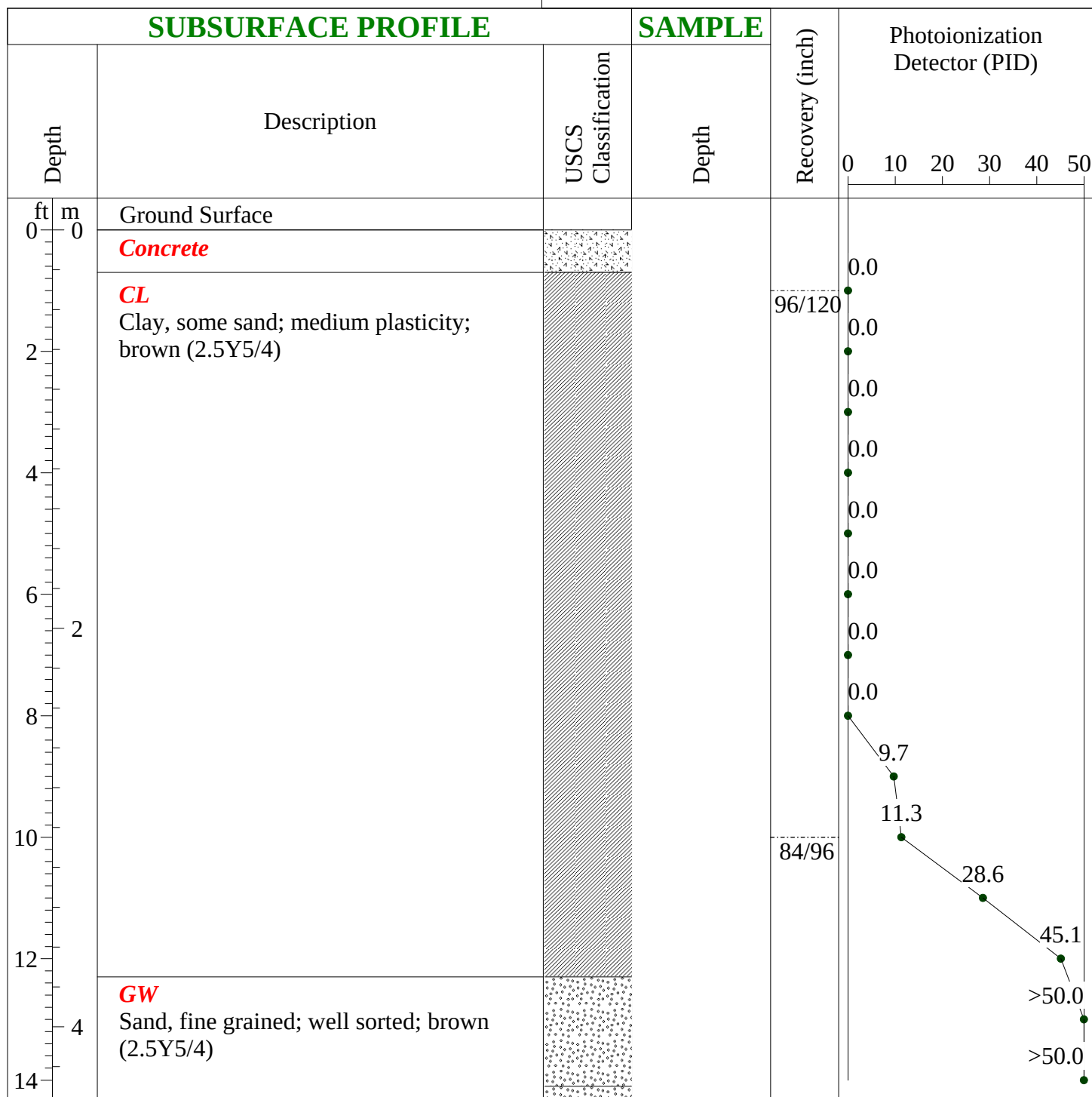
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013



Drill Start: 15:11

Drill End: 15:49

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-121 (04/30/2013)

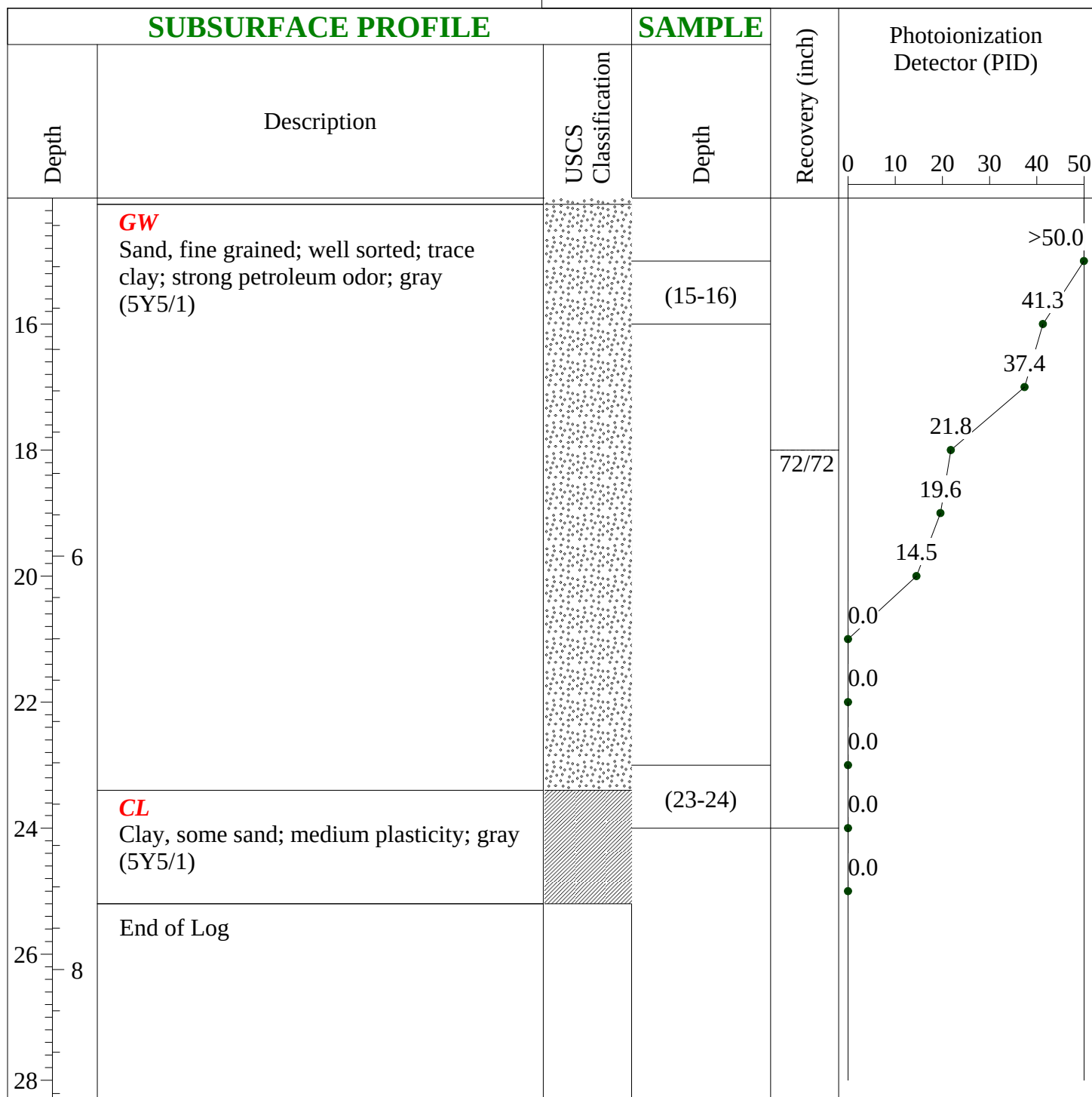
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013



Drill Start: 15:11

Drill End: 15:49

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-122 (04/30/2013)

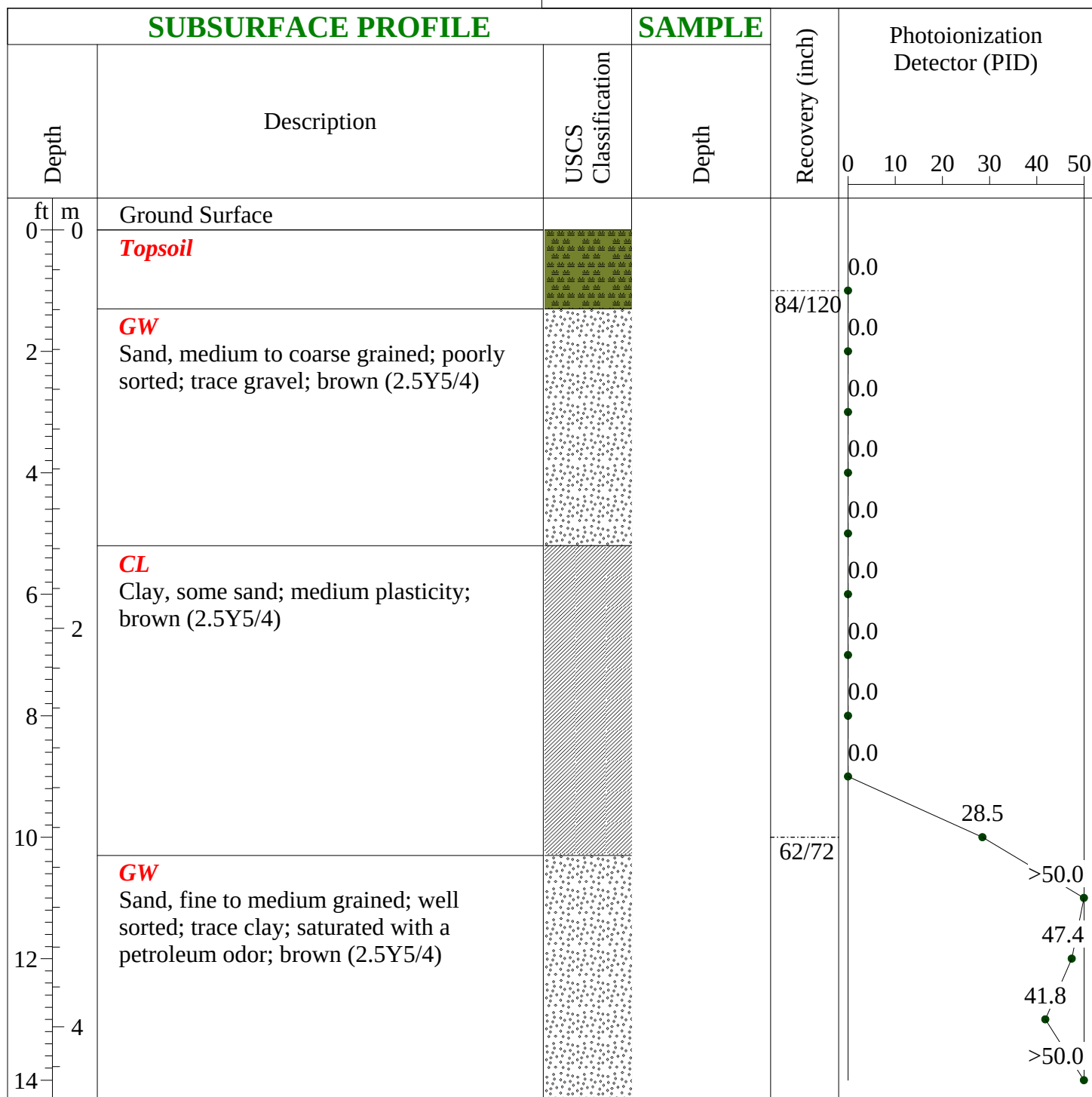
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013



Drill Start: 15:58

Drill End: 16:25

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-122 (04/30/2013)

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	
16	CL Clay, some sand; meduim plasticity; gray (5Y5/1)		(15-16)		>50.0
16	End of Log				>50.0
18					
20					
22					
24					
26					
28					

Drill Start: 15:58

Drill End: 16:25

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

Log of Borehole: SB-123 (04/30/2013)

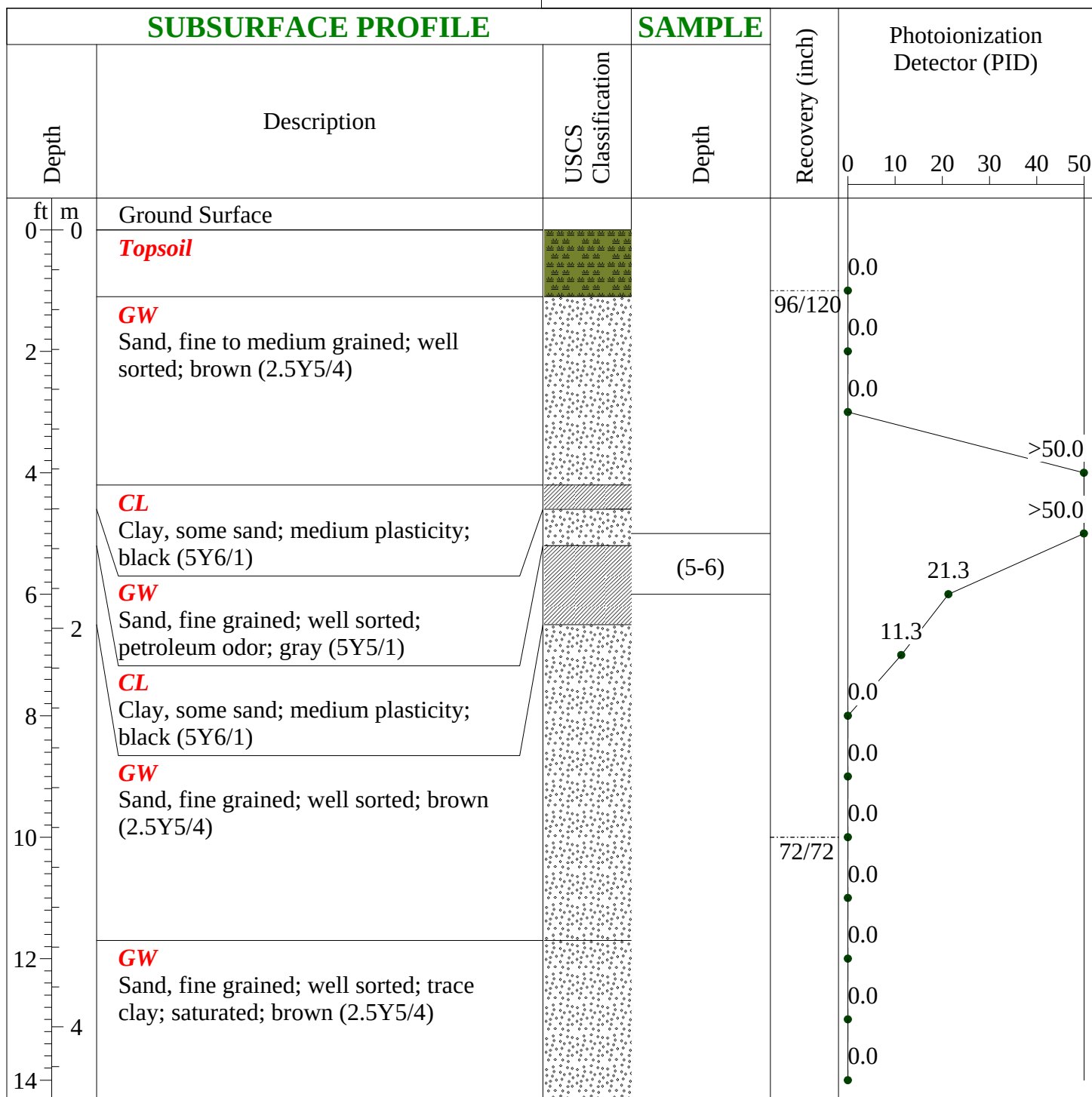
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013



Drill Start: 16:31

Drill End: 17:11

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

Log of Borehole: SB-123 (04/30/2013)

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/30/2013

SUBSURFACE PROFILE			SAMPLE		Photoionization Detector (PID)
Depth	Description	USCS Classification	Depth	Recovery (inch)	
16	End of Log				0.0
16					0.0
18					
18					
20					
20					
22					
22					
24					
24					
26					
26					
28					
28					

Drill Start: 16:31

Drill End: 17:11

Drill Method: Geoprobe 6600 - Direct Push

Diameter: 2-inch

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2

Attachment # 2: Monitoring Well Construction 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: MW-100S (03/07/2012)

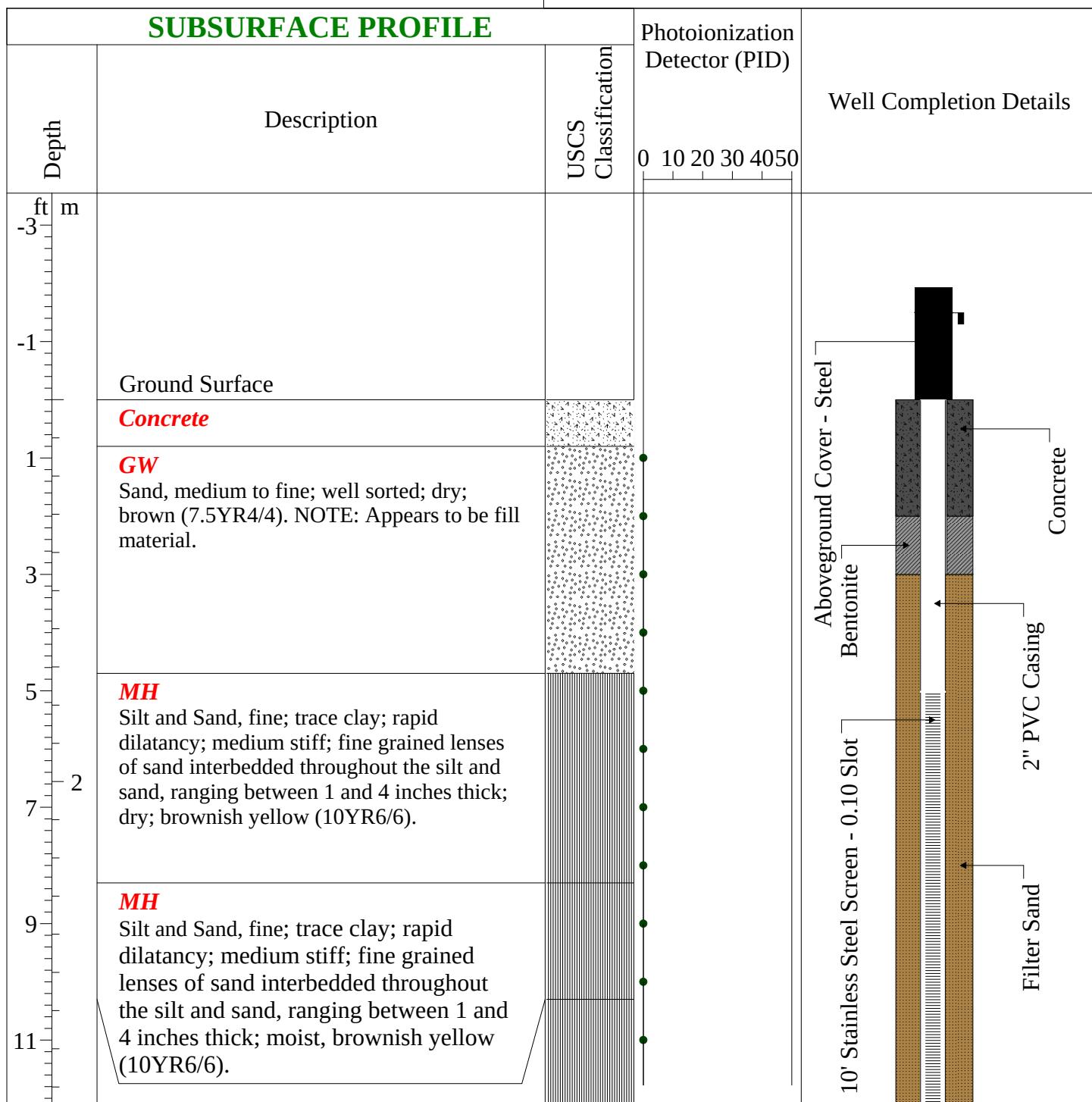
Project Number: 11-4317-102

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

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



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: 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

SUBSURFACE PROFILE					Photoionization Detector (PID)	Well Completion Details
Depth	Description	USCS Classification	0 10 20 30 40 50			
13	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).					
15						
17						
19						
21						
23	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, gray (5Y6/1)					
25						
	CL Clay, some silt, medium plasticity; dry; gray (5Y5/1).					
	End of Log					
Drill Start: 12:43 Drill End: 15:36 Drill Method: Geoprobe 6600 - Hollow Stem Augers Diameter: 4.25-inch ID						Contractor: Applied EcoSystems, Inc. Driller: Lynn Ledebuhr Logger: Josh Adams Sheet: 2 of 2



Applied 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: MW-101S (03/08/2012)

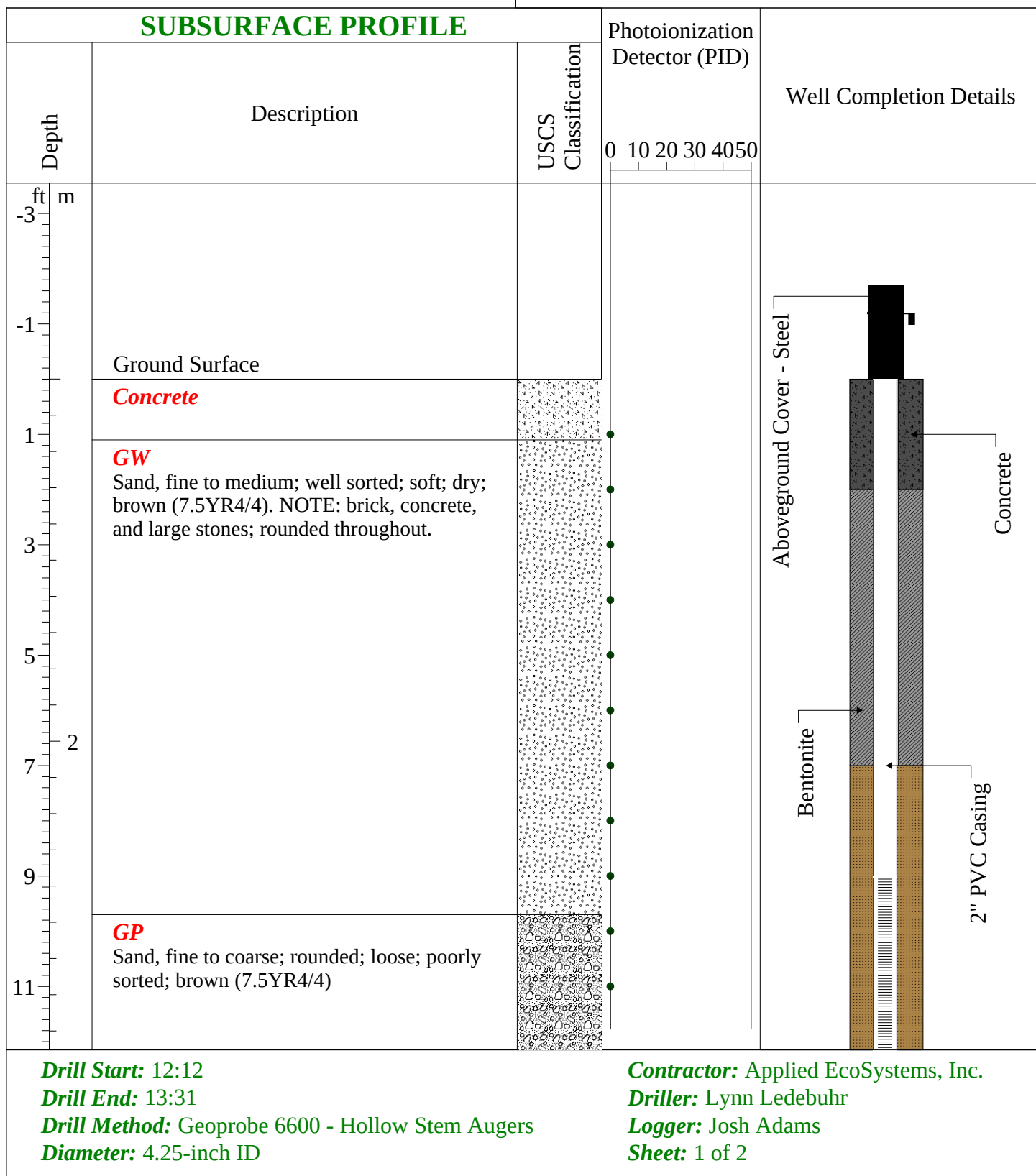
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 03/08/2012

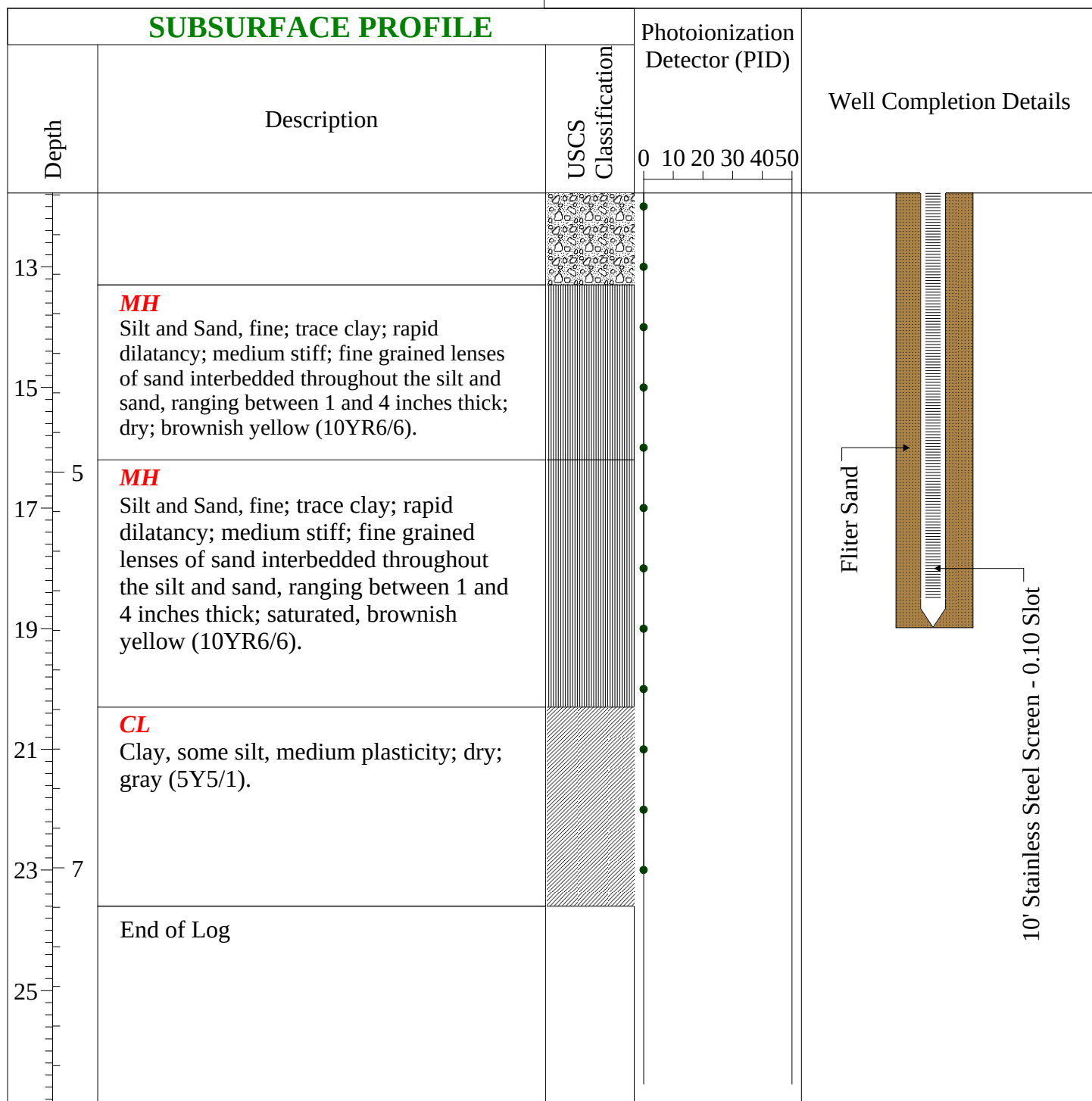




Applied EcoSystems
 Environmental Management, Consulting & Field Services
 G-4300 South Saginaw Street, Burton, Michigan 48529
 Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: 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

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



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: MW-102S (03/08/2012)

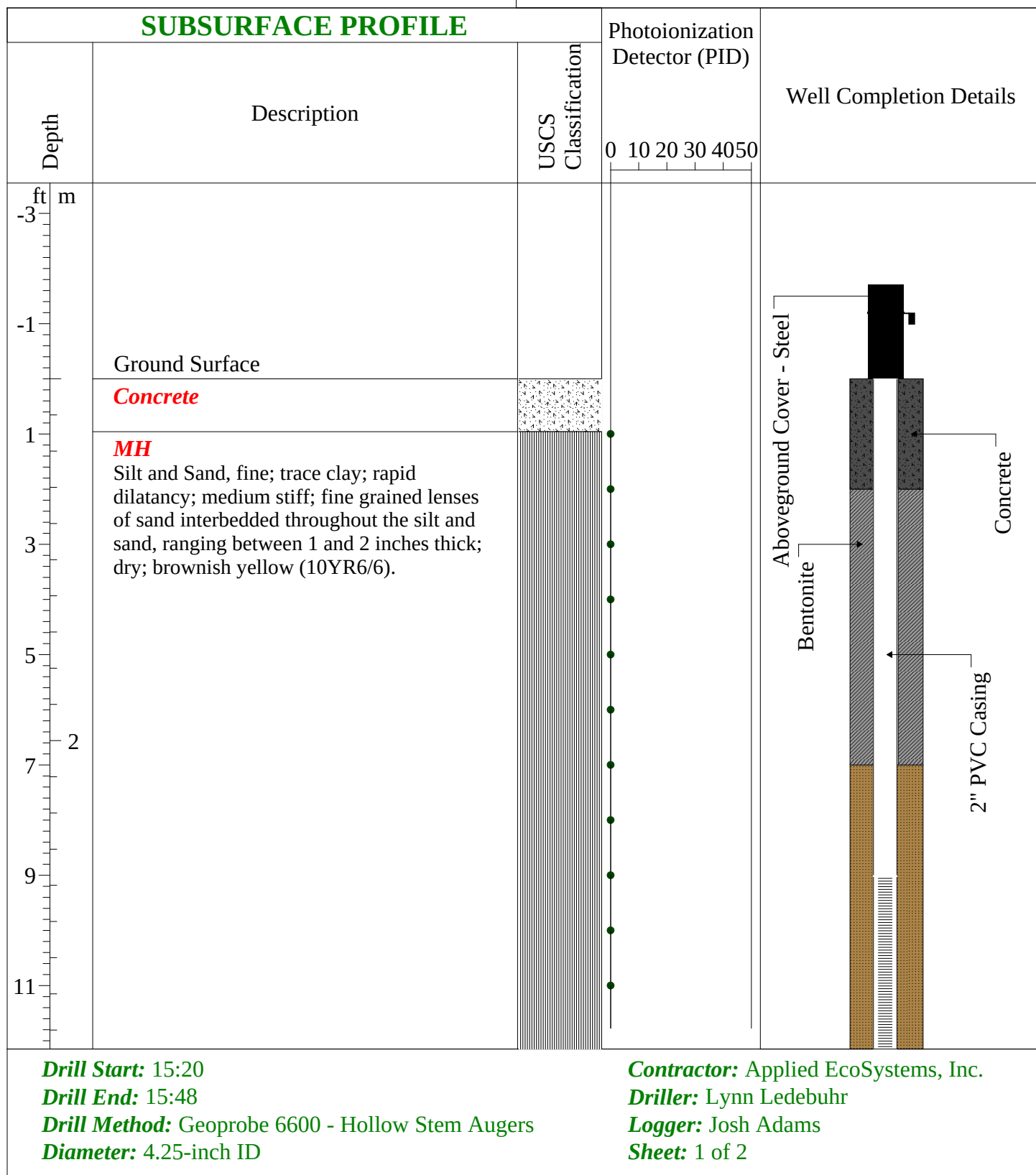
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 03/08/2012





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: MW-102S (03/08/2012)

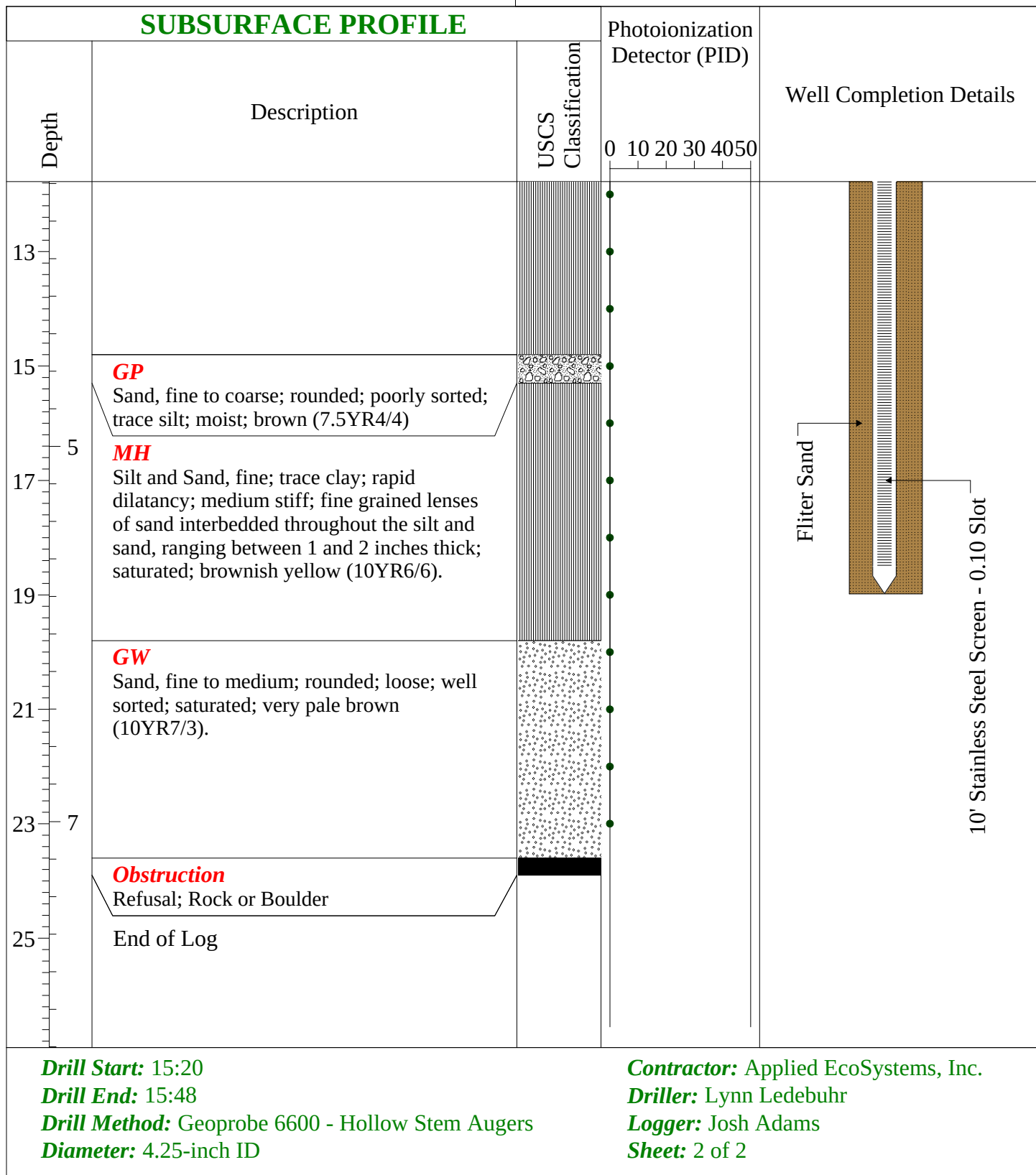
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 03/08/2012

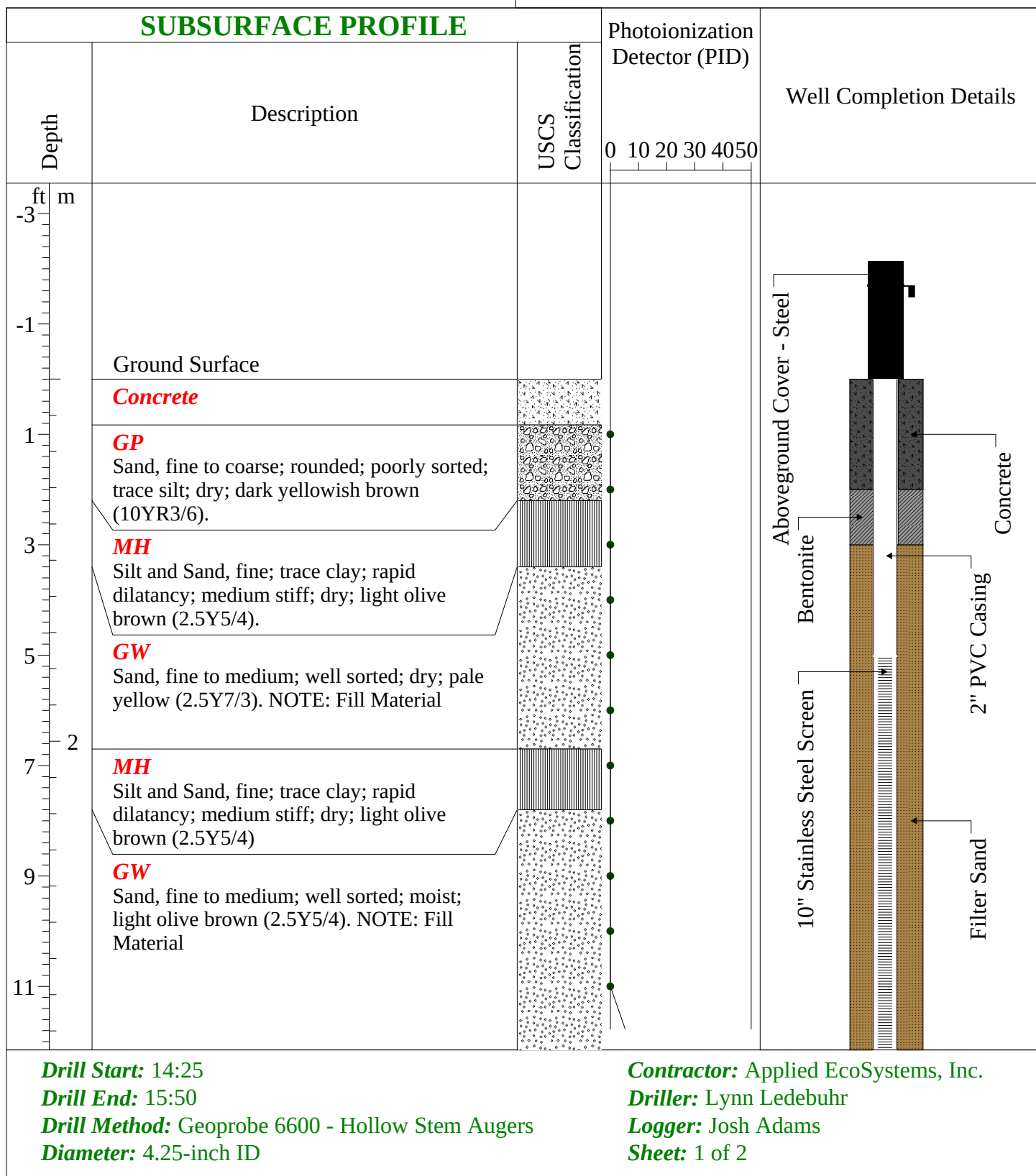




Applied EcoSystems
 Environmental Management, Consulting & Field Services
 G-4300 South Saginaw Street, Burton, Michigan 48529
 Phone: (810)715-2525 Fax: (810)715-2526

Log of Borehole: 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

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



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: 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

SUBSURFACE PROFILE			Photoionization Detector (PID)	Well Completion Details
Depth	Description	USCS Classification	0 10 20 30 40 50	
13	GP Sand, fine to medium; rounded; well sorted; trace silt; saturated; dark gray (2.5Y4/1). NOTE: Strong solvent/petroleum odor			
15				
17	CL Clay, some silt, medium plasticity; dry; light olive gray (5Y6/2). NOTE: Odor indicated.			
19	Rock CL Clay; trace sand, fine to coarse; poorly sorted; nonplastic; hard; light olive gray (5Y6/2). NOTE: Odor indicated.			
21				
23	End of Log			
25				

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

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



Applied EcoSystems, Inc.

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

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

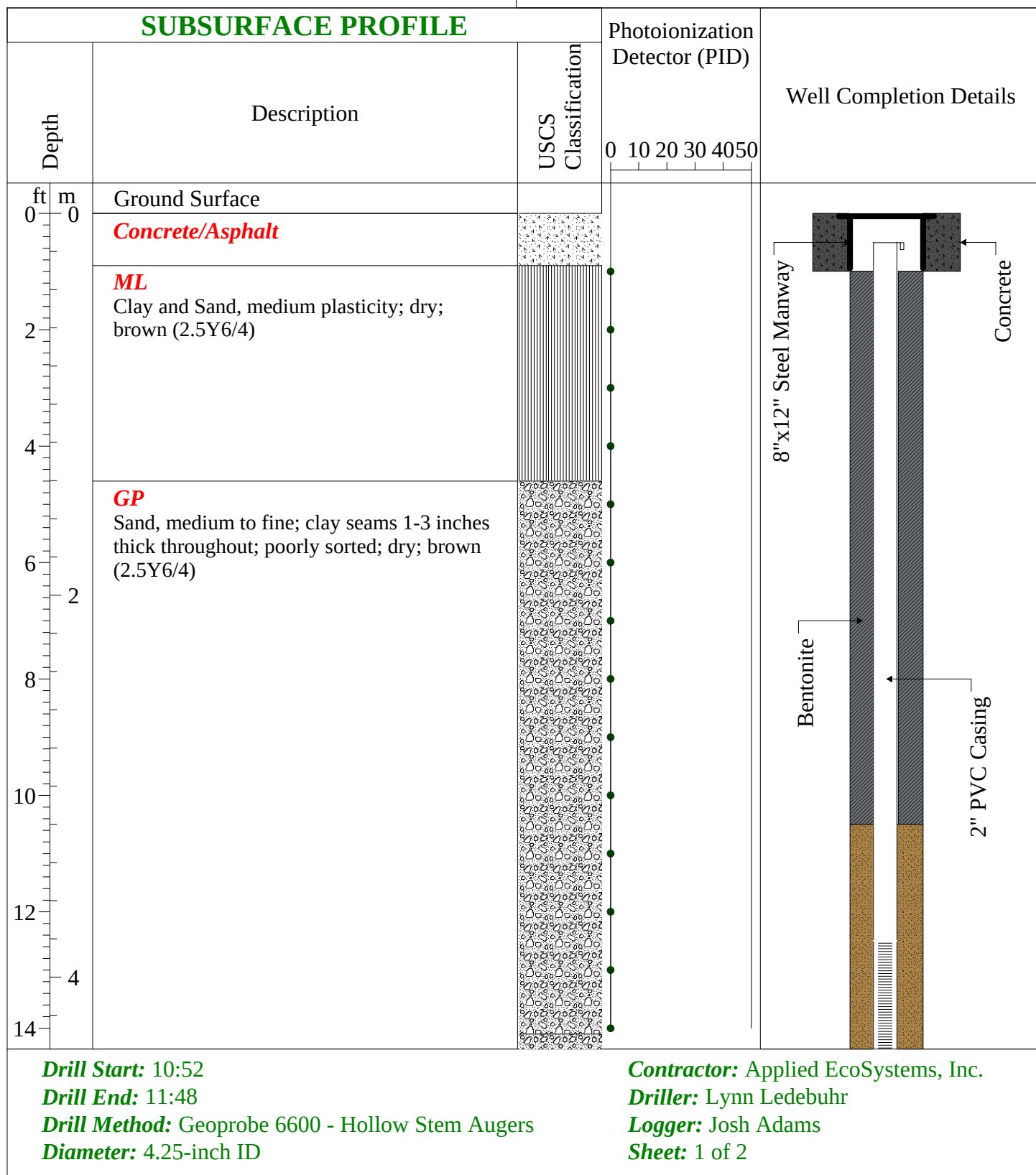
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012





Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012

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

Drill Start: 10:52

Drill End: 11:48

Drill Method: Geoprobe 6600 - Hollow Stem Augers

Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

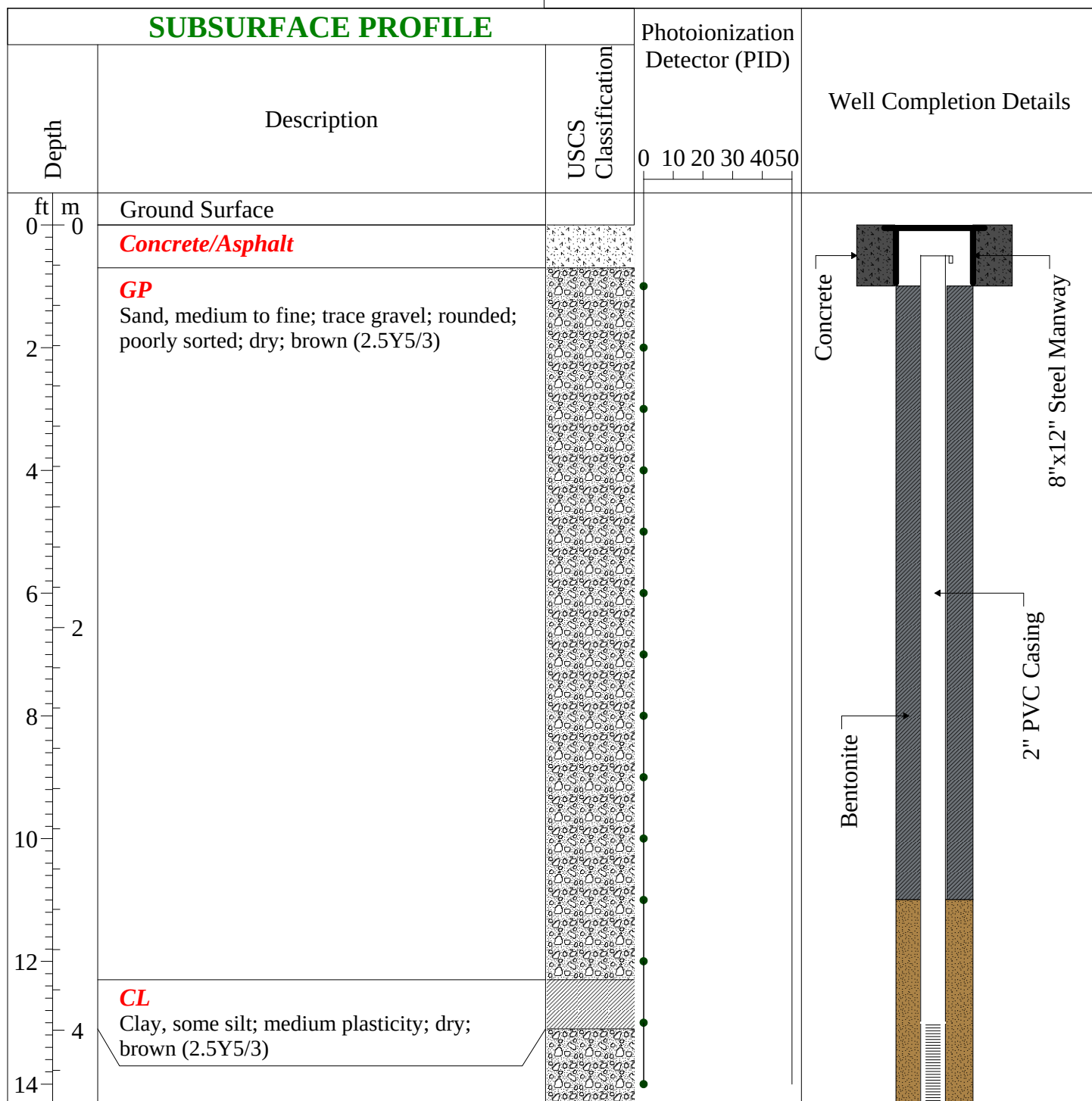
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012



Drill Start: 13:11

Drill End: 14:33

Drill Method: Geoprobe 6600 - Hollow Stem Augers

Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

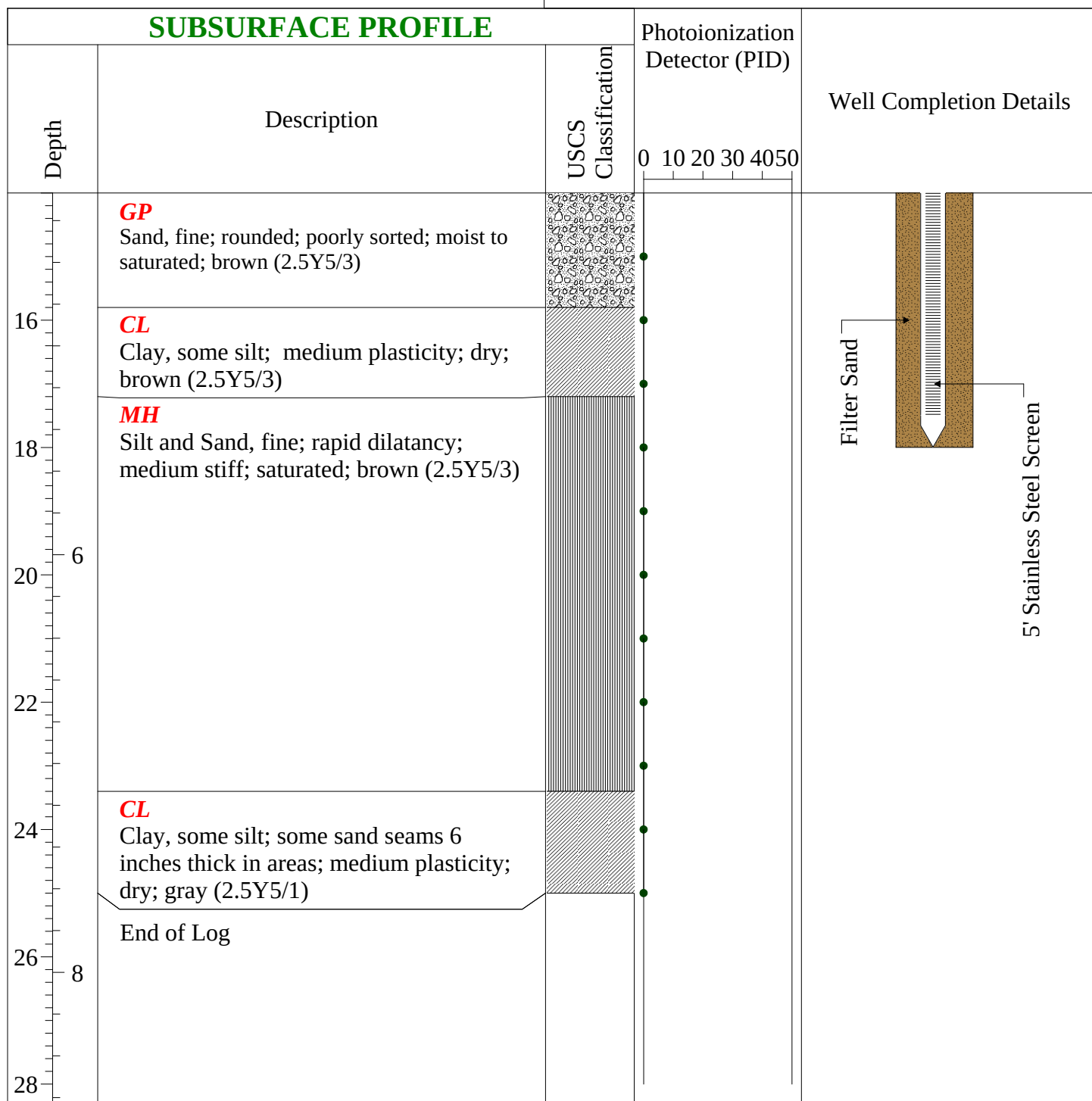
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/05/2012



Drill Start: 13:11

Drill End: 14:33

Drill Method: Geoprobe 6600 - Hollow Stem Augers

Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

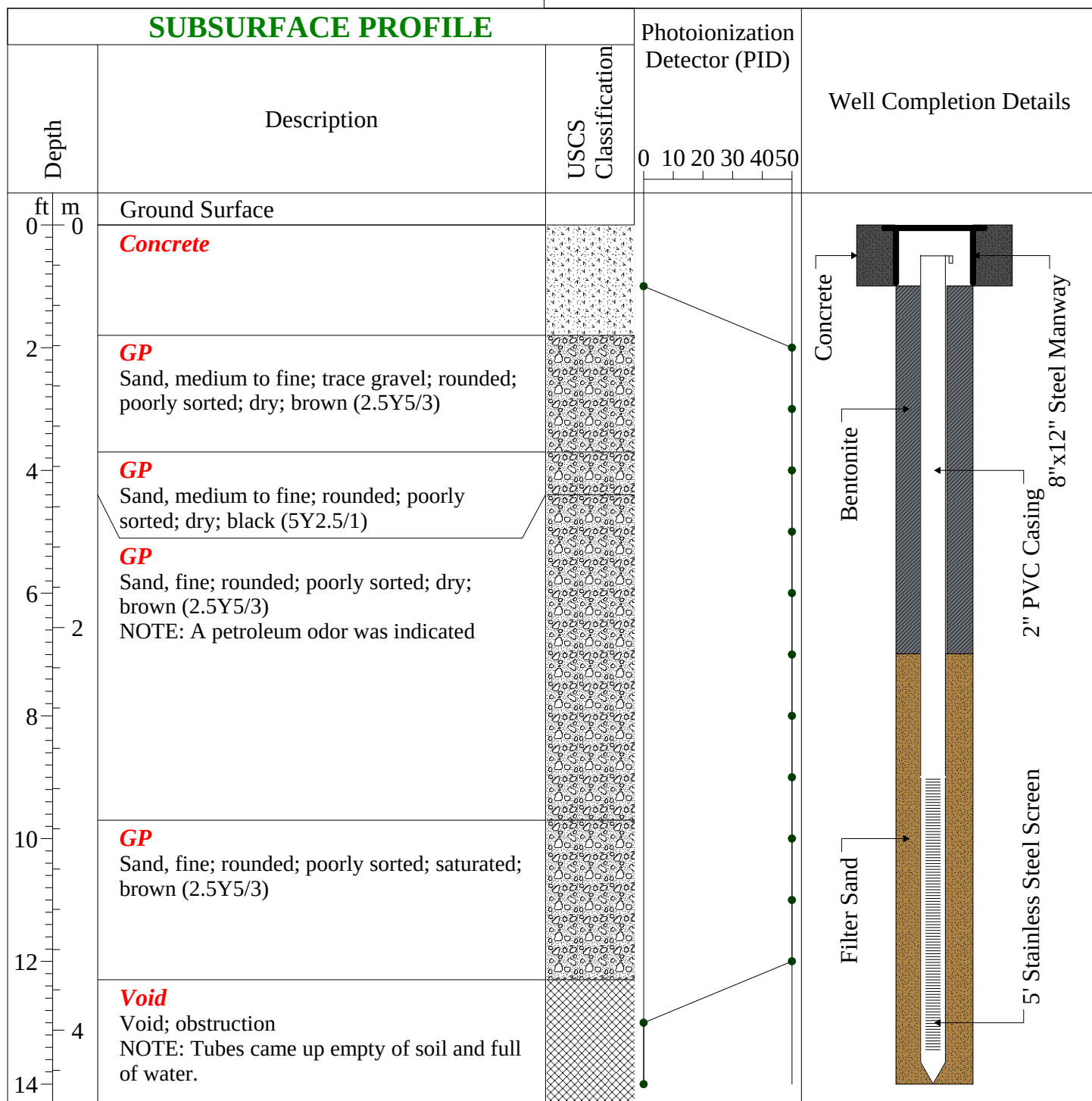
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/06/2012



Drill Start: 12:29

Drill End: 14:17

Drill Method: Geoprobe 6600 - Hollow Stem Augers

Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/06/2012

SUBSURFACE PROFILE			Photoionization Detector (PID)	Well Completion Details
Depth	Description	USCS Classification	0 10 20 30 40 50	
16				
18				
20				
22				
24	GP Sand, fine; rounded; trace gravel; poorly sorted; dry; gray (2.5Y5/1) NOTES: A petroleum odor was indicated.			
26	Clay was not reached at the bottom of the boring due to obstructions and large amounts of water with odor. It was decided not to drill deeper in fear of penetrating a deeper aquifer.			
28	End of Log			
Drill Start: 12:29 Drill End: 14:17 Drill Method: Geoprobe 6600 - Hollow Stem Augers Diameter: 4.25-inch ID			Contractor: Applied EcoSystems, Inc. Driller: Lynn Ledebuhr Logger: Josh Adams Sheet: 2 of 2	



Applied EcoSystems, Inc.

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

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

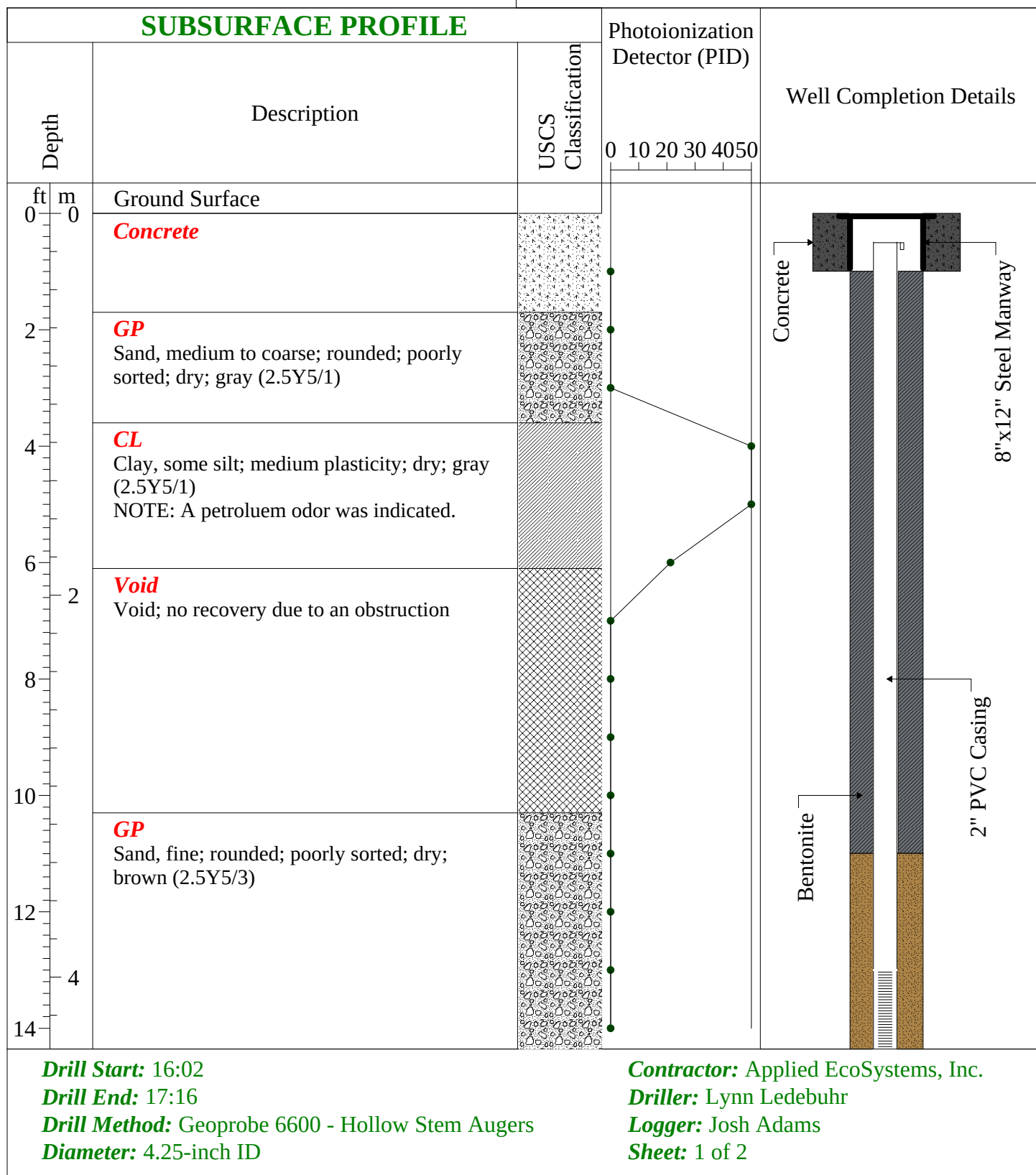
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/06/2012



Drill Start: 16:02

Drill End: 17:16

Drill Method: Geoprobe 6600 - Hollow Stem Augers

Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 1 of 2



Applied *Eco*Systems, Inc.

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

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

Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/06/2012

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

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

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



Applied EcoSystems, Inc.

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

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

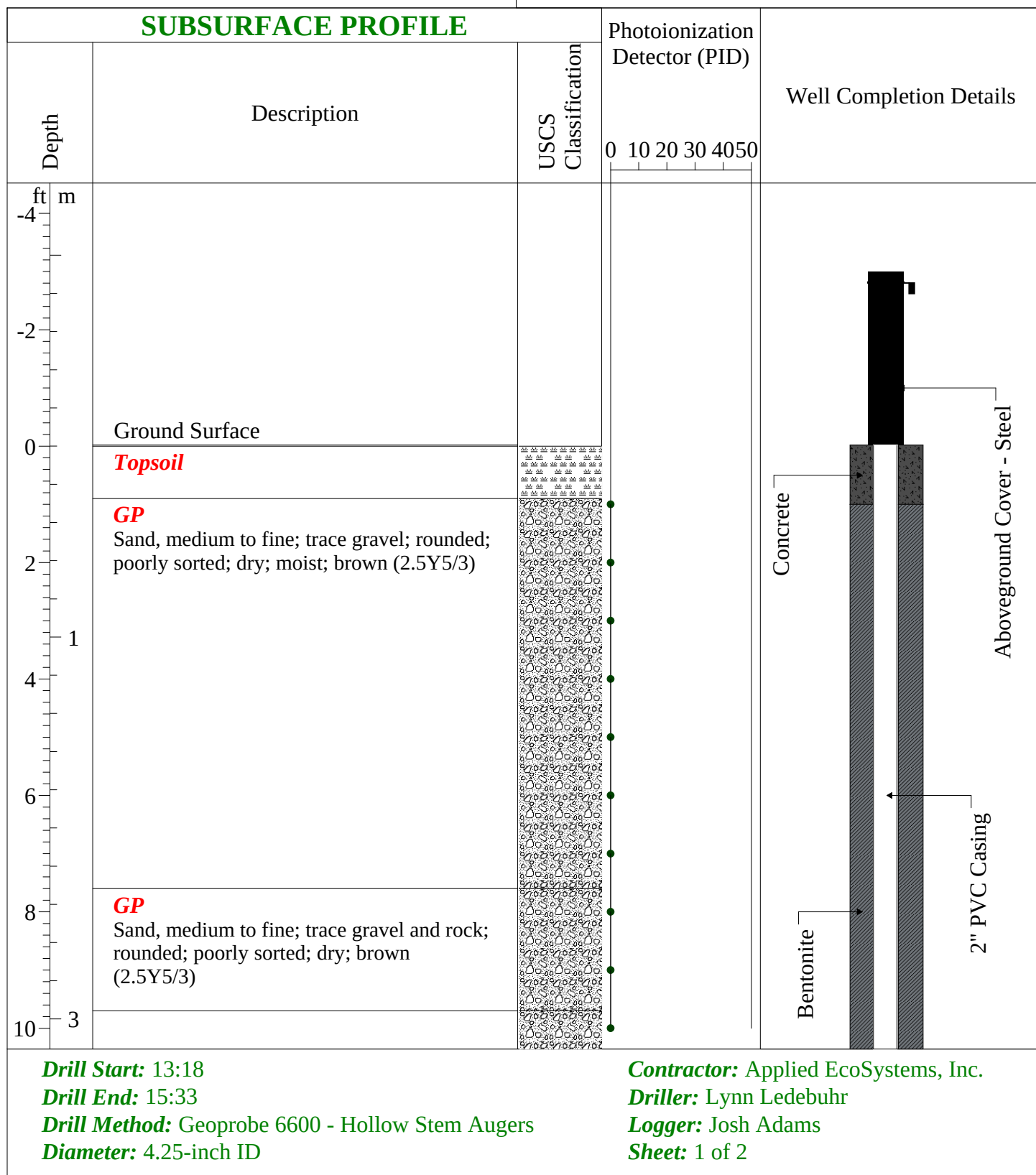
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/10/2012





Applied *Eco*Systems, Inc.

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

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

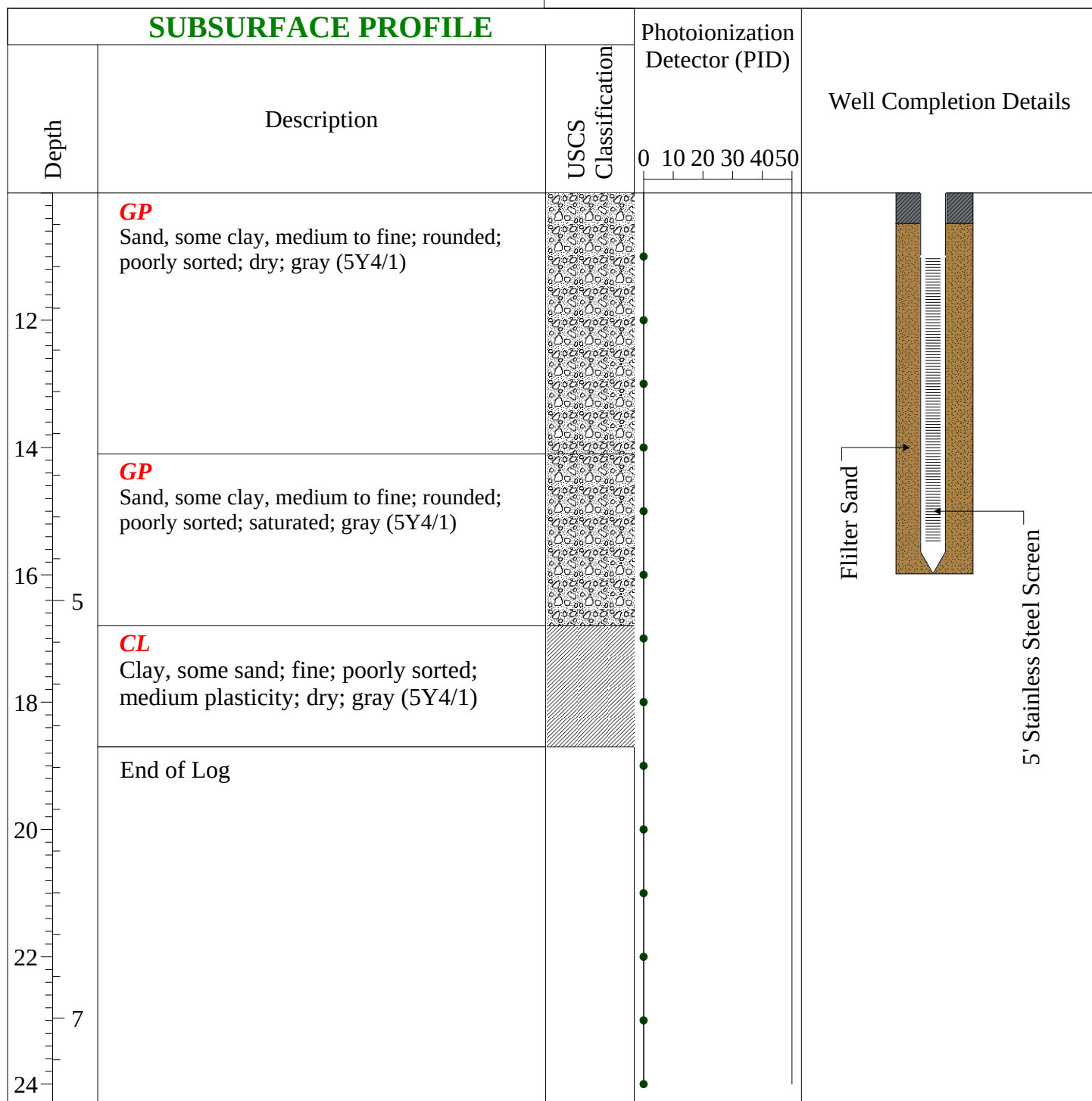
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/10/2012



Drill Start: 13:18

Drill End: 15:33

Drill Method: Geoprobe 6600 - Hollow Stem Augers

Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

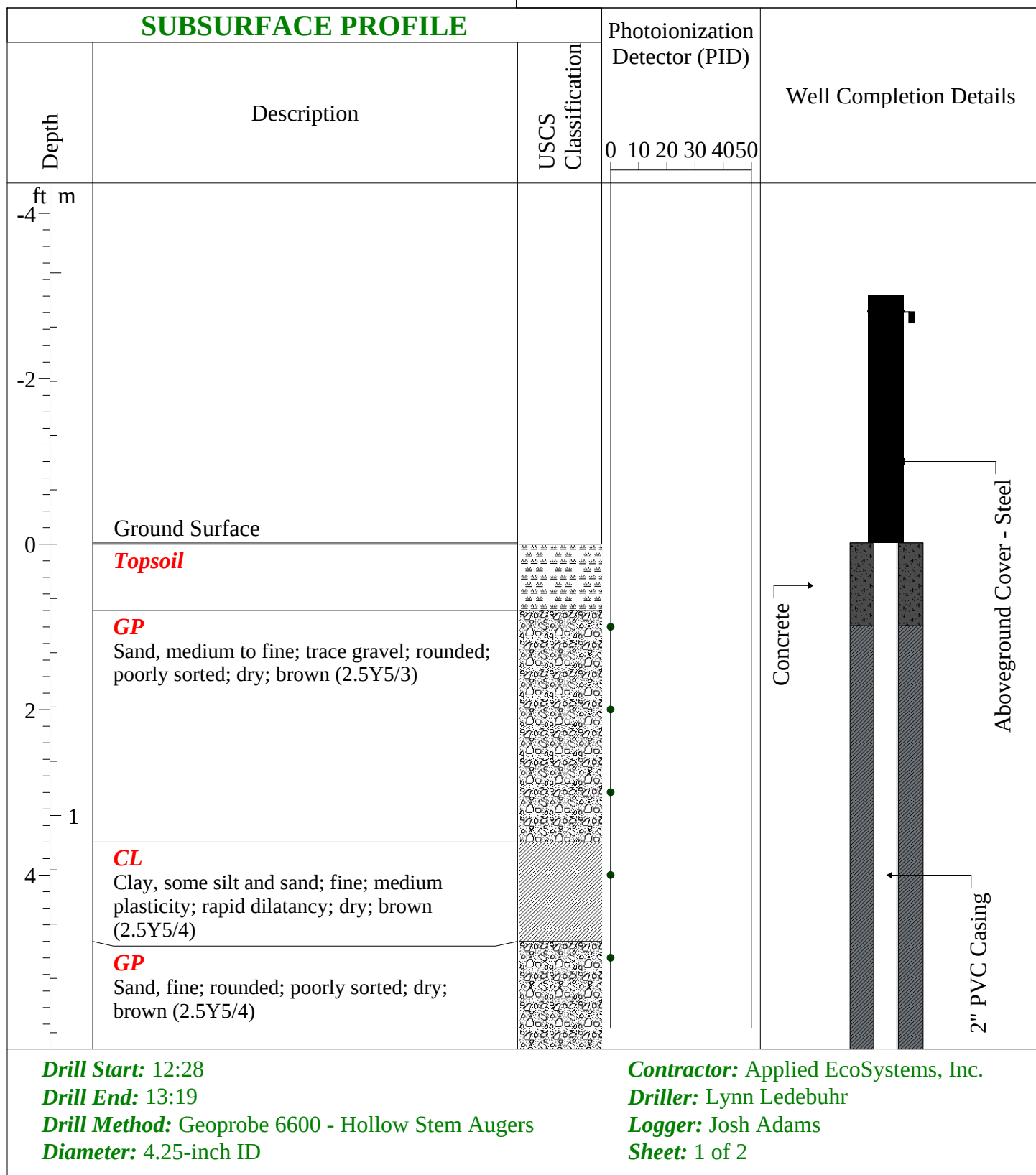
Sheet: 2 of 2



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

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

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





Applied EcoSystems, Inc.

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

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

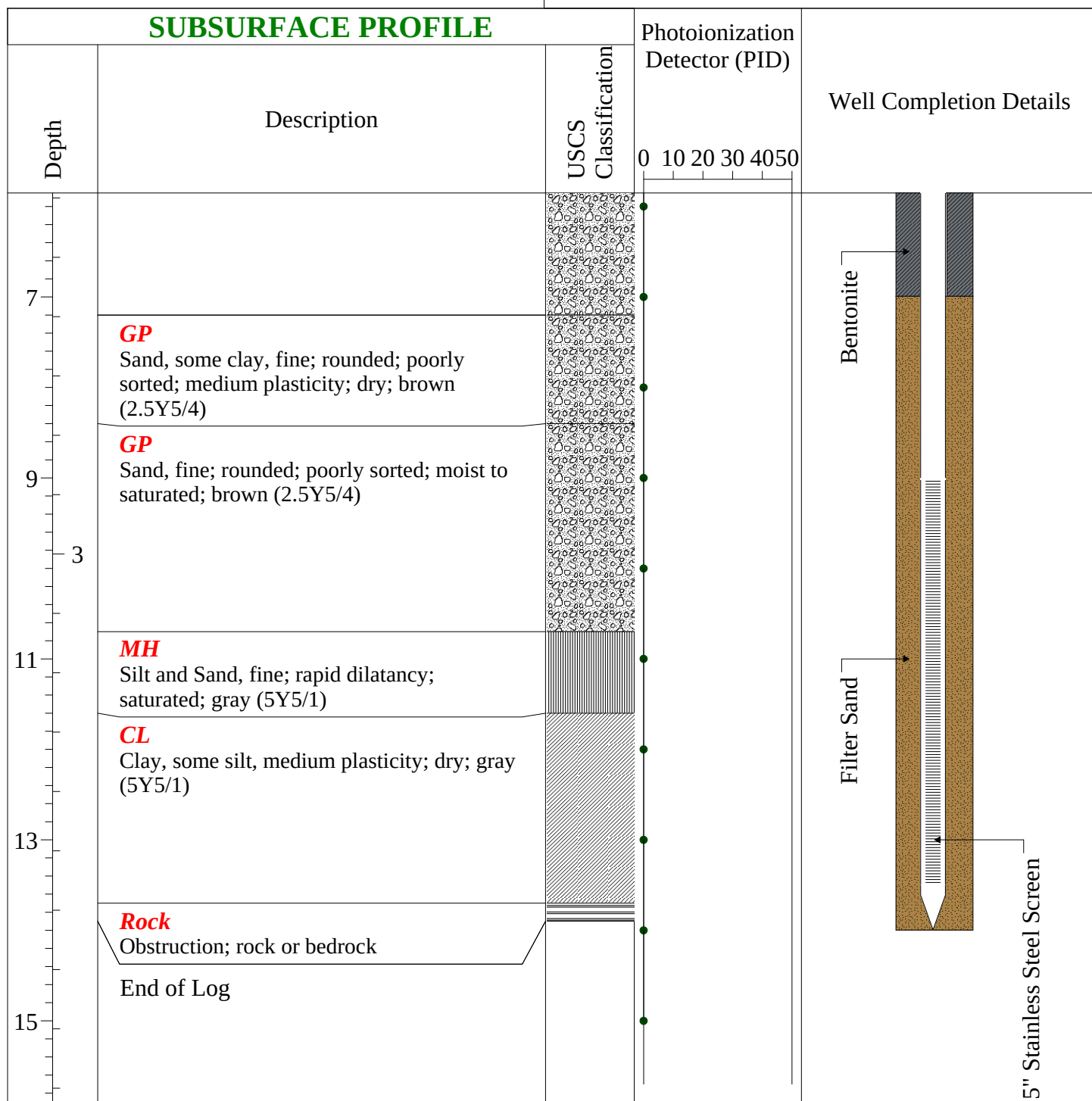
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012



Drill Start: 12:28

Drill End: 13:19

Drill Method: Geoprobe 6600 - Hollow Stem Augers

Diameter: 4.25-inch ID

Contractor: Applied EcoSystems, Inc.

Driller: Lynn Ledebuhr

Logger: Josh Adams

Sheet: 2 of 2



Applied EcoSystems, Inc.

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

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

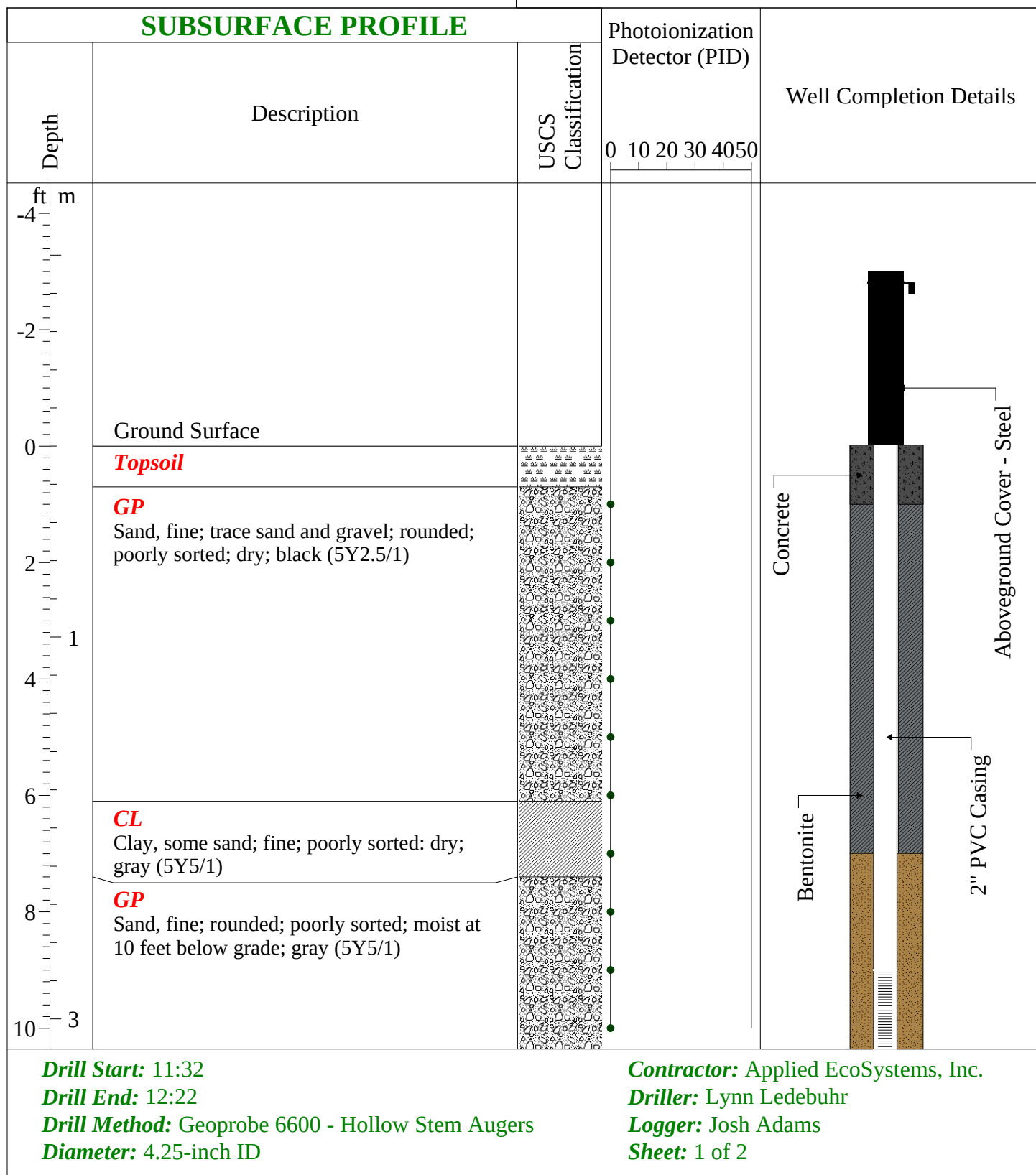
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012





Applied *Eco*Systems, Inc.

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

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

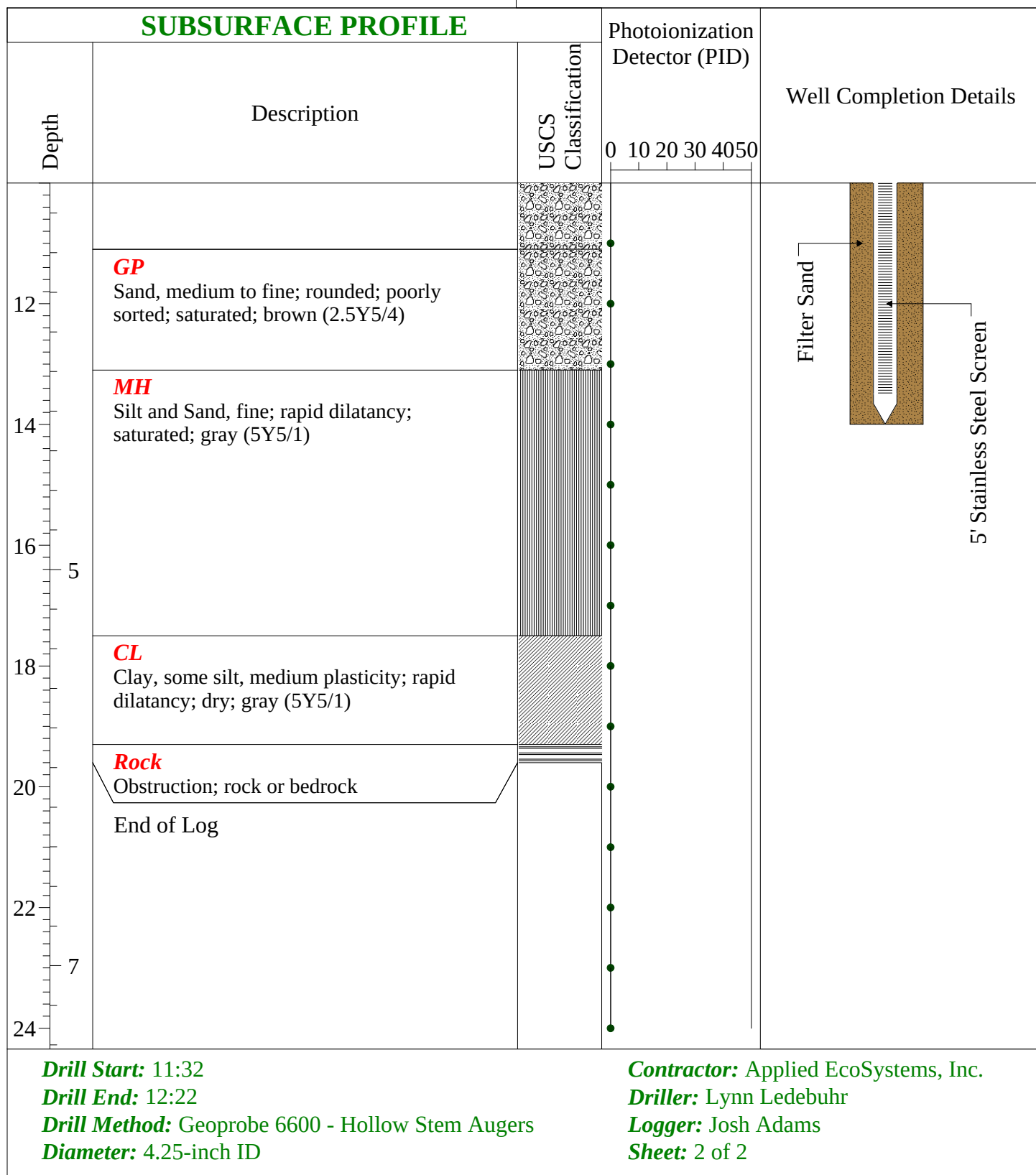
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012





Applied *Eco*Systems, Inc.

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

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

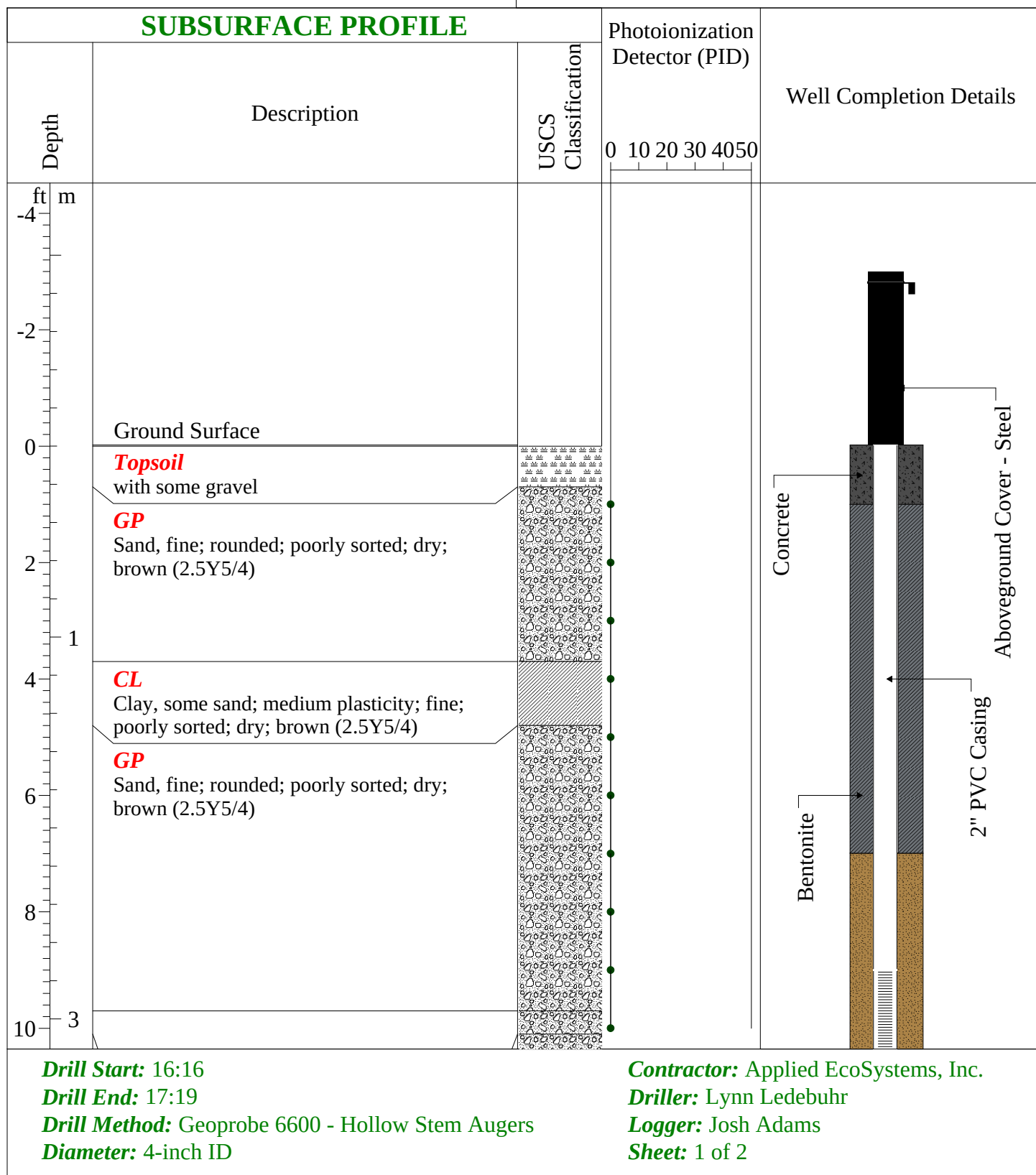
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012





Applied *Eco*Systems, Inc.

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

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

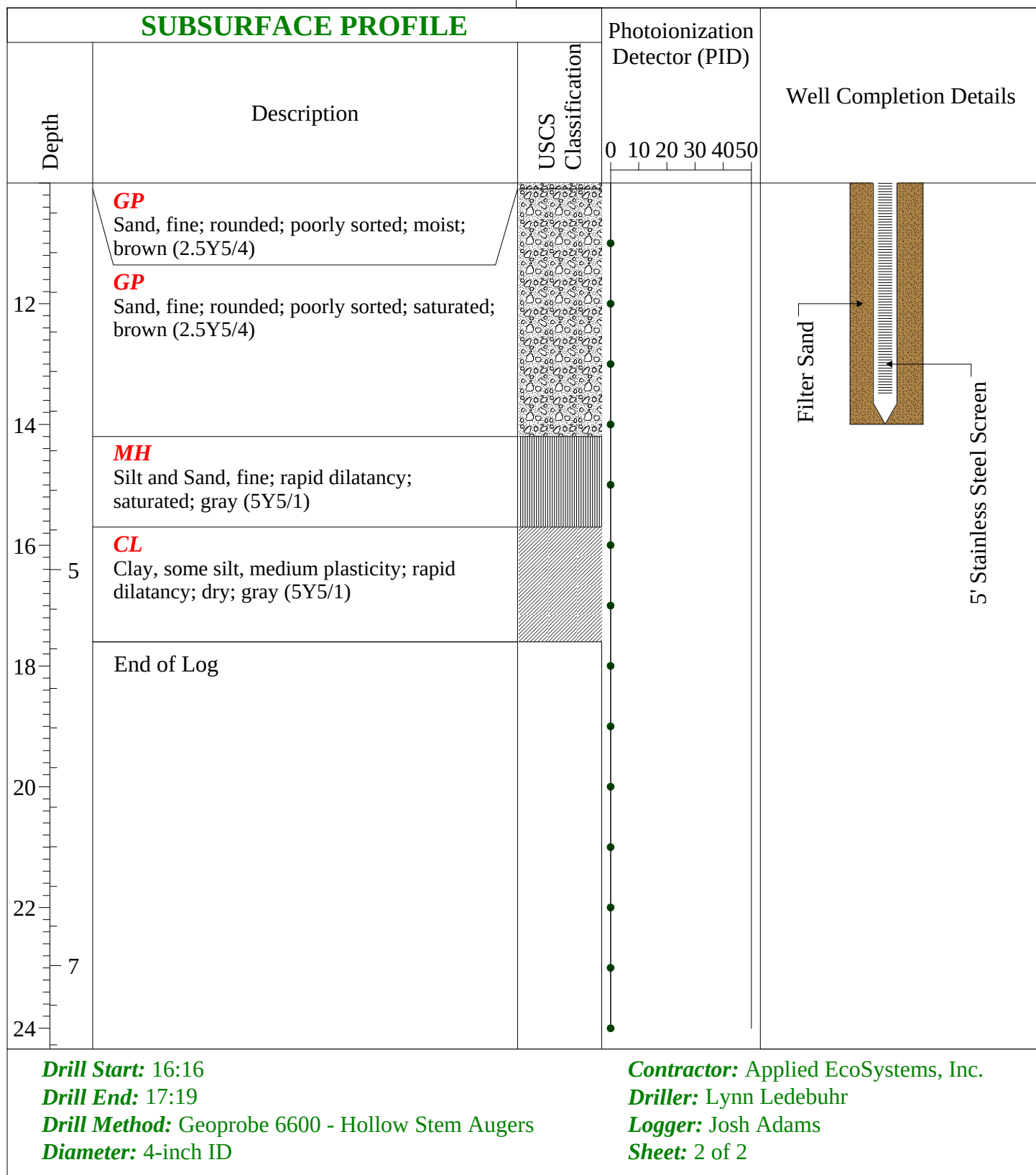
Project Number: 11-4317-102

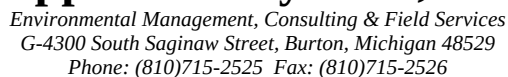
Project Name: 100-12990-0012 (Former Building 9)

Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 12/11/2012





Drill Date: 04/26/2013





Applied EcoSystems, Inc.

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

Log of Borehole: MW-106SR (04/26/2013)

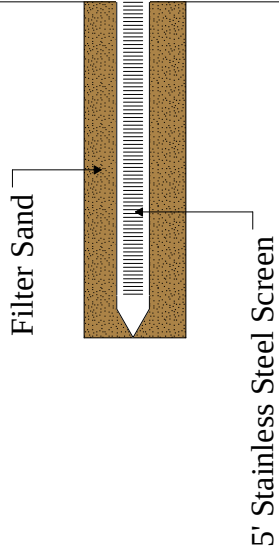
Project Number: 11-4317-102

Project Name: 100-12990-0012 (Former Building 9)

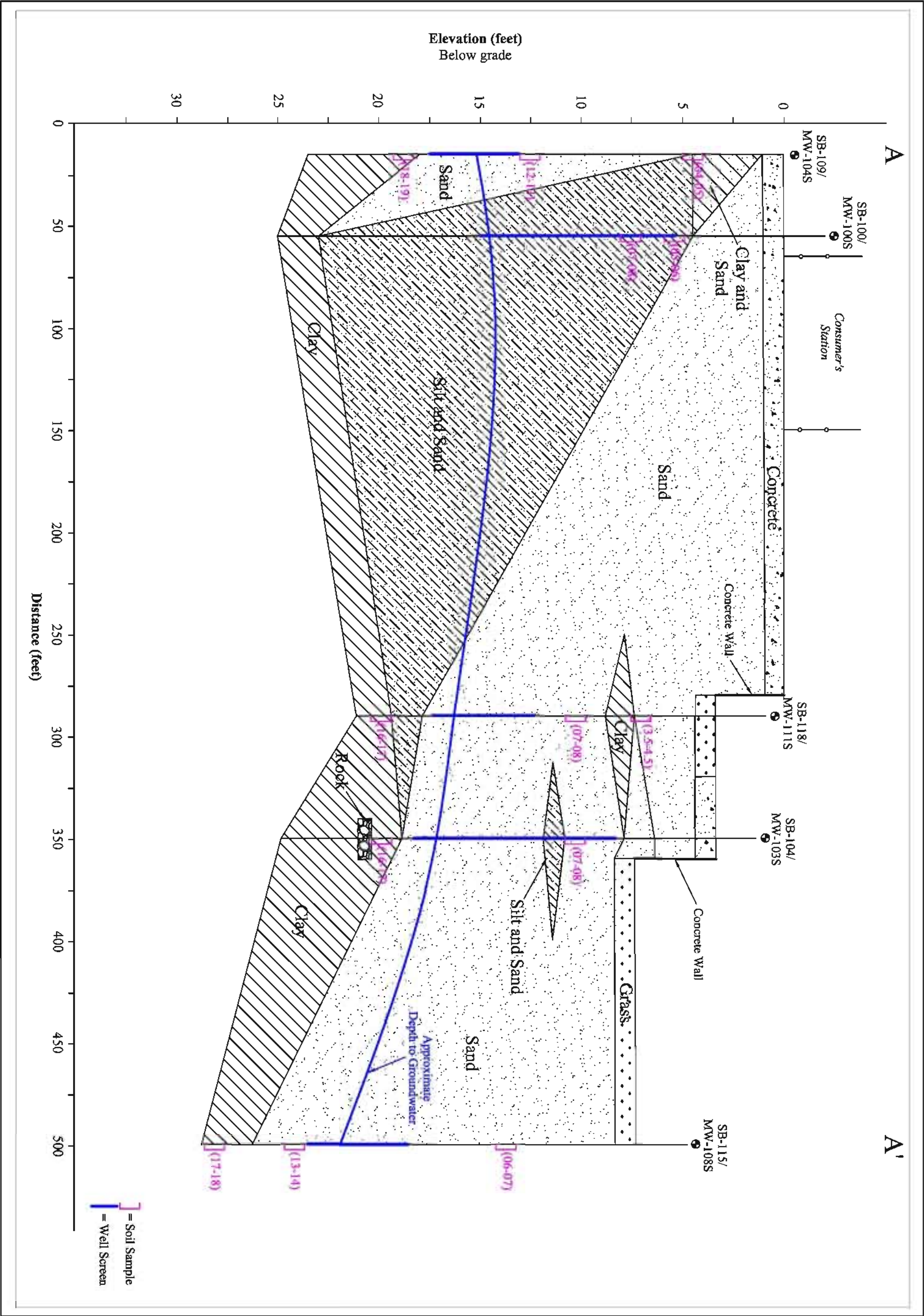
Address: Delphi - Flint West Facility

City: Flint, Michigan

Drill Date: 04/26/2013

SUBSURFACE PROFILE			Photoionization Detector (PID)	Well Completion Details	
Depth	Description	USCS Classification	0 10 20 30 40 50		
16				 Filter Sand 5' Stainless Steel Screen	
18					
20					
22					
24	GP Sand, fine; rounded; trace gravel; poorly sorted; dry; gray (2.5Y5/1) NOTES: A petroleum odor was indicated.				
26	Clay was not reached at the bottom of the boring due to obstructions and large amounts of water with odor. It was decided not to drill deeper in fear of penetrating a deeper aquifer.				
28	End of Log				
Drill Start: 10:11 Drill End: 11:23 Drill Method: Geoprobe 6600 - Hollow Stem Augers Diameter: 4.25-inch ID			Contractor: Applied EcoSystems, Inc. Driller: Lynn Ledebuhr Logger: Josh Adams Sheet: 2 of 2		

ATTACHMENT #3: CROSS SECTION DIAGRAMS



Cross Section Diagram

A - A'

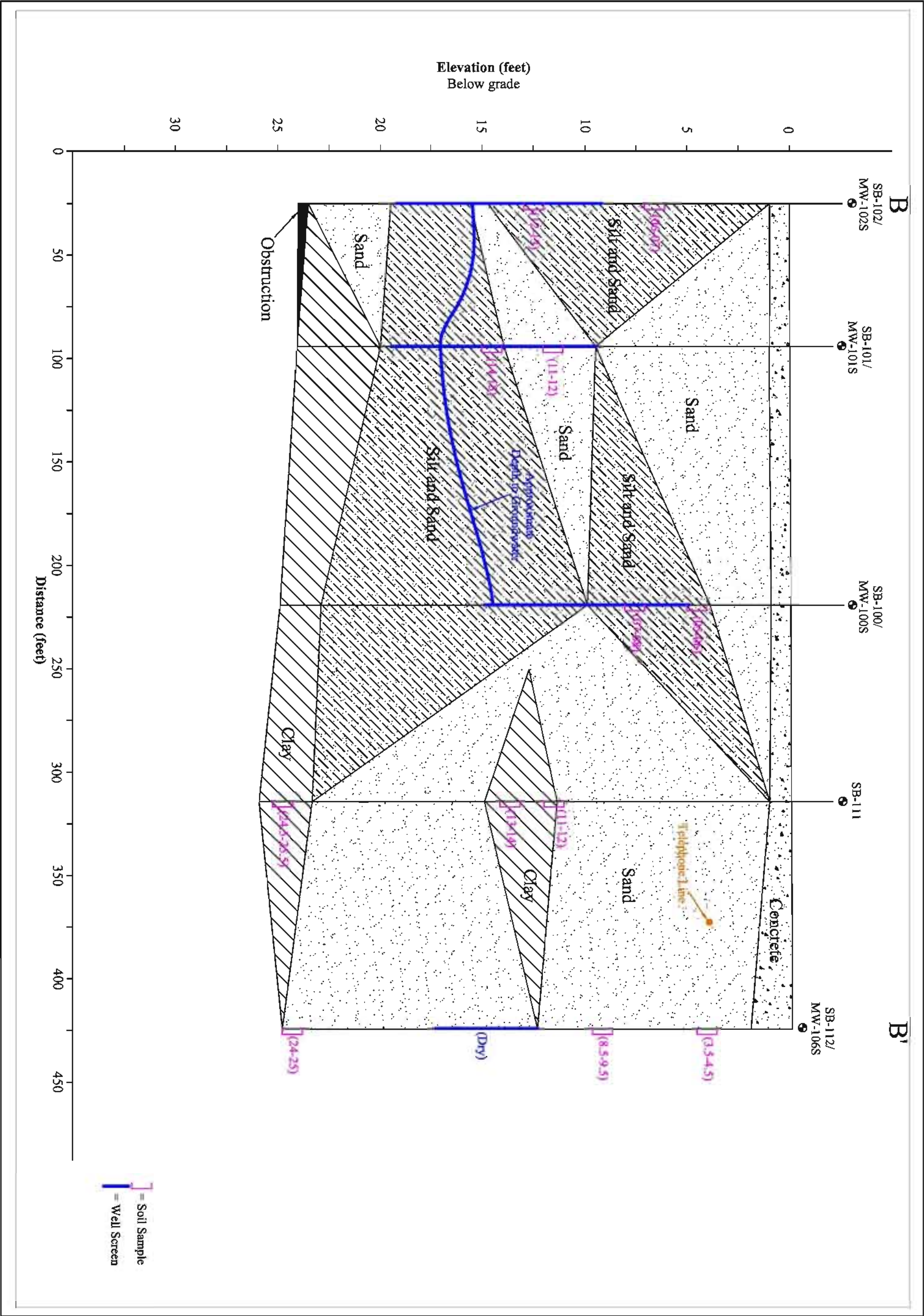
Delphi - Flint West Facility
Former Building 9
Flint, Michigan
100-12990-0012

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



Applied EcoSystems, Inc.

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



ATTACHMENT #4: SOIL AND GROUNDWATER ANALYTICAL TABLES



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

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

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

Applied EcoSystems, Inc.									
Environmental Management, Consulting & Field Services									
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	3/12-14/2012			
Analytical Method Number	Multiple	Multiple	Multiple	Multiple	Multiple	Multiple			
CONSTITUENT (mg/kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chromium VI	18540-29-9	ND	1	ND	1	ND	1	ND	1
Cyanide	57-12-5	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			
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
Arsenic	7440-38-2	1.15	0.10	1.64	0.10	1.43	0.10	1.58	0.39
Barium	7440-39-3	37.90	1.00	37.10	1.00	4.02	1.00	26.10	0.90
Cadmium	7440-43-9	ND	0.20	ND	0.20	ND	0.20	ND	0.20
Chromium	7440-47-3	2.90	0.50	3.19	0.50	0.89	0.50	4.27	0.50
Copper	7440-50-8	3.05	0.50	4.35	0.50	0.52	0.50	21.10	0.71
Lead	7439-92-1	6.29	0.30	6.08	0.30	0.95	0.30	15.20	0.30
Mercury	7439-97-6	ND	0.05	ND	0.05	ND	0.05	0.058	0.05
Selenium	7782-49-2	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
Zinc	7440-66-5	10.10	1.00	15.00	1.00	1.77	1.00	27.10	2.19
POLYCHLORINATED BIPHENYLS (PCB) 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	602A	602A	602A	602A	602A	602A			
CONSTITUENT (ug/kg)	CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	330	ND	330	ND	330	ND	330
PCB-1242	53459-21-9	ND	330	ND	330	ND	330	ND	330
PCB-1221	11104-28-2	ND	330	ND	330	ND	330	ND	330
PCB-1232	11141-16-5	ND	330	ND	330	ND	330	ND	330
PCB-1248	12672-29-5	ND	330	ND	330	ND	330	ND	330
PCB-1254	11067-69-1	ND	330	ND	330	ND	330	ND	330
PCB-1260	11055-82-5	ND	330	ND	330	ND	330	ND	330

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

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

Applied EcoSystems, Inc.		SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)									
Environmental Management, Consulting & Field Services		FACILITY NAME: Flint West Industrial Land (100-12990-0012)									
		Stevenson Street and Glenwood Avenue									
		Flint, Michigan									
		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)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
		SB-102 (03/08/2012) (12-13)									
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Applied EcoSystems, Inc.
Environmental Management, Consulting & Field Services

Applied EcoSystems, Inc.													
Environmental Management, Consulting & Field Services													
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	
Date Analyzed		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
Analysis Method Number		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ppb/g)		CAS #		MDL		Conc		MDL		Conc		MDL	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
2,4-Dichlorophenol		120-63-2	ND	330	ND	330	ND	330	ND	330	ND	330	330
Diethyl phthalate		84-66-2	ND	330	ND	330	ND	330	ND	330	ND	330	330
2,4-Dimethylphenol		105-67-9	ND	330	ND	330	ND	330	ND	330	ND	330	330
Dimethyl phthalate		131-11-3	ND	330	ND	330	ND	330	ND	330	ND	330	330
4,6-Dinitro-2-methylphenol		534-52-1	ND	830	ND	830	ND	830	ND	830	ND	830	830
2,4-Dinitrophenol		51-28-5	ND	830	ND	830	ND	830	ND	830	ND	830	830
2,4-Dinitrotoluene		121-14-2	ND	330	ND	330	ND	330	ND	330	ND	330	330
2,6-Dinitrotoluene		606-20-2	ND	330	ND	330	ND	330	ND	330	ND	330	330
1,2-Diphenylhydrazine		122-68-7	ND	330	ND	330	ND	330	ND	330	ND	330	330
di-n-Octyl phthalate		117-84-0	ND	330	ND	330	ND	330	ND	330	ND	330	330
Fluoranthene		206-44-0	ND	330	ND	330	ND	330	ND	330	ND	330	330
Fluorene		86-73-7	ND	330	ND	330	ND	330	ND	330	ND	330	330
Hexachlorobenzene		118-74-1	ND	330	ND	330	ND	330	ND	330	ND	330	330
Hexachlorobutadiene		87-68-3	ND	330	ND	330	ND	330	ND	330	ND	330	330
Hexachlorocyclopentadiene		77-47-4	ND	330	ND	330	ND	330	ND	330	ND	330	330
Hexachloroethane		67-72-1	ND	330	ND	330	ND	330	ND	330	ND	330	330
Indeno(1,2,3-cd)pyrene		193-39-5	ND	330	ND	330	ND	330	ND	330	ND	330	330
Isophorone		78-59-1	ND	330	ND	330	ND	330	ND	330	ND	330	330
2-Methylnaphthalene		91-57-6	ND	330	ND	330	ND	330	ND	330	ND	330	330
Naphthalene		91-20-3	ND	330	ND	330	ND	330	ND	330	ND	330	330
2-Nitroaniline		88-74-4	ND	830	ND	830	ND	830	ND	830	ND	830	830
3-Nitroaniline		99-09-2	ND	830	ND	830	ND	830	ND	830	ND	830	830
4-Nitroaniline		100-01-6	ND	830	ND	830	ND	830	ND	830	ND	830	830
Nitrobenzene		98-95-3	ND	330	ND	330	ND	330	ND	330	ND	330	330
2-Nitrophenol		88-75-5	ND	330	ND	330	ND	330	ND	330	ND	330	330
4-Nitrophenol		100-02-7	ND	830	ND	830	ND	830	ND	830	ND	830	830
N-Nitrosodiphenylamine		86-30-6	ND	330	ND	330	ND	330	ND	330	ND	330	330
N-Nitrosod-n-propylamine		621-64-7	ND	330	ND	330	ND	330	ND	330	ND	330	330
Pentachlorophenol		87-86-5	ND	330	ND	330	ND	330	ND	330	ND	330	330

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected



Applied EcoSystems, Inc.
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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 (02/08/2012) (04-07)	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 (ppb/Kg)	CAS #	MDL	Conc	MDL	Conc	MDL
Pentachloro	85-01-8	ND	330	ND	330	ND
Phenol	119-95-2	ND	330	ND	330	ND
Pyrene	129-00-0	ND	330	ND	330	ND
1,2,4-Trichlorobenzene	120-82-1	ND	330	ND	330	ND
95-85-4	ND	330	ND	330	ND	330
2,4,5-Trichlorophenol	95-85-4	ND	330	ND	330	ND
2,4,6-Trichlorophenol	88-06-2	ND	330	ND	330	ND
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 (ppb/Kg)	CAS #	MDL	Conc	MDL	Conc	MDL
Diethyl ether	60-29-7	ND	300	ND	300	ND
Acetone	67-64-7	ND	2,000	ND	2,000	ND
Methyl iodide	74-88-4	ND	200	ND	200	ND
Carbon disulfide	75-15-0	ND	400	ND	400	ND
tert-Butyl methyl ether (MTBE)	1634-24-4	ND	300	ND	300	ND
Acetonitrile	107-13-1	ND	200	ND	200	ND
2-Butanone (MEK)	78-93-3	ND	1,200	ND	1,200	ND
Dichlorodifluoromethane	75-71-8	ND	400	ND	400	ND
Chloroethane	74-47-3	ND	400	ND	400	ND
Vinyl chloride	75-01-4	ND	90	ND	70	ND
Bromomethane	74-83-9	ND	300	ND	300	ND
Chloroethane	75-00-3	ND	400	ND	400	ND
Trichlorofluoromethane	75-69-4	ND	200	ND	200	ND
1,1-Dichloroethene	75-35-4	ND	90	ND	70	ND
Methylene chloride	75-09-2	ND	200	ND	200	ND
trans-1,2-Dichloroethene	156-60-5	ND	80	ND	70	ND
1,1-Dichloroethane	75-34-3	ND	90	ND	70	ND
cis-1,2-Dichloroethene	156-59-2	ND	80	ND	70	ND
Caraldehyde	109-90-9	ND	2,000	ND	2,000	ND

[illegible]

Results in parts per billion

N/A = Not Analyzed

ND = Not Detected

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

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	
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 (µg/L)		Conc		MDL		Conc		MDL		Conc		MDL	
CAS #		Conc		MDL		Conc		MDL		Conc		MDL	
Chloroform	67-66-3	ND	80	ND	100	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-Allyl-2-pentanone (MIBK)	108-10-1	ND	4,000	ND	4,000	ND	4,000	ND	4,000	ND	3,000	ND	3,000
2-Hexanone	591-78-3	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
Trichloroethane	79-01-6	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
1,2-Dichloropropane	78-87-5	ND	80	ND	90	ND	70	ND	80	ND	60	ND	60
Bromochloromethane	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
1,1,1,3-Tetrachloropropane	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	10081-02-6	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	100	ND	200	ND	100	ND	100
1,2-Dibromopropane	106-93-4	ND	30	ND	30	ND	30	ND	30	ND	30	ND	30
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	95-47-8	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

Applied EcoSystems, Inc.									
Environmental Management, Consulting & Field Services									
SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)									
FACILITY NAME: Flint West Industrial Land (100-12990-2012)									
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 (uol/kg)	CAS#	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc
1,2,3-Trichloropropane	96-18-4	ND	200	ND	200	ND	200	ND	200
n-Propylbenzene	103-65-1	ND	200	ND	200	ND	200	ND	200
Bromobenzene	108-96-1	ND	200	ND	200	ND	200	ND	200
1,3,5-Trimethylbenzene	108-67-8	ND	200	ND	200	ND	200	ND	200
tert-Butylbenzene	98-06-6	ND	80	ND	80	ND	80	ND	80
1,2,4-Trimethylbenzene	95-63-6	ND	200	ND	200	ND	200	ND	200
sec-Butylbenzene	135-98-8	ND	80	ND	80	ND	80	ND	80
p-Propyltoluene	99-87-6	ND	200	ND	200	ND	200	ND	200
1,3-Dichlorobenzene	941-73-1	ND	200	ND	200	ND	200	ND	200
1,4-Dichlorobenzene	106-46-7	ND	200	ND	200	ND	200	ND	200
1,2-Dichlorobenzene	95-50-1	ND	200	ND	200	ND	200	ND	200
1,2,3-Trimethylbenzene	528-73-8	ND	200	ND	200	ND	200	ND	200
n-Butylbenzene	104-51-8	ND	80	ND	80	ND	80	ND	80
Hexachloroethane	67-72-1	ND	500	ND	500	ND	500	ND	500
1,2-Dibromo-3-chloropropane	96-12-8	ND	400	ND	400	ND	400	ND	400
1,2,4-Trichlorobenzene	120-82-1	ND	540	ND	540	ND	540	ND	540
1,2,3-Trichlorobenzene	87-61-6	ND	540	ND	540	ND	540	ND	540
Naphthalene	91-20-3	ND	540	ND	540	ND	540	ND	540
Methylnaphthalene	91-57-6	ND	540	ND	540	ND	540	ND	540

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected

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

Applied EcoSystems, Inc.									
Environmental Management, Consulting & Field Services									
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 (imp/kg)	CAS#	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Chromium VI	18540-29-8	ND	1	ND	1	NA	NA	NA	NA
Cyanide	57-12-5	ND	0.15	ND	0.15	NA	NA	NA	NA
METALS									
Date Analyzed	3/13/2012	3/13/2012	3/13/2012	NA	NA	NA			
Analytical Method Number	6020, 7471A	6020, 7471A	6020, 7471A	NA	NA	NA			
CONSTITUENT (imp/kg)	CAS#	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
Arsenic	7440-39-2	1.51	0.10	1.05	0.10	NA	NA	NA	NA
Barium	7440-39-3	27.90	1.00	9.98	1.00	NA	NA	NA	NA
Cadmium	7440-43-8	ND	0.20	ND	0.20	NA	NA	NA	NA
Chromium	7440-47-3	2.73	0.50	1.43	0.50	NA	NA	NA	NA
Copper	7440-50-8	3.94	0.50	5.41	0.50	NA	NA	NA	NA
Lead	7439-92-1	3.61	0.30	3.81	0.30	NA	NA	NA	NA
Mercury	7439-97-6	ND	0.05	ND	0.05	NA	NA	NA	NA
Selenium	7782-49-2	ND	0.50	ND	0.50	NA	NA	NA	NA
Silver	7440-22-4	ND	0.20	ND	0.20	NA	NA	NA	NA
Zinc	7440-66-6	8.93	1.00	11.20	1.00	NA	NA	NA	NA
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES									
Date Analyzed	3/12/2012	3/12/2012	3/12/2012	NA	NA	NA			
Date Extracted	3/12/2012	3/12/2012	3/12/2012	NA	NA	NA			
Analytical Method Number	8082A	8082A	8082A	NA	NA	NA			
CONSTITUENT (imp/kg)	CAS#	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL
PCB-1016	12674-11-2	ND	330	ND	330	NA	NA	NA	NA
PCB-1242	53469-21-8	ND	330	ND	330	NA	NA	NA	NA
PCB-1221	11104-26-2	ND	330	ND	330	NA	NA	NA	NA
PCB-1232	11141-16-5	ND	330	ND	330	NA	NA	NA	NA
PCB-1248	12672-29-6	ND	330	ND	330	NA	NA	NA	NA
PCB-1254	11097-69-1	ND	330	ND	330	NA	NA	NA	NA
PCB-1260	11096-82-5	ND	330	ND	330	NA	NA	NA	NA

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected

B = Background (naturally occurring) concentration

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

Sample Identification		SB-103 (02/08/2012) (05-10)		SB-103 (02/08/2012) (12-13)		SB-103 (02/08/2012) (SB-102)		Field Blank (03/07/2012)		Field Blank (03/07/2012)		Trip Blank (03/07/2012)	
Date Collected		3/6/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012		3/7/2012	
Collection Method		Grab		Grab		Grab		Grab		Grab		Grab	
Date Analyzed		3/15/2012		3/15/2012		3/15/2012		3/15/2012		3/15/2012		3/15/2012	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ppb/g)		CAS #		MDL		Conc		MDL		Conc		MDL	
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs)													
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[a]pyrene	191-24-2	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo[b]pyrene	50-32-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Benzo[e]pyrene	111-61-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroethoxy)methane	111-44-4	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroethoxy)ether	108-60-1	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Chloroisopropyl)ether	117-81-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
bis(2-Ethoxyethyl)phthalate	101-55-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Bromobiphenyl phenyl ether	85-60-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Butyl benzyl phthalate	106-47-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Chloroaniline	91-58-7	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
2-Chloronaphthalene	59-50-7	ND	280	ND	280	ND	280	ND	280	ND	280	ND	280
4-Chloro-3-methylphenol	95-57-8	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
3-Chlorophenol	7006-72-3	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
4-Chlorophenyl phenyl ether	218-01-9	ND	330	ND	330	ND	330	ND	330	ND	330	ND	330
Chrysene	344-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
Dibenz[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
2,3-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

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

Sample Identification		SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)									
Date Collected		FACILITY NAME: Flint West Industrial Land (100-12990-0012)									
Collection Method		Stevenson Street and Glenwood Avenue Flint, Michigan									
		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)	
		3/8/2012		3/8/2012		3/8/2012		3/7/2012		3/8/2012	
		Grab		Grab		Grab		Grab		Grab	
		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012	
		8270C		8270C		8270C		8270C		8270C	
ANALYTICAL METHOD		Conc		MDL		Conc		MDL		Conc	
CONSTITUENT (ug/kg)		Conc		MDL		Conc		MDL		Conc	
CAS#		Conc		MDL		Conc		MDL		Conc	
2,4-Dichlorophenol		120-83-2	ND	330	ND	330	ND	330	ND	330	ND
Diethyl phthalate		84-66-2	ND	330	ND	330	ND	330	ND	330	ND
2,4-Dimethylphenol		105-67-9	ND	330	ND	330	ND	330	ND	330	ND
Dimethyl phthalate		131-11-3	ND	330	ND	330	ND	330	ND	330	ND
4,6-Dinitro-2-methylphenol		534-52-1	ND	830	ND	830	ND	830	ND	830	ND
2,4-Dinitrophenol		51-28-5	ND	830	ND	830	ND	830	ND	830	ND
2,4-Dinitrotoluene		121-14-2	ND	330	ND	330	ND	330	ND	330	ND
2,6-Dinitrotoluene		806-20-2	ND	330	ND	330	ND	330	ND	330	ND
1,2-Diphenylhydrazine		122-86-7	ND	330	ND	330	ND	330	ND	330	ND
di-n-Octyl phthalate		117-84-0	ND	330	ND	330	ND	330	ND	330	ND
Fluoranthene		206-44-0	ND	330	ND	330	ND	330	ND	330	ND
Fluorene		86-73-7	ND	330	ND	330	ND	330	ND	330	ND
Hexachlorobenzene		118-74-1	ND	330	ND	330	ND	330	ND	330	ND
Hexachlorobutadiene		87-68-3	ND	330	ND	330	ND	330	ND	330	ND
Hexachlorocyclopentadiene		77-47-4	ND	330	ND	330	ND	330	ND	330	ND
Hexachloroethane		67-72-1	ND	330	ND	330	ND	330	ND	330	ND
Indenol 1,2,3-cyclopentene		193-39-5	ND	330	ND	330	ND	330	ND	330	ND
Isophorone		78-59-1	ND	330	ND	330	ND	330	ND	330	ND
2-Methylnaphthalene		91-57-6	ND	330	ND	330	ND	330	ND	330	ND
Naphthalene		91-20-3	ND	330	ND	330	ND	330	ND	330	ND
2-Nitroaniline		88-74-4	ND	830	ND	830	ND	830	ND	830	ND
3-Nitroaniline		99-09-2	ND	830	ND	830	ND	830	ND	830	ND
4-Nitroaniline		100-01-6	ND	830	ND	830	ND	830	ND	830	ND
Nitrobenzene		98-95-3	ND	330	ND	330	ND	330	ND	330	ND
2-Nitrophenol		88-75-5	ND	330	ND	330	ND	330	ND	330	ND
4-Nitrophenol		100-02-7	ND	830	ND	830	ND	830	ND	830	ND
N-Nitrosodiphenylamine		86-30-6	ND	330	ND	330	ND	330	ND	330	ND
N-Nitrosodipropylamine		621-64-7	ND	330	ND	330	ND	330	ND	330	ND
Pentachlorophenol		87-86-5	ND	330	ND	330	ND	330	ND	330	ND

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



Applied EcoSystems, Inc.
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Notes:
Results in parts per billion
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ND = Not Detected

Applied EcoSystems, Inc.
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Applied EcoSystems, Inc.													
Environmental Management, Consulting & Field Services													
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 (uug)	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-Dichloropropene	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-Dichloropropene	10061-07-5	ND	70	ND	70	ND	70	ND	50	ND	50	ND	50
1,1,1,2-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	110-57-8	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-Dibromomethane	105-93-4	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	630-20-5	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
Bromofom	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

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

Applied EcoSystems, Inc.									
Environmental Management, Consulting & Field Services									
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) 3/7/2012	Field Blank (03/08/2012) 3/8/2012	Trip Blank (03/07/2012) 3/7/2012			
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									
Analytical Method Number	3/9/2012 8260B/5035	3/9/2012 8260B/5035	3/9/2012 8260B/5035	3/9/2012 8260B/5035	3/9/2012 8260B/5035	3/9/2012 8260B/5035			
CONSTITUENT (uol/Kg)	CAS#	Conc.	MDL	Conc.	MDL	Conc.			
1,2,3-Trichloropropane	66-18-4	ND	100	ND	100	ND			
n-Propylbenzene	103-65-1	ND	100	ND	100	ND			
Bromobenzene	108-86-1	ND	100	ND	100	ND			
1,3,5-Trimethylbenzene	108-87-8	ND	100	ND	100	ND			
n-Butylbenzene	98-08-6	ND	70	ND	50	ND			
1,2,4-Trimethylbenzene	95-63-6	ND	100	ND	100	ND			
sec-Butylbenzene	135-98-8	ND	70	ND	50	ND			
p-Isopropyltoluene	99-87-6	ND	100	ND	100	ND			
1,3-Dichlorobenzene	541-73-1	ND	100	ND	100	ND			
1,4-Dichlorobenzene	106-46-7	ND	100	ND	100	ND			
1,2-Dichlorobenzene	95-50-1	ND	100	ND	100	ND			
1,2,3-Trimethylbenzene	526-73-8	ND	100	ND	100	ND			
n-Butylbenzene	104-51-8	ND	70	ND	50	ND			
Hexachlorocyclopentadiene	67-72-1	ND	400	ND	300	ND			
1,2-Dibromo-3-chloropropane	96-12-8	ND	400	ND	300	ND			
1,2,4-Trichlorobenzene	120-82-1	ND	450	ND	330	ND			
1,2,3-Trichlorobenzene	97-61-6	ND	450	ND	330	ND			
Naphthalene	91-20-3	ND	450	ND	330	ND			
2-Methylnaphthalene	91-67-6	ND	450	ND	330	ND			

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



Applied *Eco*Systems, Inc.
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Soil Analytical Tables
Sampling Event - March 13, 2012



Applied EcoSystems, Inc.
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Applied EcoSystems, Inc.									
Environmental Management, Consulting & Field Services									
SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)									
FACILITY NAME: Flint West Industrial Land (100-12990-2012)									
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#	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc
Chromium VI	18540-28-9	ND	ND	1	ND	1	NA	NA	NA
Cyanide	57-12-5	ND	ND	0.15	ND	0.15	NA	NA	NA
METALS									
Date Analyzed	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 #	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc
Arsenic	7440-38-2	0.10	2.01	0.10	1.87	0.10	NA	NA	NA
Barium	7440-39-3	1.00	31.20	1.00	36.50	1.00	NA	NA	NA
Cadmium	7440-43-9	0.20	ND	0.20	ND	0.20	NA	NA	NA
Chromium	7440-47-3	0.50	5.63	0.50	7.83	0.50	NA	NA	NA
Copper	7440-50-8	0.50	9.96	0.50	14.40	0.50	NA	NA	NA
Lead	7439-92-1	0.30	16.74	0.30	7.56	0.30	NA	NA	NA
Mercury	7439-97-6	0.05	ND	0.05	ND	0.05	NA	NA	NA
Selenium	7782-49-2	0.50	ND	0.50	ND	0.50	NA	NA	NA
Silver	7440-22-4	0.20	ND	0.20	ND	0.20	NA	NA	NA
Zinc	7440-06-6	1.00	26.50	1.00	31.60	1.00	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 (mg/kg)	CAS #	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc
PCB-1016	12674-11-2	ND	ND	330	ND	330	NA	NA	NA
PCB-1242	53469-21-9	ND	ND	330	ND	330	NA	NA	NA
PCB-1221	11104-28-2	ND	ND	330	ND	330	NA	NA	NA
PCB-1232	11141-16-5	ND	ND	330	ND	330	NA	NA	NA
PCB-1243	12072-20-6	ND	ND	330	ND	330	NA	NA	NA
PCB-1254	11097-09-1	ND	ND	330	ND	330	NA	NA	NA
PCB-1260	11096-82-5	ND	ND	330	ND	330	NA	NA	NA

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

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

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

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

Sample Identification		SB-104 (03/13/2012) (07-03)		SB-104 (03/13/2012) (16-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)		SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)	
Date Collected		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		Facility Name:	
Collection Method		Grab		Grab		Grab		Grab		Grab		Stevenson Street and Glenwood Avenue	
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		3/19/2012		3/19/2012		NA	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		NA	
CONSTITUENT (all/kl)		Conc		MDL		Conc		MDL		Conc		MDL	
2,4-Dichlorophenol	120-83-2	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Diethyl phthalate	84-66-2	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
2,4-Dimethylphenol	105-67-9	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Dimethyl phthalate	131-11-3	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
4,6-Dinitro-2-methylphenol	534-52-1	ND	830	ND	830	ND	830	ND	830	NA	NA	NA	MDL
2,4-Dinitrophenol	51-28-5	ND	830	ND	830	ND	830	ND	830	NA	NA	NA	MDL
2,4-Dinitrotoluene	121-14-2	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
2,6-Dinitrotoluene	808-20-2	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
1,2-Diphenylhydrazine	122-66-7	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
di-n-Octyl phthalate	117-84-0	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Fluoranthene	208-44-0	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Fluorene	86-73-7	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Hexachlorobenzene	118-74-1	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Hexachlorobutadiene	87-68-3	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Hexachlorocyclopentadiene	77-47-4	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Hexachloroethane	57-72-1	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Indeno(1,2,3-cd)pyrene	193-39-5	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Isophorone	78-59-1	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
2-Methylnaphthalene	91-57-6	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Naphthalene	91-20-3	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
2-Nitroaniline	88-74-4	ND	830	ND	830	ND	830	ND	830	NA	NA	NA	MDL
3-Nitroaniline	99-09-2	ND	830	ND	830	ND	830	ND	830	NA	NA	NA	MDL
4-Nitroaniline	100-01-6	ND	830	ND	830	ND	830	ND	830	NA	NA	NA	MDL
Nitrobenzene	98-95-3	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
2-Nitrophenol	88-75-5	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
4-Nitrophenol	100-02-7	ND	830	ND	830	ND	830	ND	830	NA	NA	NA	MDL
N-Nitrosodiphenylamine	86-30-6	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
N-Nitrosodipropylamine	921-64-7	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL
Pentachlorophenol	87-86-5	ND	330	ND	330	ND	330	ND	330	NA	NA	NA	MDL

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

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

Sample Identification		SB-104 (03/13/2012) (07-08)		SB-104 (03/13/2012) (15-17)		DUP-2 (03/13/2012) (SB-104)		Field Blank (03/13/2012)		Trip Blank (03/13/2012)		SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)	
Date Collected		3/13/2012		3/13/2012		3/13/2012		3/13/2012		3/13/2012		FACILITY NAME: Flint West Industrial Land (100-12990-0012)	
Collection Method		Grab		Grab		Grab		Grab		Grab		Stevenson Street and Glenwood Avenue	
Date Analyzed		3/19/2012		3/19/2012		3/19/2012		3/19/2012		3/19/2012		Flint, Michigan	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		NA	
CONSTITUENT (ug/kg)		CAS #		MDL		Conc.		MDL		Conc.		MDL	
Phenanthrene	85-01-8	ND	330	ND	330	ND	330	ND	330	ND	330	NA	MDL
Phenol	108-95-2	ND	330	ND	330	ND	330	ND	330	ND	330	NA	MDL
Pyrene	129-00-0	ND	330	ND	330	ND	330	ND	330	ND	330	NA	MDL
1,2,4-Trichlorobenzene	120-82-1	ND	330	ND	330	ND	330	ND	330	ND	330	NA	MDL
2,4,5-Trichlorophenol	95-95-4	ND	330	ND	330	ND	330	ND	330	ND	330	NA	MDL
2,4,6-Trichlorophenol	88-06-2	ND	330	ND	330	ND	330	ND	330	ND	330	NA	MDL
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - 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 #		MDL		Conc.		MDL		Conc.		MDL	
Diethyl ether	60-29-7	ND	300	ND	300	ND	300	ND	300	ND	300	ND	MDL
Acetone	67-64-1	ND	1,000	ND	2,000	ND	2,000	ND	2,000	ND	2,000	ND	1,000
Methyl iodide	74-89-4	ND	100	ND	200	ND	200	ND	200	ND	200	ND	100
Carbon disulfide	75-15-0	ND	300	ND	400	ND	400	ND	400	ND	400	ND	300
tert-Methyl butyl ether (MTBE)	1634-04-4	ND	200	ND	300	ND	300	ND	300	ND	300	ND	200
Acrylonitrile	107-13-1	ND	100	ND	200	ND	200	ND	200	ND	200	ND	100
2,4-Dichloro (MEX)	78-93-3	ND	800	ND	1,200	ND	1,200	ND	1,200	ND	1,200	ND	750
Dichlorodifluoromethane	75-71-8	ND	300	ND	400	ND	400	ND	400	ND	400	ND	300
Chloromethane	74-87-3	ND	300	ND	400	ND	400	ND	400	ND	400	ND	300
Vinyl chloride	75-01-4	ND	80	ND	80	ND	80	ND	80	ND	80	ND	50
Bromomethane	74-83-9	ND	200	ND	300	ND	300	ND	300	ND	300	ND	200
Chloroethane	75-00-3	ND	300	ND	400	ND	400	ND	400	ND	400	ND	300
Tetrachloroethane	75-69-4	ND	100	ND	200	ND	200	ND	200	ND	200	ND	100
1,1-Dichloroethene	75-35-4	ND	80	ND	80	ND	80	ND	80	ND	80	ND	50
Methylene chloride	75-09-2	ND	100	ND	200	ND	200	ND	200	ND	200	ND	100
trans-1,2-Dichloroethene	156-60-5	ND	80	ND	80	ND	80	ND	80	ND	80	ND	50
1,1-Dichloroethane	75-34-3	ND	80	ND	80	ND	80	ND	80	ND	80	ND	50
cis-1,2-Dichloroethane	156-59-2	ND	80	ND	80	ND	80	ND	80	ND	80	ND	50
Tetrahydrofuran	109-99-9	ND	1,000	ND	2,000	ND	2,000	ND	2,000	ND	2,000	ND	1,000

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

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

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)	SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)	
Date Collected		3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012	Facility Name: Flint West Industrial Land (100-12990-0012)	
Collection Method		Grab	Grab	Grab	Grab	Grab	Stevenson Street and Glenwood Avenue	
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 (CAS#)		Conc.	MDL	Conc.	MDL	Conc.	MDL	MDL
VOLATILE ORGANICS COMPOUNDS (VOCs) - continued								
Chloroform	67-66-3	ND	60	ND	90	ND	90	ND
Bromochloromethane	74-97-5	ND	100	ND	200	ND	100	ND
1,1,1-Trichloroethane	71-55-6	ND	60	ND	90	ND	90	ND
4-Methyl-2-pentanone (MIBK)	108-10-1	ND	3,000	ND	4,000	ND	3,000	ND
2-Hexanone	591-78-6	ND	3,000	ND	4,000	ND	3,000	ND
Carbon tetrachloride	56-23-5	ND	60	ND	90	ND	90	ND
Benzene	71-43-2	ND	60	ND	90	ND	90	ND
1,2-Dichloroethane	107-06-2	ND	60	ND	90	ND	90	ND
Trichloroethene	79-01-6	ND	60	ND	90	ND	90	ND
1,2-Dichlorobenzene	78-87-5	ND	60	ND	90	ND	90	ND
Bromochloromethane	75-27-4	ND	100	ND	200	ND	100	ND
Dibromomethane	74-95-3	ND	300	ND	400	ND	300	ND
cis-1,3-Dichloropropene	10061-01-5	ND	60	ND	90	ND	90	ND
Toluene	108-88-3	ND	100	ND	200	ND	100	ND
trans-1,3-Dichloropropene	10061-02-6	ND	60	ND	90	ND	90	ND
1,1,2-Trichloroethane	79-00-5	ND	60	ND	90	ND	90	ND
Tetrachloroethene	127-18-4	ND	60	ND	90	ND	90	ND
trans-1,4-Dichloro-2-butene	110-57-6	ND	80	ND	90	ND	90	ND
Dibromochloromethane	124-46-1	ND	100	ND	200	ND	100	ND
1,2-Dibromomethane	106-93-4	ND	20	ND	30	ND	20	ND
Chlorobenzene	108-90-7	ND	80	ND	90	ND	90	ND
1,1,1,2-Tetrachloroethane	630-20-6	ND	100	ND	200	ND	100	ND
Ethylbenzene	100-41-4	ND	60	ND	90	ND	90	ND
p,m-Xylene	No CAS #	ND	100	ND	200	ND	100	ND
o-Xylene	95-47-6	ND	60	ND	90	ND	90	ND
Styrene	100-42-5	ND	60	ND	90	ND	90	ND
Isopropylbenzene	98-82-8	ND	300	ND	400	ND	300	ND
Bromoform	75-25-2	ND	100	ND	200	ND	100	ND
1,1,2,2-Tetrachloroethane	79-34-5	ND	60	ND	90	ND	90	ND

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

D = Residential Drinking Water Criterion

 Applied EcoSystems, Inc. Environmental Management, Consulting & Field Services									
Sample Identification				SOIL VERIFICATION SAMPLING RESULTS (LABORATORY)					
Data Collected				FACILITY NAME: Flint West Industrial Land (100-12990-0012)					
Collection Method				Stevenson Street and Glenwood Avenue Flint, Michigan					
				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)	
				3/13/2012	3/13/2012	3/13/2012	3/13/2012	3/13/2012	
				Grab	Grab	Grab	Grab	Grab	
VOLATILE ORGANIC COMPOUNDS (VOCs) - continued									
Date Analyzed				3/19/2012	3/19/2012	3/19/2012	3/19/2012	3/19/2012	
Analytical Method Number				8250B/5035	8250B/5035	8250B/5035	8250B/5035	8250B/5035	
CONSTITUENT (ug/Kg)				CAS.#	MDL	Conc	MDL	Conc	MDL
1,2,3-Trichloropropane	96-18-4	ND	100	ND	ND	ND	200	ND	100
n-Propylbenzene	103-65-1	ND	100	ND	ND	ND	200	ND	100
Bromobenzene	108-95-1	ND	100	ND	ND	ND	200	ND	100
1,3,5-Trimethylbenzene	108-67-8	ND	100	ND	ND	ND	200	ND	100
tert-Butylbenzene	98-06-6	ND	60	ND	ND	ND	90	ND	50
1,2,4-Trimethylbenzene	95-63-6	ND	100	ND	ND	ND	200	ND	100
sec-Butylbenzene	135-98-8	ND	60	ND	ND	ND	90	ND	50
p-Isopropyltoluene	95-87-6	ND	100	ND	ND	ND	200	ND	100
1,3-Dichlorobenzene	541-73-1	ND	100	ND	ND	ND	200	ND	100
1,4-Dichlorobenzene	106-46-7	ND	100	ND	ND	ND	200	ND	100
1,2-Dichlorobenzene	95-50-1	ND	100	ND	ND	ND	200	ND	100
1,2,3-Trimethylbenzene	526-73-8	ND	100	ND	ND	ND	200	ND	100
n-Butylbenzene	104-51-8	ND	60	ND	ND	ND	90	ND	50
Hexachloroethane	67-72-1	ND	300	ND	ND	ND	500	ND	300
1,2-Dibromo-3-chloropropane	96-12-8	ND	300	ND	ND	ND	400	ND	300
1,2,4-Trichlorobenzene	120-82-1	ND	360	ND	ND	ND	560	ND	330
1,2,3-Trichlorobenzene	87-61-6	ND	360	ND	ND	ND	560	ND	330
Naphthalene	91-20-3	ND	360	ND	ND	ND	560	ND	330
2-Methylnaphthalene	91-57-6	ND	360	ND	ND	ND	560	ND	330

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected



Groundwater Analytical Tables
Sampling Event - March 26, 2012

Applied EcoSystems, Inc.										WATER VERIFICATION SAMPLING RESULTS (LABORATORY)									
Environmental Management, Consulting & Field Services										FACILITY NAME: Flint West Industrial Land (100-12990-0012) Stevenson Street and Glenwood Avenue									
Sample Identification					MW-100S (03/07/2012)					MW-101S (03/08/2012)					MW-103S (03/13/2012)				
Sample Depth (feet BGS)					5'-15'					9'-19'					5'-15'				
Date Collected					3/26/2012					3/26/2012					3/26/2012				
Collection Method					Grab					Grab					Grab				
INORGANICS																			
Date Analyzed					3/27-4/2/2012					3/27-4/2/2012					3/27-4/2/2012				
Analytical Method Number					Multiple					Multiple					Multiple				
CONSTITUENT (mg/L)					CAS #					Conc.					MDL				
Alkalinity as CaCO3					No CAS #					2.00					352.00				
Ammonia-N					7894-41-7					ND					ND				
Chloride					18687-006					5.00					12.00				
Chromium VI					18540-29-9					ND					ND				
Hardness					No CAS #					290.00					137.00				
Nitrate-N					14797-55-6					ND					0.50				
Nitrite-N					14797-65-0					19.00					ND				
Sulfate					14806-79-8					4.00					18.00				
TOC					No CAS #					468.00					1.20				
Total Dissolved Solids					No CAS #					ND					316.00				
METALS																			
Date Analyzed					3/29/2012					3/29/2012					3/29/2012				
Metal Digestion					3/29/2012					3/29/2012					3/29/2012				
Analytical Method Number					200.8; 245.1					200.8; 245.1					200.8; 245.1				
CONSTITUENT (mg/L)					CAS #					MDL					MDL				
Arsenic					7440-38-2					ND					0.0020				
Barium					7440-39-3					0.048					0.028				
Cadmium					7440-43-9					ND					0.0005				
Chromium					7440-47-3					ND					0.0050				
Copper					7440-50-8					ND					0.0040				
Lead					7439-92-1					ND					0.0030				
Mercury					7439-97-6					ND					0.0002				
Selenium					7782-46-2					0.006 (G-005)					0.0002 (G-005)				
Silver					7440-22-4					ND					0.0005				
Zinc					7440-66-6					ND					0.0050				
POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES																			
Date Analyzed					3/28/2012					3/28/2012					3/29/2012				
Date Extracted					3/27/2012					3/27/2012					3/27/2012				
Analytical Method Number					608					608					608				
CONSTITUENT (ug/L)					CAS #					Conc.					MDL				
PCB-1016					12674-11-2					ND					0.1				
PCB-1242					53455-21-9					ND					ND				
PCB-1221					11104-28-2					ND					0.1				
PCB-1232					11141-16-5					ND					0.1				
PCB-1248					12672-29-6					ND					0.1				
PCB-1254					11097-69-1					ND					0.1				
PCB-1260					11098-82-5					ND					0.1				
PCB- Total					4336-36-3					ND					0.1				

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WATER VERIFICATION SAMPLING RESULTS (LABORATORY)													
FACILITY NAME: Filnt West Industrial Land (100-12990-0012)													
Stevenson Street and Glenwood Avenue													
Filnt, Michigan													
Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/13/2012)		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		3/29/2012	
Analytical Method Number		8270C		8270C		8270C		8270C		8270C		8270C	
CONSTITUENT (ppb)	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	ND	13
Acenaphthylene	208-96-8	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
Anthracene	120-12-7	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
Benzofluoranthene	56-55-3	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
Benzofluoranthene	205-99-2	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
Benzofluoranthene	207-08-9	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
Benzofluoranthene	191-24-2	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
Benzofluoranthene	50-32-8	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
Bis(2-Chloroethoxy)methane	111-91-1	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
Bis(2-Chloroethoxy)ether	111-44-4	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
Bis(2-Chloroisopropyl)ether	108-60-1	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
Bis(2-Ethylhexyl)phthalate	117-81-7	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
4-Bromophenyl phenyl ether	101-55-3	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
Butyl benzyl phthalate	85-90-7	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
4-Chloroaniline	106-47-8	ND	10	ND	10	ND	10	ND	13	ND	10	ND	13
3-Chloronaphthalene	91-58-7	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
4-Chloro-3-methylphenol	59-50-7	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
2-Chlorophenol	95-57-8	ND	10	ND	10	ND	10	ND	13	ND	10	ND	13
4-Chlorophenyl phenyl ether	7005-72-3	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
Chrysene	218-01-9	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
p,m-Cresol	134-Cresol	ND	20	ND	20	ND	20	ND	26	ND	20	ND	26
o-Cresol	95-48-7	ND	10	ND	10	ND	10	ND	13	ND	10	ND	13
Dibenzofluoranthene	53-70-3	ND	2	ND	2	ND	2	ND	13	ND	2	ND	13
Dibenzofuran	132-64-9	ND	4	ND	4	ND	4	ND	13	ND	4	ND	13
6-n-Butyl phthalate	84-74-2	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13
1,2-Dichlorobenzene	95-50-1	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
1,3-Dichlorobenzene	541-73-1	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
1,4-Dichlorobenzene	106-46-7	ND	1	ND	1	ND	1	ND	13	ND	1	ND	13
3,3-Dichlorobenzidine	91-94-1	ND	5	ND	5	ND	5	ND	13	ND	5	ND	13

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

Applied EcoSystems, Inc.
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Sample Identification		MW-1005 (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/13/2012)		MW-103S (03/13/2012)		FACILITY NAME: Flint West Industrial Land (100-12950-0012)		WATER VERIFICATION SAMPLING RESULTS (LABORATORY)	
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		Stevenson Street and Glenwood Avenue		Flint, Michigan	
Date Collected		3/26/2012		3/26/2012		3/26/2012		3/26/2012				DUP (03/26/2012) (MW-103S)	3/26/2012
Collection Method		Grab		Grab		Grab		Grab				5'-15'	3/26/2012
SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued													
Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012				3/29/2012	3/26/2012
Analytical Method Number		8270C		8270C		8270C		8270C				8270C	8270C
CONSTITUENT (ug/L)	CAS #	Conc.	MDL	Conc.	MDL	Conc.	MDL	Conc.	MDL	Conc.	MDL	Conc.	MDL
2,4-Dichlorobenzene	120-83-2	ND	10	ND	10	ND	10	ND	13	ND	10	ND	NA
Diethyl phthalate	84-66-2	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
2,4-Dimethylphenol	105-67-9	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
Dimethyl phthalate	131-11-3	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
4,6-Dinitro-2-methylphenol	934-52-1	ND	20	ND	20	ND	20	ND	20	ND	20	ND	NA
2,4-Dinitrophenol	51-28-5	ND	25	ND	25	ND	25	ND	25	ND	25	ND	NA
2,4-Dinitrotoluene	121-14-2	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
2,6-Dinitrotoluene	806-20-2	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
1,2-Diphenylhydrazine	122-66-7	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
dim-Oxyl phthalate	117-84-0	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
Fluoranthene	206-44-0	ND	1	ND	1	ND	1	ND	13	ND	1	ND	NA
Fluorene	86-73-7	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
Hexachlorobenzene	118-74-1	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
Hexachlorobutadiene	87-68-3	ND	10	ND	10	ND	10	ND	13	ND	10	ND	NA
Hexachlorocyclopentadiene	77-47-4	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
Hexachloroethane	67-72-1	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
Indeno(1,2,3-c)pyrene	193-39-5	ND	2	ND	2	ND	2	ND	13	ND	2	ND	NA
Isophorone	78-59-1	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
2-Methylnaphthalene	91-57-6	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
Naphthalene	91-20-3	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
2-Nitroaniline	88-74-4	ND	25	ND	25	ND	25	ND	13	ND	25	ND	NA
3-Nitroaniline	99-09-2	ND	25	ND	25	ND	25	ND	13	ND	25	ND	NA
4-Nitroaniline	100-01-6	ND	25	ND	25	ND	25	ND	13	ND	25	ND	NA
Nitrobenzene	98-95-3	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
2-Nitrophenol	88-75-6	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
4-Nitrophenol	100-02-7	ND	25	ND	25	ND	25	ND	13	ND	25	ND	NA
N-Nitrosodiphenylamine	86-30-8	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
N-Nitrosod-n-propylamine	621-64-7	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA
Pentachlorophenol	87-86-5	ND	5	ND	5	ND	5	ND	13	ND	5	ND	NA

Notes:

Results in parts per billion

NA = Not Analyzed

ND = Not Detected

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

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		WATER VERIFICATION SAMPLING RESULTS (LABORATORY)	
Sample Depth (feet BGS)		8'-18"		8'-18"		8'-18"		5'-15"		Flint West Industrial Land (100-12990-0012)	
Date Collected		3/26/2012		3/26/2012		3/26/2012		3/26/2012		Stevenson Street and Glenwood Avenue	
Collection Method		Grab		Grab		Grab		Grab		Flint Michigan	
Date Analyzed		3/29/2012		3/29/2012		3/29/2012		3/29/2012		DUP 103/26/2012 (MW-103S)	
Analytical Method Number		8270C		8270C		8270C		8270C		5'-15"	
CONSTITUENT (ppb)		Conc		MDL		Conc		MDL		Conc	
CAS #		Conc		MDL		Conc		MDL		Conc	
85-01-3		2		2		2		2		2	
Phenanthrene		ND		ND		ND		ND		ND	
106-95-2		5		5		5		5		5	
Phenol		ND		ND		ND		ND		ND	
129-00-0		5		5		5		5		5	
Pyrene		ND		ND		ND		ND		ND	
120-82-1		5		5		5		5		5	
1,2,4-Trichlorobenzene		ND		ND		ND		ND		ND	
85-95-4		5		5		5		5		5	
2,4,5-Trichlorophenol		ND		ND		ND		ND		ND	
88-06-2		4		4		4		4		4	
2,4,6-Trichlorophenol		ND		ND		ND		ND		ND	
Date Analyzed		3/31/2012		3/31/2012		3/31/2012		3/31/2012		3/31/2012	
Analytical Method Number		8260B		8260B		8260B		8260B		8260B	
CONSTITUENT (ppb)		Conc		MDL		Conc		MDL		Conc	
CAS #		Conc		MDL		Conc		MDL		Conc	
60-29-7		10		10		10		10		10	
Diethyl ether		ND		ND		ND		ND		ND	
Acetone		50		50		50		50		50	
Methyl iodide		1		1		1		1		1	
74-88-4		ND		ND		ND		ND		ND	
Carbon disulfide		5		5		5		5		5	
75-15-0		ND		ND		ND		ND		ND	
tert-Butyl methyl ether (MTBE)		5		5		5		5		5	
1634-04-4		ND		ND		ND		ND		ND	
Acrylonitrile		2		2		2		2		2	
107-13-1		ND		ND		ND		ND		ND	
2-Butanone (MEK)		25		25		25		25		25	
78-93-3		ND		ND		ND		ND		ND	
Dichlorodifluoromethane		5		5		5		5		5	
75-71-8		ND		ND		ND		ND		ND	
Chloromethane		5		5		5		5		5	
74-87-3		ND		ND		ND		ND		ND	
Vinyl chloride		1		1		1		1		1	
75-01-4		ND		ND		ND		ND		ND	
Bromomethane		5		5		5		5		5	
74-83-9		ND		ND		ND		ND		ND	
Chloroethane		5		5		5		5		5	
75-00-3		ND		ND		ND		ND		ND	
Tetrachloroethane		1		1		1		1		1	
75-09-4		ND		ND		ND		ND		ND	
1,1-Dichloroethane		1		1		1		1		1	
75-35-4		ND		ND		ND		ND		ND	
Methylene chloride		5		5		5		5		5	
75-09-2		ND		ND		ND		ND		ND	
trans-1,2-Dichloroethene		1		1		1		1		1	
156-60-5		ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene		1		1		1		1		1	
75-34-3		ND		ND		ND		ND		ND	
cis-1,2-Dichloroethene		1		1		1		1		1	
155-59-2		3		3		3		3		3	
Tetrahydrofuran		ND		ND		ND		ND		ND	
109-99-9		50		50		50		50		50	

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

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

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																		
Trip Blank (03/23/2012)																		
NA																		
3/26/2012																		
Grab																		
5'-15'																		
MW-103S (03/13/2012)																		
5'-15'																		
3/26/2012																		
Grab																		
5'-15'																		
MW-102S (03/08/2012)																		
9'-15'																		
3/26/2012																		
Grab																		
9'-15'																		
MW-101S (03/08/2012)																		
9'-19'																		
3/26/2012																		
Grab																		
9'-19'																		
MW-100S (03/07/2012)																		
5'-15'																		
3/26/2012																		
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Notes:
Results in parts per billion
NA = Not Analyzed
ND = Not Detected

D = Drinking Water Criterion

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

Applied EcoSystems, Inc.				WATER VERIFICATION SAMPLING RESULTS (LABORATORY)											
Environmental Management, Consulting & Field Services				FACILITY NAME: Flint West Industrial Land (100-12990-0012)											
				Stevenson Street and Glenwood Avenue											
				Flint, Michigan											
				MW-100S (03/07/2012)				MW-102S (03/08/2012)				MW-103S (03/13/2012)			
				5'-15'				9'-19'				5'-15'			
				3/26/2012				3/26/2012				3/26/2012			
				Grab				Grab				Grab			
				3/31/2012				3/31/2012				3/31/2012			
				8260B				8260B				8260B			
				VOLATILE ORGANICS COMPOUNDS (VOCs) - continued											
				Conc				Conc				Conc			
CONSTITUENT (ug/L)				MDL				MDL				MDL			
				CAS#				CAS#				CAS#			
1,2,3-Trichloropropane				96-18-4				ND				ND			
n-Propylbenzene				103-65-1				ND				ND			
Bromobenzene				106-96-1				ND				ND			
1,3,5-Trimethylbenzene				106-87-8				ND				ND			
tert-Butylbenzene				58-06-6				ND				ND			
1,2,4-Trimethylbenzene				95-53-6				ND				ND			
sec-Butylbenzene				135-98-3				ND				ND			
p-Isopropyltoluene				59-87-6				ND				ND			
1,3-Dichlorobenzene				541-73-1				ND				ND			
1,4-Dichlorobenzene				105-46-7				ND				ND			
1,2-Dichlorobenzene				95-50-1				ND				ND			
n-Butylbenzene				526-73-8				ND				ND			
Hexachloroethane				104-51-8				ND				ND			
1,2-Dibromo-3-chloropropane				67-72-1				ND				ND			
1,2,4-Trichlorobenzene				96-12-8				ND				ND			
1,2,3-Trichlorobenzene				120-82-1				ND				ND			
Naphthalene				87-61-6				ND				ND			
2-Methylnaphthalene				91-20-3				ND				ND			
1-Methylnaphthalene				91-57-6				ND				ND			

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 Greenwood Avenue
Flint, Michigan

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

Sample Depth (feet BGS): NA

Date Collected: 3/25/2012

Collection Method: Grab

Date Analyzed: NA

Analytical Method Number: NA

CONSTITUENT (mg/L)

Alkalinity as CaCO₃

Ammonia-N

Chloride

Chromium VI

Hardness

Nitrate-N

Nitrite-N

Sulfate

TOC

Total Dissolved Solids

Conc. MDL

Conc. MDL

Conc. MDL

Conc. MDL

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INORGANICS

METALS

POLYCHLORINATED BIPHENYLS (PCBs)/PESTICIDES

Date Analyzed: NA

Date Extracted: NA

Analytical Method Number: NA

CONSTITUENT (ppb)

PCB-1016

PCB-1242

PCB-1221

PCB-1232

PCB-1248

PCB-1254

PCB-1260

PCB Total

Conc. MDL

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Conc. MDL

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



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

Sample Identification		Field Blank (03/26/2012)		SEMI-VOLATILE ORGANICS COMPOUNDS (SVOCs) - continued											
Sample Depth (feet BGS)		NA													
Date Collected		3/26/2012													
Collection Method		Grab													
Date Analyzed				NA											
Analytical Method Number				NA											
CONSTITUENT (ug/L)				CAS #	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-Dimethyl-2-methylphenol				534-52-1	NA	NA									
2,4-Dinitrophenol				51-28-5	NA	NA									
2,4-Dinitrophenol				121-14-2	NA	NA									
2,6-Dinitrophenol				605-20-2	NA	NA									
1,3-Dinitrophenylhydrazine				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				88-72-4	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				88-30-6	NA	NA									
N-Nitrosodipropylamine				621-64-7	NA	NA									
Permethrin				87-86-5	NA	NA									

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

Applied EcoSystems, Inc.			WATER VERIFICATION SAMPLING RESULTS (LABORATORY)									
Environmental Management, Consulting & Field Services			FACILITY NAME: Flint West Industrial Land (100-12990-0012)									
			Stevenson Street and Glenwood Avenue									
			Flint, Michigan									
Sample Identification												
Sample Depth (feet BGS)	Field Blank (03/26/2012)	NA										
Date Collected	3/26/2012											
Collection Method			Grab									
Data Analyzed			NA									
Analytical Method Number			NA									
CONSTITUENT (ug/L)			CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc
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							
Data Analyzed			3/31/2012									
Analytical Method Number			82908									
CONSTITUENT (ug/L)			CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc
Ethyl ether			60-29-7	ND	10							
Acetone			67-64-1	ND	150							
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



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

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		10/31/2012											
Analytical Method Number		6260B											
CONSTITUENT (ug/L)		CAS #	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	Conc	MDL	
Chloroform		67-68-3	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									
Dibromodichloromethane		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

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

Sample Identification		Field Blank (03/25/2012)		Flint, Michigan									
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		826GB											
CONSTITUENT (mg/L)		CAS#	Conc.	MDL	Conc.	MDL	Conc.	MDL	Conc.	MDL	Conc.	MDL	
1,2,3-Trichloropropane		98-18-4	ND	1									
n-Propylbenzene		103-65-1	ND	1									
Bromobenzene		108-86-1	ND	1									
1,3,5-Trimethylbenzene		108-67-6	ND	1									
tert-Butylbenzene		98-06-6	ND	1									
1,2,4-Trimethylbenzene		95-63-6	ND	1									
sec-Butylbenzene		135-98-6	ND	1									
p-Isopropyltoluene		99-87-6	ND	5									
1,3-Dichlorobenzene		54-173-1	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



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

Groundwater Analytical Tables
Sampling Event - April

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

Sample Identification		MW-100S (03/07/2012)		MW-101S (03/08/2012)		MW-102S (03/08/2012)		MW-103S (03/13/2012)		Flint, Michigan	
Sample Depth (feet BGS)		5'-15'		9'-19'		9'-19'		5'-15'		DUP (03/26/2012) (MW-103S)	
Date Collected		4/11/2012		4/11/2012		4/11/2012		4/11/2012			
Collection Method		Grab		Grab		Grab		Grab		Grab	
INC-ORGANICS											
Date Analyzed		4/20/2012		4/20/2012		4/20/2012		4/20/2012			
Analytical Method Number		335.4		335.4		335.4		335.4			
CONSTITUENT (mg/L)		CAS#		Conc		MDL		Conc		MDL	
Cyanide		57-12-5		ND		0.005		ND		0.005	

Notes:
Results in parts per billion

NA = Not Analyzed
ND = Not Detected

SOIL ANALYTICAL DATA - METALS
RACER - Flint West #12990

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

Sample ID				SB-110	SB-110	SB-110	SB-111	SB-111	SB-111	SB-112	SB-112	SB-112	SB-113	SB-113	SB-113	DUP 1	DUP 2	DUP 3
Date Collected				12/5/12	12/5/12	12/5/12	12/5/12	12/5/12	12/5/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/4/12	12/4/12	12/5/12
Depth Below Grade (ft)				12-13	15-16	24-25	11-12	13-14	24.5-25.5	3.5-4.5	8.5-9.5	24-25	4-6	10-11	23-24			
ANALYTE (ug/kg)	DW	GSI	B	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	5,800	5,800	5,800	1,650	1,380	1,680	2130	1,330	2,330	1,240	1,090	1,030	520	580	1,820	1,470	830	1,070
Barium	1.3 E+6	7.8 E+5 G	75,000	30,700	42,400	20,400	47,200	27,100	6,230	22,400	8,320	23,600	21,000	5,960	5,777	25,000	7,320	35,100
Cadmium	6,000	5,400 G	1,200	130	180	200	150	220		120		120				180		140
Chromium	1.0 E+9	4.6 E+9 G	18,000	2,340	3,490	4,320	5,160	3,910	1,120	3,640	730	14,500	1,940	550	970	2,650	1,820	3,630
Chromium VI	30,000	3,300	NA															
Copper	5.8 E+6	1.2 E+5	32,000	3,570	7,200	12,600	6,120	11,100	4,880	5,920	1,700	8,460	6,960	730	3,740	8,880	1,400	6,470
Lead	7.0 E+5	5.0 E+6 G	21,000	4,780	7,110	8,380	6,790	7,410	3,520	3,880	1,940	3,850	5,820	1,080	2,310	6,550	2,050	6,220
Mercury	1,700	50	130	10	20	20	20	20	10	40	10	20	10	2	5	20	10	20
Selenium	4,000	400	410															
Silver	4,500	100	1,000															
Zinc	2.4 E+6	2.6 E+5G	47,000	10,300	17,600	25,800	15,900	2,360	11,000	8,150	3,960	10,400	8,910	2,030	9,360	18,600	3,070	12,900

NOTES:

	Exceeds one or more criteria
GSI	Groundwater to Surface Water Interface Criteria - calculated based on 257ppm total hardness in the Flint River
	Blank cells indicate no detectable concentrations
B	MDEQ Default Type A Background
DW	Drinking Water Criteria

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

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

Sample ID	SB-110	SB-111	SB-111	SB-111	SB-112	SB-112	SB-112	SB-113	SB-113	SB-113	DUP 1	DUP 2	DUP 3	TB	FB	TB	FB	TB	FB
Date Collected	12/5/12	12/5/12	12/5/12	12/5/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/6/12	12/4/12	12/4/12	12/5/12	12/4/12	12/4/12	12/5/12	12/5/12	12/6/12	12/6/12
Depth (ft)	24-25	11-12	13-14	24.5-25.5	3.5-4.5	8.5-9.5	24-25	4-6	10-11	23-24									
ANALYTE (ug/kg)	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000																111	
2 Butanone (MEK)	2.6 E+5	44,000																55	
Chloromethane	5,200	NC																102	
Vinyl Chloride	40	260				80													
Tetrahydrofuran	1,900	2.2 E+5																250	
Toluene	16,000	5,400				400													
1,3,5-Trimethylbenzene	1,800	1,100				300													
1,2,3-Trimethylbenzene	NC	NC				200													
Naphthalene	35,000	730				840	470												
2-Methylnaphthalene	57,000	4,200				3,120	1,100	560											
n-Butylbenzene	1,600	NC				250													

NOTES:

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

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

ANALYTE (ug/kg)	Sample ID		SB-114	SB-114	SB-114	SB-115	SB-115	SB-115	SB-116	SB-116	SB-116	SB-117	SB-117	SB-117	SB-118	SB-118	SB-118
	Date Collected		12/10/12	12/10/12	12/10/12	12/10/12	12/10/12	12/10/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12	12/11/12
	Depth Below Grade (ft)		4-5	7-8	20-21	6-7	13-14	17-18	4-5	7-8	12-13	6-7	9-10	18-19	3.5-4.5	7-8	16-17
	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000	130	135	152	139	91	121	191	119	161	138	220	119	102	72	
2 Butanone (MEK)	2.6 E+5	44,000	79	123	126	122	89	98	135	86	134	113	113	81	67	59	78
Chloromethane	5,200	NC	144	155	179	174	133	128	176	127	167	145	168	158	127	111	155
Vinyl Chloride	40	260									280						250
1,1-Dichloroethene	140	2,600															110
Methylene Chloride	100	30,000	13	15	16	18	13.3	13	16	10.8	16	14	14	15	11	11.5	12
trans-1,2-Dichloroethene	2,000	30,000									27						200
1,1-Dichloroethane	18,000	15,000									35						80
cis-1,2-Dichloroethene	1,400	12,000			170						2,610			580			11,960
Tetrahydrofuran	1,900	2.2 E+5	350	400	470	440	350	330	460	310	430	390	430	360	330	270	360
Benzene	100	4,000															26
Trichloroethene	100	4,000			1,220						27			5,980			29
Naphthalene	35,000	730	540	60	22									31			
2-Methylnaphthalene	57,000	4,200	234	62	30	24	18							33			

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

NOTES:

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

GROUNDWATER ANALYTICAL DATA
RACER - Flint West #12990

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

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

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

NOTES:

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

1.00	Compound also found in associated method blank, suggesting a laboratory artifact.
NC	Insufficient data to develop criterion/no criterion

GROUNDWATER ANALYTICAL DATA
RACER - Flint West #12990

Sample ID Date Collected			MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106SR	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2
ANALYTE (mg/L)			4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/30/13	4/25/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13
DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Arsenic	0.01	0.01				0.041		0.003	0.002	0.003		0.004	0.007	0.002	0.003	0.041
Barium	2	1.2 G	0.049	0.034	0.0600	0.246	0.036	0.134	0.113	0.076	0.049	0.086	0.134	0.025	0.026	0.232
Cadmium	0.005	0.004 G	0.0021													
Chromium	0.1	0.16 G			0.0230		0.014	0.022								
Lead	0.004	0.028 G														
Mercury	0.002	0.0001														
Selenium	0.05	0.005						0.007			0.006					
Silver	0.034	0.0002														

Sample ID Date Collected			MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106SR	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2
ANALYTE (ug/L)			4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/30/13	4/25/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13
DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
PnAs	varies	varies														

Sample ID Date Collected			MW-100S	MW-101S	MW-102S	MW-103S	MW-104S	MW-105S	MW-106SR	MW-107S	MW-108S	MW-109S	MW-110S	MW-111S	Dup 1	Dup 2	Trip Blank	Field Blank	Trip Blank	Field Blank
ANALYTE (ug/L)			4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/25/13	4/30/13	4/25/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13	4/26/13	4/25/13	4/25/13	4/26/13	4/26/13
DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	730	1,700														4.4				
Carbon disulfide	800	NC																		
2 Butanone (MEK)	13,000	2,200																		
Chloromethane	260	NC																		
Vinyl Chloride	2.0	13				0.65				0.44		17				0.66				
Chloroethane	430	1,100										0.49								
trichlorofluoromethane	2,600	NA		0.37																
1,1-Dichloroethene	7.0	130										4								
Methylene Chloride	5.0	1,500																		
trans-1,2-Dichloroethene	100	1,500										1								
1,1-Dichloroethane	880	740								1		3								
cis-1,2-Dichloroethene	70	620	0.95							1	0.42	70								
Tetrahydrofuran	95	11,000																		
Chloroform	80	350					4		0.051		2	0.260								
1,1,1-Trichloroethane	200	89										0.590								
Carbontetrachloride	5.0	45									2									
Benzene	5.0	200																		
bromodichloromethane	80.0	NC					0.32													
Trichloroethene	5.0	200	5	1	2					9		178								
Toluene	790	270																		
Tetrachloroethene	5.0	60						1				0.17								
Chlorobenzene	100	25																		
Total Xylenes	280	41																		
1,2,4-Trimethylbenzene	63	17																		
1,2,3-Trimethylbenzene	NC	NC																		
Naphthalene	520	11																		
2-Methylnaphthalene	260	19																		

NOTES:

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

1.00	Compound also found in associated method blank, suggesting a laboratory artifact.
NC	Insufficient data to develop criterion/no criterion

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

ANALYTE (ug/kg)	Sample ID		SB-119	SB-119	SB-120	SB-121	SB-121	SB-122	SB-123	DUP1	FB	TB
	Date Collected		4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13	4/30/13
	Depth Below Grade (ft)		10-11	17-18	8-9'	15-16	23-24	15-16	5-6			
	DW	GSI	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc	Conc
Acetone	15,000	34,000										
2 Butanone (MEK)	2.6 E+5	44,000										
Chloromethane	5,200	NC										
Vinyl Chloride	40	260					110					
Tetrahydrofuran	1,900	2.2 E+5										
Toluene	16,000	5,400										
1,3,5-Trimethylbenzene	1,800	1,100							29			
1,2,4-Trimethylbenzene	2,100	570	21						37	22		
1,2,3-Trimethylbenzene	NC	NC	12			5.5			42	12		
Naphthalene	35,000	730	64	22					210	55		
2-Methylnaphthalene	57,000	4,200	49	19		25			345	39		
n-Butylbenzene	1,600	NC										
methylene Chloride	100	30,000	13	15	18	14	19	100	18	12	13.5	11.5
1,1 dichloroethene	140	2,600					18					
trans-1,2dichloroethene	2,000	30,000					66					
1,1 dichloroethane	18,000	15,000					57					
cis-1,2dichloroethene	1,400	12,000					2,970	1,600				
benzne	100	4,000					44					
trichloroethene	100	4,000					400	14,400	41			
tetrachloroethylene	100	1,200							18			
o-xylene	5,600*	820*							39			
isopropylbenzene	91,000	3,200							65			
p-isopropyltoluene	NC	NC							93			

NOTES:

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

ATTACHMENT #5: SOIL AND GROUNDWATER ANALYTICAL DATA



Analytical Laboratory Report

Revised Report

Report ID: S56230.01(02)

Generated on 05/21/2013

Replaces report S56230.01(01) generated on 05/10/2013

Report to

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

Phone: 810-715-2525 FAX: 810-715-2526

Email: msmith@appliedecosystems.com

Report produced by

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

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

Contacts for report questions:

Tabitha Faust (tfaust@meritlabs.com)

Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S56230.01-S56230.17

Project: 12990-11-01/ Former Building 9

Collected Date: 04/25/2013 - 04/26/2013

Submitted Date/Time: 04/29/2013 08:00

Sampled by: Josh Adams

P.O. #: 11-4317-102

MDL's added

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (17 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56230.01	MW-100S	Groundwater	04/25/2013 14:55
S56230.02	MW-101S	Groundwater	04/25/2013 14:29
S56230.03	MW-102S	Groundwater	04/25/2013 13:41
S56230.04	MW-103S	Groundwater	04/25/2013 14:25
S56230.05	MW-104S	Groundwater	04/25/2013 12:10
S56230.06	MW-105S	Groundwater	04/25/2013 12:54
S56230.07	MW-107S	Groundwater	04/25/2013 16:03
S56230.08	MW-108S	Groundwater	04/26/2013 11:40
S56230.09	MW-109S	Groundwater	04/26/2013 12:25
S56230.10	MW-110S	Groundwater	04/26/2013 13:20
S56230.11	MW-111S	Groundwater	04/26/2013 14:10
S56230.12	DUP-1	Groundwater	04/26/2013 00:01
S56230.13	DUP-2	Groundwater	04/26/2013 00:01
S56230.14	Trip Blank (4/25)	Groundwater	04/25/2013 00:01
S56230.15	Field Blank (4/25)	Groundwater	04/25/2013 00:01
S56230.16	Trip Blank (4/26)	Groundwater	04/26/2013 00:01
S56230.17	Field Blank (4/26)	Groundwater	04/26/2013 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.01

Sample Tag: MW-100S

Collected Date/Time: 04/25/2013 14:55

Matrix: Groundwater

COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:17	PER	0.000052	
Barium	0.049	mg/L	0.005	E200.8	05/10/13 14:17	PER	0.00022	
Cadmium	0.0021	mg/L	0.0005	E200.8	05/10/13 14:17	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 14:17	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:17	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:06	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:17	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:17	PER	0.000018	

Organics - Semi-Volatiles**Polynuclear Aromatic Hydrocarbon**

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 14:31	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:31	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 14:31	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 14:31	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:31	PL	0.31	

Organics - Volatiles**Volatile Organics - DEQ List**

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 15:26	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 15:26	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.01 (continued)

Sample Tag: MW-100S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 15:26	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 15:26	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.15	
cis-1,2-Dichloroethene	0.95	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.21	J
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 15:26	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 15:26	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 15:26	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.17	
Trichloroethene	5	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 15:26	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.15	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.01 (continued)

Sample Tag: MW-100S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:26	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 15:26	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.02
Sample Tag: MW-101S
Collected Date/Time: 04/25/2013 14:29
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Extraction / Prep.								
Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
PNA Extraction (Replicate 01)	Completed			3510C	05/02/13 20:59	EMR		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:18	PER	0.000052	
Barium	0.034	mg/L	0.005	E200.8	05/10/13 14:18	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:18	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 14:18	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:18	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:48	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:18	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:18	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.28	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.28	S
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.27	S
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.30	S
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.29	S
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.27	S
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.30	S
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 14:53	PL	0.31	S
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 14:53	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 14:53	PL	0.27	S
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 14:53	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.29	S
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 14:53	PL	0.30	

Polynuclear Aromatic Hydrocarbon (Replicate 01)

Acenaphthene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.28	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.02 (continued)

Sample Tag: MW-101S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (Replicate 01) (continued)								
Anthracene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.27	
Chrysene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/03/13 20:19	PL	0.31	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:19	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/03/13 20:19	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/03/13 20:19	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:19	PL	0.30	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 15:46	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 15:46	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 15:46	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 15:46	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.21	
Trichlorofluoromethane	0.37	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.28	J
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 15:46	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 15:46	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 15:46	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.17	
Trichloroethene	1	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.18	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.02 (continued)

Sample Tag: MW-101S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 15:46	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 15:46	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 15:46	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.03
Sample Tag: MW-102S
Collected Date/Time: 04/25/2013 13:41
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:20	PER	0.000052	
Barium	0.060	mg/L	0.005	E200.8	05/10/13 14:20	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:20	PER	0.000067	
Chromium	0.023	mg/L	0.005	E200.8	05/10/13 14:20	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:20	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:50	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:20	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:20	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 15:16	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:16	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 15:16	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 15:16	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:16	PL	0.31	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 16:07	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 16:07	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.03 (continued)

Sample Tag: MW-102S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 16:07	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 16:07	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 16:07	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 16:07	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 16:07	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.17	
Trichloroethene	2	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 16:07	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.18	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.03 (continued)

Sample Tag: MW-102S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:07	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:07	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.04

Sample Tag: MW-103S

Collected Date/Time: 04/25/2013 14:25

Matrix: Groundwater

COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	0.041	mg/L	0.002	E200.8	05/10/13 14:22	PER	0.000052	
Barium	0.246	mg/L	0.005	E200.8	05/10/13 14:22	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:22	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 14:22	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:22	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:52	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:22	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:22	PER	0.000018	

Organics - Semi-Volatiles**Polynuclear Aromatic Hydrocarbon**

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.31	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 15:38	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 15:38	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 15:38	PL	0.28	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 15:38	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.30	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.29	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 15:38	PL	0.31	

Organics - Volatiles**Volatile Organics - DEQ List**

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 16:27	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 16:27	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.04 (continued)

Sample Tag: MW-103S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 16:27	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 16:27	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.20	
Vinyl chloride	0.66	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.24	J
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 16:27	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 16:27	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 16:27	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 16:27	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.15	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.04 (continued)

Sample Tag: MW-103S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:27	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:27	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.05
Sample Tag: MW-104S
Collected Date/Time: 04/25/2013 12:10
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:26	PER	0.000052	
Barium	0.036	mg/L	0.005	E200.8	05/10/13 14:26	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:26	PER	0.000067	
Chromium	0.014	mg/L	0.005	E200.8	05/10/13 14:26	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:26	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:54	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 14:26	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:26	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.31	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 16:01	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:01	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 16:01	PL	0.28	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 16:01	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.30	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.29	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:01	PL	0.31	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 16:47	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 16:47	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.05 (continued)

Sample Tag: MW-104S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 16:47	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 16:47	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 16:47	JGH	1.2	
Chloroform	4	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 16:47	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 16:47	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.18	
Bromodichloromethane	0.32	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.19	J
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 16:47	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.15	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.05 (continued)

Sample Tag: MW-104S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 16:47	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 16:47	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.06
Sample Tag: MW-105S
Collected Date/Time: 04/25/2013 12:54
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	0.003	mg/L	0.002	E200.8	05/10/13 15:51	PER	0.000052	
Barium	0.134	mg/L	0.005	E200.8	05/10/13 15:51	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:51	PER	0.000067	
Chromium	0.022	mg/L	0.005	E200.8	05/10/13 15:51	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:51	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:56	CCM	0.000030	
Selenium	0.007	mg/L	0.005	E200.8	05/10/13 15:51	PER	0.00027	
Silver	0.0006	mg/L	0.0005	E200.8	05/10/13 15:51	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.33	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.31	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.31	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.31	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 16:23	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:23	PL	0.33	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 16:23	PL	0.28	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 16:23	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.30	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.29	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:23	PL	0.31	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 17:08	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 17:08	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.06 (continued)

Sample Tag: MW-105S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 17:08	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 17:08	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 17:08	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 17:08	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 17:08	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.34	
Tetrachloroethene	1	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 17:08	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.18	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.06 (continued)

Sample Tag: MW-105S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:08	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:08	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.07
Sample Tag: MW-107S
Collected Date/Time: 04/25/2013 16:03
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	0.003	mg/L	0.002	E200.8	05/10/13 15:53	PER	0.000052	
Barium	0.076	mg/L	0.005	E200.8	05/10/13 15:53	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:53	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 15:53	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:53	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 14:58	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 15:53	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 15:53	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.28	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.27	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 16:46	PL	0.31	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 16:46	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 16:46	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 16:46	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 16:46	PL	0.30	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 17:28	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 17:28	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.07 (continued)

Sample Tag: MW-107S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 17:28	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 17:28	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.20	
Vinyl chloride	0.44	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.24	J
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.14	
1,1-Dichloroethane	1	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.15	
cis-1,2-Dichloroethene	1	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 17:28	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 17:28	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 17:28	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.17	
Trichloroethene	9	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 17:28	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.15	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.07 (continued)

Sample Tag: MW-107S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:28	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:28	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.08
Sample Tag: MW-108S
Collected Date/Time: 04/26/2013 11:40
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	Not detected	mg/L	0.002	E200.8	05/10/13 14:27	PER	0.000052	
Barium	0.049	mg/L	0.005	E200.8	05/10/13 14:27	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 14:27	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 14:27	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 14:27	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:00	CCM	0.000030	
Selenium	0.006	mg/L	0.005	E200.8	05/10/13 14:27	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 14:27	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 17:08	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:08	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 17:08	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 17:08	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:08	PL	0.31	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 17:48	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 17:48	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.08 (continued)

Sample Tag: MW-108S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 17:48	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 17:48	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.15	
cis-1,2-Dichloroethene	0.42	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.21	J
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 17:48	JGH	1.2	
Chloroform	2	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 17:48	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 17:48	JGH	0.19	
Carbon tetrachloride	2	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 17:48	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.15	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.08 (continued)

Sample Tag: MW-108S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 17:48	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 17:48	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.09
Sample Tag: MW-109S
Collected Date/Time: 04/26/2013 12:25
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	0.004	mg/L	0.002	E200.8	05/10/13 15:54	PER	0.000052	
Barium	0.086	mg/L	0.005	E200.8	05/10/13 15:54	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:54	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 15:54	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:54	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:02	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 15:54	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 15:54	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.28	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.27	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 17:31	PL	0.31	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:31	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 17:31	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 17:31	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:31	PL	0.30	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 22:31	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 22:31	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.09 (continued)

Sample Tag: MW-109S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 22:31	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 22:31	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.20	
Vinyl chloride	17	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.18	
Chloroethane	0.49	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.21	J
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.28	
1,1-Dichloroethene	4	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.16	
trans-1,2-Dichloroethene	1	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.14	
1,1-Dichloroethane	3	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.15	
cis-1,2-Dichloroethene	70	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 22:31	JGH	1.2	
Chloroform	0.26	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.15	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.36	
1,1,1-Trichloroethane	0.59	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.27	J
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 22:31	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 22:31	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.17	
Trichloroethene	178	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.34	
Tetrachloroethene	0.17	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.13	J
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 22:31	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.15	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.09 (continued)

Sample Tag: MW-109S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 22:31	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 22:31	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.10
Sample Tag: MW-110S
Collected Date/Time: 04/26/2013 13:20
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	0.007	mg/L	0.002	E200.8	05/10/13 15:56	PER	0.000052	
Barium	0.134	mg/L	0.005	E200.8	05/10/13 15:56	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:56	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 15:56	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:56	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:22	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 15:56	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 15:56	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 17:53	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 17:53	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 17:53	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 17:53	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 17:53	PL	0.31	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 18:09	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 18:09	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.10 (continued)

Sample Tag: MW-110S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 18:09	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 18:09	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 18:09	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 18:09	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 18:09	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 18:09	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.18	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.10 (continued)

Sample Tag: MW-110S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:09	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:09	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.11
Sample Tag: MW-111S
Collected Date/Time: 04/26/2013 14:10
Matrix: Groundwater
COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		
PNA Extraction (Replicate 01)	Completed			3510C	05/02/13 20:59	EMR		

Metals

Arsenic	0.002	mg/L	0.002	E200.8	05/10/13 15:58	PER	0.000052	
Barium	0.025	mg/L	0.005	E200.8	05/10/13 15:58	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 15:58	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 15:58	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 15:58	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:04	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 15:58	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 15:58	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.28	S
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.27	S
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.30	S
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.30	S
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.28	S
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.30	S
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 18:16	PL	0.32	S
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:16	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 18:16	PL	0.27	S
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 18:16	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.29	S
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:16	PL	0.31	

Polynuclear Aromatic Hydrocarbon (Replicate 01)

Acenaphthene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.28	

S-Surrogate recovery outside of control limits



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.11 (continued)

Sample Tag: MW-111S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Semi-Volatiles (continued)								
Polynuclear Aromatic Hydrocarbon (Replicate 01) (continued)								
Anthracene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.29	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.27	
Chrysene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/03/13 20:41	PL	0.31	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/03/13 20:41	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.30	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/03/13 20:41	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/03/13 20:41	PL	0.29	
Pyrene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/03/13 20:41	PL	0.30	
Organics - Volatiles								
Volatile Organics - DEQ List								
Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 18:29	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 18:29	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 18:29	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 18:29	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 18:29	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 18:29	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 18:29	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.19	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.11 (continued)

Sample Tag: MW-111S

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 18:29	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:29	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:29	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.12

Sample Tag: DUP-1

Collected Date/Time: 04/26/2013 00:01

Matrix: Groundwater

COC Reference: 81592

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	0.003	mg/L	0.002	E200.8	05/10/13 16:00	PER	0.000052	
Barium	0.026	mg/L	0.005	E200.8	05/10/13 16:00	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 16:00	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 16:00	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 16:00	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:16	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 16:00	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 16:00	PER	0.000018	

Organics - Semi-Volatiles**Polynuclear Aromatic Hydrocarbon**

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 18:38	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 18:38	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 18:38	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 18:38	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 18:38	PL	0.31	

Organics - Volatiles**Volatile Organics - DEQ List**

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 20:50	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 20:50	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.12 (continued)

Sample Tag: DUP-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 20:50	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 20:50	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 20:50	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 20:50	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 20:50	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 20:50	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.18	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.12 (continued)

Sample Tag: DUP-1

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:50	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:50	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.13
Sample Tag: DUP-2
Collected Date/Time: 04/26/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR
2	1L Amber	None	Yes	2.7	IR
1	125ml Plastic	HNO3	Yes	2.7	IR

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

Mercury Digestion	Completed			E245.1	04/29/13 11:00	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	04/30/13 22:38	EMR		

Metals

Arsenic	0.041	mg/L	0.002	E200.8	05/10/13 16:01	PER	0.000052	
Barium	0.232	mg/L	0.005	E200.8	05/10/13 16:01	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 16:01	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 16:01	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 16:01	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	04/29/13 15:18	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 16:01	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 16:01	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/01/13 19:01	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/01/13 19:01	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/01/13 19:01	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/01/13 19:01	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/01/13 19:01	PL	0.31	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 21:10	JGH	0.27	
Acetone	4.4	ug/L	50	SW8260B	05/06/13 21:10	JGH	4.0	J

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.13 (continued)

Sample Tag: DUP-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 21:10	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 21:10	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.20	
Vinyl chloride	0.66	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.24	J
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 21:10	JGH	1.2	
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 21:10	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 21:10	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 21:10	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.12	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.13 (continued)

Sample Tag: DUP-2

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:10	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:10	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.14
Sample Tag: Trip Blank (4/25)
Collected Date/Time: 04/25/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR

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

pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 18:49	JGH	0.27
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 18:49	JGH	4.0
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.24
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.13
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.25
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 18:49	JGH	0.38
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 18:49	JGH	3.3
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.57
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.20
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.24
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.18
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.21
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.28
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.27
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.16
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.14
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.15
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.21
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 18:49	JGH	1.2
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.15
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.36
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.27
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 18:49	JGH	0.35
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 18:49	JGH	0.19
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.19
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.11
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.17
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.29
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.18
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.19
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.45
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.17
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.17
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.20
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.34
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.13
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.26
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.20
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.12



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.14 (continued)

Sample Tag: Trip Blank (4/25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 18:49	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 18:49	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 18:49	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.15
Sample Tag: Field Blank (4/25)
Collected Date/Time: 04/25/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR

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

pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 19:10	JGH	0.27
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 19:10	JGH	4.0
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.24
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.13
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.25
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 19:10	JGH	0.38
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 19:10	JGH	3.3
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.57
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.20
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.24
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.18
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.21
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.28
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.27
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.16
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.14
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.15
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.21
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 19:10	JGH	1.2
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.15
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.36
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.27
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 19:10	JGH	0.35
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 19:10	JGH	0.19
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.19
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.11
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.17
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.29
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.18
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.19
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.45
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.17
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.17
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.20
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.34
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.13
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.26
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.20
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.12



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.15 (continued)

Sample Tag: Field Blank (4/25)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 19:10	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:10	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:10	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.16
Sample Tag: Trip Blank (4/26)
Collected Date/Time: 04/26/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR

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

pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 19:30	JGH	0.27
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 19:30	JGH	4.0
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.24
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.13
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.25
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 19:30	JGH	0.38
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 19:30	JGH	3.3
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.57
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.20
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.24
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.18
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.21
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.28
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.27
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.16
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.14
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.15
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.21
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 19:30	JGH	1.2
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.15
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.36
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.27
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 19:30	JGH	0.35
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 19:30	JGH	0.19
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.19
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.11
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.17
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.29
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.18
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.19
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.45
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.17
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.17
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.20
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.34
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.13
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.26
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.20
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.12



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.16 (continued)

Sample Tag: Trip Blank (4/26)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 19:30	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:30	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:30	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.17
Sample Tag: Field Blank (4/26)
Collected Date/Time: 04/26/2013 00:01
Matrix: Groundwater
COC Reference: 81594

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	2.7	IR

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

pH check for VOCs	<2	STD Units		N/A	05/07/13 11:30	WAT		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 19:50	JGH	0.27
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 19:50	JGH	4.0
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.24
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.13
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.25
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 19:50	JGH	0.38
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 19:50	JGH	3.3
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.57
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.20
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.24
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.18
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.21
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.28
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.27
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.16
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.14
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.15
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.21
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 19:50	JGH	1.2
Chloroform	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.15
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.36
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.27
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 19:50	JGH	0.35
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 19:50	JGH	0.19
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.19
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.11
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.17
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.29
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.18
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.19
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.45
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.17
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.17
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.20
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.34
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.13
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.26
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.20
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.12



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56230.17 (continued)

Sample Tag: Field Blank (4/26)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 19:50	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 19:50	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 19:50	JGH	0.21	

Merit

Laboratories, Inc.

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

C.O.C. PAGE # 1 OF 2

81592

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME <i>Mike Smith</i>		
COMPANY <i>Applied Eco Systems, Inc.</i>		
ADDRESS <i>6-4300 S. Saginaw</i>		
CITY <i>Burton</i>	STATE <i>MI</i>	ZIP CODE <i>48529</i>
PHONE NO. <i>810.715.2525</i>	FAX NO. <i>810.715.2526</i>	P.O. NO. <i>11-4317-102</i>
E-MAIL ADDRESS <i>mds-ae@yahoo.com</i>		QUOTE NO.

CONTACT NAME <i>RACER</i>		☐ SAME
COMPANY <i>↳ 12990-11-01</i>		
ADDRESS		
CITY	STATE	ZIP CODE
PHONE NO.	E-MAIL ADDRESS	

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

PROJECT NO./NAME <i>12990-11-01 / Former Building 9</i>	SAMPLER(S) - PLEASE PRINT/SIGN NAME <i>Josh Adams / Josh Adams</i>
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER	
DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☒ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER	

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

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VO	PN	SG																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</
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RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>Josh Adams</i>	☒ Sampler	DATE <i>4/26/13</i>	TIME <i>17:48</i>
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RELINQUISHED BY: SIGNATURE/ORGANIZATION		DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION		DATE	TIME

RELINQUISHED BY: SIGNATURE/ORGANIZATION <i>Dropbox</i>	DATE	TIME
RECEIVED BY: SIGNATURE/ORGANIZATION <i>Talbot Fawcett</i>	DATE <i>4/29/13</i>	TIME <i>8:00</i>
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS
NOTES:		TEMP. ON ARRIVAL <i>2.7</i>

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



81594

INVOICE TO

CONTACT NAME		☐ SAME	
COMPANY RACER			
ADDRESS ↳ 12990-11-01			
CITY		STATE	ZIP CODE
PHONE NO.		E-MAIL ADDRESS	
ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)			

<i>VOCs</i> <i>PVAs</i> <i>8 RCRA Metals</i> Certifications ☐ OHIO VAP ☐ Drinking Water ☐ DoD ☐ NPDES Project Locations ☐ Detroit ☐ New York ☐ Other _____ Special Instructions
--

Containers & Preservatives

RELINQUISHED BY:			DATE		TIME	
SIGNATURE/ORGANIZATION			Dropbox			
RECEIVED BY:			DATE		TIME	
SIGNATURE/ORGANIZATION			Tcdmbr Faust		4/29/13 500	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES:	TEMP. ON ARRIVAL 2.7		
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS				

Rev 5 18 12



Analytical Laboratory Report

Report ID: S56254.01(01)
Generated on 05/10/2013

Report to

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

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

Report produced by

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

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

Contacts for report questions:

Tabitha Faust (tfaust@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S56254.01-S56254.10
Project: 12990-11-01/ Former Building 9-Delphi
Collected Date: 04/30/2013
Submitted Date/Time: 05/01/2013 08:41
Sampled by: Josh Adams
P.O. #: 11-4317-102

Report Notes

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

Laboratory Certifications:

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

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Sample Summary (10 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56254.01	SB-119 (04/30/2013) (10-11)	Soil	04/30/2013 13:47
S56254.02	SB-119 (04/30/2013) (17-18)	Soil	04/30/2013 14:03
S56254.03	SB-120 (04/30/2013) (8-9)	Soil	04/30/2013 14:51
S56254.04	SB-121 (04/30/2013) (15-16)	Soil	04/30/2013 15:18
S56254.05	SB-121 (04/30/2013) (23-24)	Soil	04/30/2013 15:26
S56254.06	SB-122 (04/30/2013) (15-16)	Soil	04/30/2013 16:04
S56254.07	SB-123 (04/30/2013) (5-6)	Soil	04/30/2013 16:33
S56254.08	DUP-1 (04/30/2013)	Soil	04/30/2013 00:01
S56254.09	Field Blank (04/30/2013)	Methanol	04/30/2013 00:01
S56254.10	Trip Blank (04/30/2013)	Methanol	04/30/2013 00:01



Analytical Laboratory Report

Lab Sample ID: S56254.01

Sample Tag: SB-119 (04/30/2013) (10-11)

Collected Date/Time: 04/30/2013 13:47

Matrix: Soil

COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst MDL	Flags
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Inorganics

Total Solids	86	%	1	Std M 2540 B	05/02/13 11:00	WAR	
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:17	WAT 16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:17	WAT 67	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT 18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT 7.8	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:17	WAT 13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT 18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	05/08/13 14:17	WAT 18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT 27	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT 40	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:17	WAT 11	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT 8.5	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT 11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 13	
Methylene chloride	13	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT 11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 9.9	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:17	WAT 230	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT 15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 7.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 14:17	WAT 28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 14:17	WAT 16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 8.5	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 13	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT 11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT 15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 6.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT 11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 7.8	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 23	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT 21	

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



Analytical Laboratory Report

Lab Sample ID: S56254.01 (continued)

Sample Tag: SB-119 (04/30/2013) (10-11)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	9.2	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 14:17	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	7.8	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	31	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	15	
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	12	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	15	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	9.2	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	21	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	18	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	15	
1,2,4-Trimethylbenzene	21	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	16	J
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	18	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	18	
1,2,3-Trimethylbenzene	12.1	ug/kg	100	SW8260B/5035	05/08/13 14:17	WAT	2.8	BJ
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:17	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:17	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	05/08/13 14:17	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	05/08/13 14:17	WAT	20	
Naphthalene	64	ug/kg	470	SW8260B/5035	05/08/13 14:17	WAT	18	J
2-Methylnaphthalene	49	ug/kg	470	SW8260B/5035	05/08/13 14:17	WAT	20	J

M-Result reported to MDL not RDL

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

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S56254.02
Sample Tag: SB-119 (04/30/2013) (17-18)
Collected Date/Time: 04/30/2013 14:03
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst MDL	Flags
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Inorganics

Total Solids	87	%	1	Std M 2540 B	05/02/13 11:00	WAR	
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT 16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:36	WAT 64	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT 17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT 7.4	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT 13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT 17	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:36	WAT 17	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT 26	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT 39	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT 11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT 8.1	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT 11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 12	
Methylene chloride	15	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT 11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 9.5	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 14:36	WAT 220	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT 14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 6.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 14:36	WAT 26	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 14:36	WAT 15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 8.1	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT 10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT 14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 6.1	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT 11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 7.4	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT 20	

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



Analytical Laboratory Report

Lab Sample ID: S56254.02 (continued)

Sample Tag: SB-119 (04/30/2013) (17-18)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	8.8	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 14:36	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	7.4	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	8.8	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	20	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	18	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 14:36	WAT	2.7	
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 14:36	WAT	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:36	WAT	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:36	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	05/08/13 14:36	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW8260B/5035	05/08/13 14:36	WAT	19	
Naphthalene	22	ug/kg	450	SW8260B/5035	05/08/13 14:36	WAT	17	J
2-Methylnaphthalene	19	ug/kg	450	SW8260B/5035	05/08/13 14:36	WAT	19	J

M-Result reported to MDL not RDL

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



Analytical Laboratory Report

Lab Sample ID: S56254.03

Sample Tag: SB-120 (04/30/2013) (8-9)

Collected Date/Time: 04/30/2013 14:51

Matrix: Soil

COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst MDL	Flags
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Inorganics

Total Solids	79	%	1	Std M 2540 B	05/02/13 11:00	WAR	
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:54	WAT 18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	05/08/13 14:54	WAT 74	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT 20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT 8.7	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:54	WAT 15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT 20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	05/08/13 14:54	WAT 20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT 30	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT 45	
Vinyl chloride	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 14:54	WAT 13	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT 9.5	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT 13	
1,1-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 14	
Methylene chloride	18	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT 13	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 13	
1,1-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 11	
cis-1,2-Dichloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	05/08/13 14:54	WAT 260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT 17	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 7.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 14:54	WAT 31	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 14:54	WAT 17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 9.5	
Benzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 15	
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 14	
Trichloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 13	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT 12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT 17	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 7.1	
Toluene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT 13	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 8.7	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 13	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT 23	

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



Analytical Laboratory Report

Lab Sample ID: S56254.03 (continued)

Sample Tag: SB-120 (04/30/2013) (8-9)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 14:54	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	8.7	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	35	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	17	
Styrene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	17	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	23	
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	21	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	17	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	21	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 14:54	WAT	3.2	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 14:54	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	05/08/13 14:54	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 14:54	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	05/08/13 14:54	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	520	SW8260B/5035	05/08/13 14:54	WAT	22	
Naphthalene	Not detected	ug/kg	520	SW8260B/5035	05/08/13 14:54	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	520	SW8260B/5035	05/08/13 14:54	WAT	22	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S56254.04
Sample Tag: SB-121 (04/30/2013) (15-16)
Collected Date/Time: 04/30/2013 15:18
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst MDL	Flags
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Inorganics

Total Solids	86	%	1	Std M 2540 B	05/02/13 11:00	WAR	
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT 16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 15:13	WAT 65	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT 17	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT 7.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT 13	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT 17	
2-Butanone (MEK)	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 15:13	WAT 17	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT 26	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT 39	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT 11	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT 8.3	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT 11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 12	
Methylene chloride	14	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT 11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 9.7	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 15:13	WAT 230	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT 14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 6.9	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 15:13	WAT 27	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 15:13	WAT 15	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 8.3	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 13	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 11	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 13	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT 10	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT 14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 6.2	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT 11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 7.6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 22	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 12	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT 20	

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



Analytical Laboratory Report

Lab Sample ID: S56254.04 (continued)

Sample Tag: SB-121 (04/30/2013) (15-16)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	9.0	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 15:13	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	7.6	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	30	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	12	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	9.0	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	20	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	17	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	18	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	14	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	15	
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	17	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	19	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	13	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	18	
1,2,3-Trimethylbenzene	5.5	ug/kg	100	SW8260B/5035	05/08/13 15:13	WAT	2.8	BJ
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 15:13	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:13	WAT	10	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:13	WAT	13	
1,2,4-Trichlorobenzene	Not detected	ug/kg	460	SW8260B/5035	05/08/13 15:13	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	460	SW8260B/5035	05/08/13 15:13	WAT	19	
Naphthalene	Not detected	ug/kg	460	SW8260B/5035	05/08/13 15:13	WAT	17	
2-Methylnaphthalene	25	ug/kg	460	SW8260B/5035	05/08/13 15:13	WAT	19	J

M-Result reported to MDL not RDL

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



Analytical Laboratory Report

Lab Sample ID: S56254.05
Sample Tag: SB-121 (04/30/2013) (23-24)
Collected Date/Time: 04/30/2013 15:26
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst MDL	Flags
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Inorganics

Total Solids	81	%	1	Std M 2540 B	05/02/13 11:00	WAR	
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:31	WAT 18	
Acetone	Not detected	ug/kg	2,000	SW8260B/5035	05/08/13 15:31	WAT 73	
Methyl iodide	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT 20	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT 8.6	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:31	WAT 15	
Acrylonitrile	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT 20	
2-Butanone (MEK)	Not detected	ug/kg	1,200	SW8260B/5035	05/08/13 15:31	WAT 20	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT 30	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT 44	
Vinyl chloride	110	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 19	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 15:31	WAT 12	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT 9.4	
Trichlorofluoromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT 12	
1,1-Dichloroethene	16	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 14	J
Methylene chloride	19	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT 12	BJ
trans-1,2-Dichloroethene	66	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 13	J
1,1-Dichloroethane	57	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 11	J
cis-1,2-Dichloroethene	2,970	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 16	
Tetrahydrofuran	Not detected	ug/kg	2,000	SW8260B/5035	05/08/13 15:31	WAT 260	
Chloroform	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 13	
Bromochloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT 16	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 7.8	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 15:31	WAT 30	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 15:31	WAT 17	
Carbon tetrachloride	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 9.4	
Benzene	44	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 15	J
1,2-Dichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 14	
Trichloroethene	400	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 12	
1,2-Dichloropropane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 15	
Bromodichloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT 12	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT 16	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 7.0	
Toluene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT 12	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 8.6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 25	
Tetrachloroethene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT 13	

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

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S56254.05 (continued)
Sample Tag: SB-121 (04/30/2013) (23-24)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	23	
Dibromochloromethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	10	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 15:31	WAT	16	M
Chlorobenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	14	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	8.6	
Ethylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	18	
p,m-Xylene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	34	
o-Xylene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	16	
Styrene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	13	
Isopropylbenzene	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	16	
Bromoform	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	10	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	23	
1,2,3-Trichloropropane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	21	
n-Propylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	18	
Bromobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	20	
1,3,5-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	20	
tert-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	16	
1,2,4-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	17	
sec-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	20	
p-Isopropyltoluene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	21	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	16	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	15	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	20	
1,2,3-Trimethylbenzene	Not detected	ug/kg	200	SW8260B/5035	05/08/13 15:31	WAT	3.1	
n-Butylbenzene	Not detected	ug/kg	80	SW8260B/5035	05/08/13 15:31	WAT	19	
Hexachloroethane	Not detected	ug/kg	500	SW8260B/5035	05/08/13 15:31	WAT	12	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 15:31	WAT	15	
1,2,4-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	05/08/13 15:31	WAT	18	
1,2,3-Trichlorobenzene	Not detected	ug/kg	510	SW8260B/5035	05/08/13 15:31	WAT	22	
Naphthalene	Not detected	ug/kg	510	SW8260B/5035	05/08/13 15:31	WAT	20	
2-Methylnaphthalene	Not detected	ug/kg	510	SW8260B/5035	05/08/13 15:31	WAT	22	

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S56254.06
Sample Tag: SB-122 (04/30/2013) (15-16)
Collected Date/Time: 04/30/2013 16:04
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
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Inorganics

Total Solids	91	%	1	Std M 2540 B	05/02/13 11:00	WAR		
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	150	Y
Acetone	Not detected	ug/kg	10,000	SW8260B/5035	05/09/13 13:18	JGH	590	Y
Methyl iodide	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
Carbon disulfide	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	69	Y
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	120	Y
Acrylonitrile	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
2-Butanone (MEK)	Not detected	ug/kg	9,500	SW8260B/5035	05/09/13 13:18	JGH	160	Y
Dichlorodifluoromethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	240	Y
Chloromethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	360	Y
Vinyl chloride	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	150	Y
Bromomethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	100	Y
Chloroethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	76	Y
Trichlorofluoromethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	100	Y
1,1-Dichloroethene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
Methylene chloride	100	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	100	BJY
trans-1,2-Dichloroethene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
1,1-Dichloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	88	Y
cis-1,2-Dichloroethene	1,600	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	130	Y
Tetrahydrofuran	Not detected	ug/kg	10,000	SW8260B/5035	05/09/13 13:18	JGH	2100	Y
Chloroform	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
Bromochloromethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	130	Y
1,1,1-Trichloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	63	Y
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	30,000	SW8260B/5035	05/09/13 13:18	JGH	250	Y
2-Hexanone	Not detected	ug/kg	30,000	SW8260B/5035	05/09/13 13:18	JGH	140	Y
Carbon tetrachloride	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	76	Y
Benzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	120	Y
1,2-Dichloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
Trichloroethene	14,400	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	100	Y
1,2-Dichloropropane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	120	Y
Bromodichloromethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	95	Y
Dibromomethane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	130	Y
cis-1,3-Dichloropropene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	57	Y
Toluene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	100	Y
trans-1,3-Dichloropropene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	69	Y
1,1,2-Trichloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	200	Y
Tetrachloroethene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y

Y-Elevated reporting limit due to high target concentration

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



Analytical Laboratory Report

Lab Sample ID: S56254.06 (continued)

Sample Tag: SB-122 (04/30/2013) (15-16)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	180	Y
Dibromochloromethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	82	Y
1,2-Dibromoethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:18	JGH	130	YM
Chlorobenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	69	Y
Ethylbenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	150	Y
p,m-Xylene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	280	Y
o-Xylene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	130	Y
Styrene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	110	Y
Isopropylbenzene	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	130	Y
Bromoform	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	82	Y
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	180	Y
1,2,3-Trichloropropane	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	170	Y
n-Propylbenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	150	Y
Bromobenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
1,3,5-Trimethylbenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
tert-Butylbenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	130	Y
1,2,4-Trimethylbenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	140	Y
sec-Butylbenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	160	Y
p-Isopropyltoluene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	170	Y
1,3-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	130	Y
1,4-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	120	Y
1,2-Dichlorobenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	160	Y
1,2,3-Trimethylbenzene	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:18	JGH	25	Y
n-Butylbenzene	Not detected	ug/kg	600	SW8260B/5035	05/09/13 13:18	JGH	150	Y
Hexachloroethane	Not detected	ug/kg	4,000	SW8260B/5035	05/09/13 13:18	JGH	95	Y
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:18	JGH	120	Y
1,2,4-Trichlorobenzene	Not detected	ug/kg	4,200	SW8260B/5035	05/09/13 13:18	JGH	150	Y
1,2,3-Trichlorobenzene	Not detected	ug/kg	4,200	SW8260B/5035	05/09/13 13:18	JGH	180	Y
Naphthalene	Not detected	ug/kg	4,200	SW8260B/5035	05/09/13 13:18	JGH	160	Y
2-Methylnaphthalene	Not detected	ug/kg	4,200	SW8260B/5035	05/09/13 13:18	JGH	180	Y

Y-Elevated reporting limit due to high target concentration

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S56254.07

Sample Tag: SB-123 (04/30/2013) (5-6)

Collected Date/Time: 04/30/2013 16:33

Matrix: Soil

COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst MDL	Flags
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Inorganics

Total Solids	86	%	1	Std M 2540 B	05/02/13 11:00	WAR	
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:07	WAT 16	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 16:07	WAT 67	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT 18	
Carbon disulfide	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT 7.9	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:07	WAT 14	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT 18	
2-Butanone (MEK)	Not detected	ug/kg	1,100	SW8260B/5035	05/08/13 16:07	WAT 18	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT 27	
Chloromethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT 41	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 17	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:07	WAT 11	
Chloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT 8.6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT 11	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 13	
Methylene chloride	18	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT 11	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 12	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 10.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 14	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 16:07	WAT 240	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 12	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT 15	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 7.1	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 16:07	WAT 28	
2-Hexanone	Not detected	ug/kg	4,000	SW8260B/5035	05/08/13 16:07	WAT 16	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 8.6	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 14	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 13	
Trichloroethene	41	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 11	J
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 14	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT 11	
Dibromomethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT 15	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 6.4	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT 11	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 7.9	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 23	
Tetrachloroethene	18	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 12	J
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT 21	

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



Analytical Laboratory Report

Lab Sample ID: S56254.07 (continued)

Sample Tag: SB-123 (04/30/2013) (5-6)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	9.3	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/08/13 16:07	WAT	14	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	13	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	7.9	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	16	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	31	
o-Xylene	39	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	15	J
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	12	
Isopropylbenzene	65	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	15	J
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	9.3	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	21	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	19	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	16	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	18	
1,3,5-Trimethylbenzene	29	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	19	J
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	15	
1,2,4-Trimethylbenzene	37	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	16	J
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	18	
p-Isopropyltoluene	93	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	19	J
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	14	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	14	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	19	
1,2,3-Trimethylbenzene	42.1	ug/kg	100	SW8260B/5035	05/08/13 16:07	WAT	2.9	BJ
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/08/13 16:07	WAT	17	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	11	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	400	SW8260B/5035	05/08/13 16:07	WAT	14	
1,2,4-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	05/08/13 16:07	WAT	16	
1,2,3-Trichlorobenzene	Not detected	ug/kg	470	SW8260B/5035	05/08/13 16:07	WAT	20	
Naphthalene	210	ug/kg	470	SW8260B/5035	05/08/13 16:07	WAT	18	J
2-Methylnaphthalene	345	ug/kg	470	SW8260B/5035	05/08/13 16:07	WAT	20	J

M-Result reported to MDL not RDL

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

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S56254.08
Sample Tag: DUP-1 (04/30/2013)
Collected Date/Time: 04/30/2013 00:01
Matrix: Soil
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR
1	4oz Glass	None	Yes	4.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
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Inorganics

Total Solids	87	%	1	Std M 2540 B	05/02/13 11:00	WAR		
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Organics - Volatiles

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	15	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:00	JGH	61	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	16	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	7.2	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	12	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	16	
2-Butanone (MEK)	Not detected	ug/kg	980	SW8260B/5035	05/09/13 13:00	JGH	16	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	25	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	37	
Vinyl chloride	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	16	
Bromomethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	10	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	7.8	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	10	
1,1-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
Methylene chloride	12	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	10	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	11	
1,1-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	9.1	
cis-1,2-Dichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	13	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/09/13 13:00	JGH	220	
Chloroform	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	11	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	14	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	6.5	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:00	JGH	25	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/09/13 13:00	JGH	14	
Carbon tetrachloride	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	7.8	
Benzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
1,2-Dichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
Trichloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	10	
1,2-Dichloropropane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	9.8	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	14	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	5.9	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	10	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	7.2	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	21	
Tetrachloroethene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	11	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	19	

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



Analytical Laboratory Report

Lab Sample ID: S56254.08 (continued)

Sample Tag: DUP-1 (04/30/2013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	8.5	
1,2-Dibromoethane	Not detected	ug/kg	30	SW8260B/5035	05/09/13 13:00	JGH	13	M
Chlorobenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	12	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	7.2	
Ethylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	15	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	29	
o-Xylene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	14	
Styrene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	11	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	14	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	8.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	19	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	18	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	15	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	16	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	17	
tert-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	14	
1,2,4-Trimethylbenzene	22	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	14	J
sec-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	16	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	18	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	13	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	12	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	17	
1,2,3-Trimethylbenzene	11.7	ug/kg	100	SW8260B/5035	05/09/13 13:00	JGH	2.6	J
n-Butylbenzene	Not detected	ug/kg	70	SW8260B/5035	05/09/13 13:00	JGH	16	
Hexachloroethane	Not detected	ug/kg	400	SW8260B/5035	05/09/13 13:00	JGH	9.8	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/09/13 13:00	JGH	12	
1,2,4-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	05/09/13 13:00	JGH	15	
1,2,3-Trichlorobenzene	Not detected	ug/kg	430	SW8260B/5035	05/09/13 13:00	JGH	18	
Naphthalene	55	ug/kg	430	SW8260B/5035	05/09/13 13:00	JGH	16	J
2-Methylnaphthalene	39	ug/kg	430	SW8260B/5035	05/09/13 13:00	JGH	18	BJ

M-Result reported to MDL not RDL

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

B-Compound also found in associated method blank



Analytical Laboratory Report

Lab Sample ID: S56254.09
Sample Tag: Field Blank (04/30/2013)
Collected Date/Time: 04/30/2013 00:01
Matrix: Methanol
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR

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

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	05/08/13 16:43	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 16:43	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	05/08/13 16:43	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	05/08/13 16:43	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 16:43	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.0	
Methylene chloride	13.5	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	8.0	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 16:43	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 16:43	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 16:43	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	05/08/13 16:43	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	9.0	

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

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S56254.09 (continued)

Sample Tag: Field Blank (04/30/2013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	5.5	
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 16:43	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 16:43	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 16:43	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 16:43	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 16:43	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 16:43	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 16:43	WAT	14	



Analytical Laboratory Report

Lab Sample ID: S56254.10
Sample Tag: Trip Blank (04/30/2013)
Collected Date/Time: 04/30/2013 00:01
Matrix: Methanol
COC Reference: 82695

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	4.2	IR

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

Volatile Organics 5035

Diethyl ether	Not detected	ug/kg	200	SW8260B/5035	05/08/13 17:01	WAT	12	
Acetone	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 17:01	WAT	47	
Methyl iodide	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
Carbon disulfide	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	5.5	
tert-Methyl butyl ether (MTBE)	Not detected	ug/kg	200	SW8260B/5035	05/08/13 17:01	WAT	9.5	
Acrylonitrile	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
2-Butanone (MEK)	Not detected	ug/kg	750	SW8260B/5035	05/08/13 17:01	WAT	13	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	19	
Chloromethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	29	
Vinyl chloride	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	12	
Bromomethane	Not detected	ug/kg	200	SW8260B/5035	05/08/13 17:01	WAT	8.0	
Chloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	6.0	
Trichlorofluoromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	8.0	
1,1-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.0	
Methylene chloride	11.5	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	8.0	BJ
trans-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.5	
1,1-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	7.0	
cis-1,2-Dichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	10	
Tetrahydrofuran	Not detected	ug/kg	1,000	SW8260B/5035	05/08/13 17:01	WAT	170	
Chloroform	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.5	
Bromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	11	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	5.0	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 17:01	WAT	20	
2-Hexanone	Not detected	ug/kg	3,000	SW8260B/5035	05/08/13 17:01	WAT	11	
Carbon tetrachloride	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	6.0	
Benzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.5	
1,2-Dichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.0	
Trichloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.0	
1,2-Dichloropropane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.5	
Bromodichloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	7.5	
Dibromomethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	11	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	4.5	
Toluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	8.0	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	5.5	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	16	
Tetrachloroethene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.5	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	15	
Dibromochloromethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	6.5	
1,2-Dibromoethane	Not detected	ug/kg	20	SW8260B/5035	05/08/13 17:01	WAT	10	M
Chlorobenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	9.0	

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

M-Result reported to MDL not RDL



Analytical Laboratory Report

Lab Sample ID: S56254.10 (continued)

Sample Tag: Trip Blank (04/30/2013)

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics 5035 (continued)								
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	5.5	
Ethylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	12	
p,m-Xylene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	22	
o-Xylene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	11	
Styrene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	8.5	
Isopropylbenzene	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	11	
Bromoform	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	6.5	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	15	
1,2,3-Trichloropropane	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	14	
n-Propylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	12	
Bromobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
1,3,5-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
tert-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	11	
1,2,4-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	11	
sec-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	13	
p-Isopropyltoluene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	14	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	10	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	9.5	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	13	
1,2,3-Trimethylbenzene	Not detected	ug/kg	100	SW8260B/5035	05/08/13 17:01	WAT	2.0	
n-Butylbenzene	Not detected	ug/kg	50	SW8260B/5035	05/08/13 17:01	WAT	12	
Hexachloroethane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	7.5	
1,2-Dibromo-3-chloropropane	Not detected	ug/kg	300	SW8260B/5035	05/08/13 17:01	WAT	9.5	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 17:01	WAT	12	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 17:01	WAT	14	
Naphthalene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 17:01	WAT	13	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8260B/5035	05/08/13 17:01	WAT	14	



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

C.O.C. PAGE # 1 OF 1

82695

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME Mike Smith
COMPANY Applied Eco Systems, Inc.
ADDRESS 2-4300 S. Saginaw
CITY Burton STATE MI ZIP CODE 48529
PHONE NO. 810.715.2525 FAX NO. 810.715.2526 P.O. NO. 11-4317-102
E-MAIL ADDRESS ae-mds@yahoo.com QUOTE NO.

CONTACT NAME RACER ☐ SAME
COMPANY L-12990-11-01
ADDRESS
CITY STATE ZIP CODE
PHONE NO. E-MAIL ADDRESS

PROJECT NO./NAME 12990-11-01 / Former Building 9 - Delphi SAMPLER(S) PLEASE PRINT/SIGN NAME Josh Adams
TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☒ STANDARD ☐ OTHER
DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☒ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER

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

Containers & Preservatives

MERIT LAB NO. FOR LAB USE ONLY	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO ₃	H ₂ SO ₄	NaOH	MeOH	OTHER	VOC																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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RELINQUISHED BY: Josh Adams / Applied Eco Systems, Inc. DATE 5/1/13 TIME 8:41
RECEIVED BY: Tabatha Faust DATE 5/1/13 TIME 14:27
RELINQUISHED BY: DATE TIME
RECEIVED BY: DATE TIME

RELINQUISHED BY: DATE TIME
RECEIVED BY: Tabatha Faust DATE 5/1/13 TIME 14:27
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
SEAL NO. SEAL INTACT YES ☐ NO ☐ INITIALS
NOTES: TEMP. ON ARRIVAL 42



Analytical Laboratory Report

Revised Report

Report ID: S56255.01(02)

Generated on 05/21/2013

Replaces report S56255.01(01) generated on 05/10/2013

Report to

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

Phone: 810-715-2525 FAX: 810-715-2526

Email: msmith@appliedecosystems.com

Report produced by

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

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

Contacts for report questions:

Tabitha Faust (tfaust@meritlabs.com)

Barbara Ball (bball@meritlabs.com)

Report Summary

Lab Sample ID(s): S56255.01-S56255.04

Project: 12990-11-01/ Former Building 9-Delphi

Collected Date: 04/30/2013

Submitted Date/Time: 05/01/2013 08:41

Sampled by: Josh Adams

P.O. #: 11-4317-102

MDL's added to the report

Report Notes

Results relate only to items tested as received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc..

Laboratory Certifications:

Michigan DNRE (#9956), DOD/ISO 17025 (#69699), WBENC (#2005110032), Ohio EPA (#CL0002), IN Drinking Water (#C-MI-07), NELAC NY (#11814)

Some analytes reported may not be certified. Full certification lists are available upon request.

Violetta F. Murshak
Laboratory Director



Analytical Laboratory Report

Revised Report

Sample Summary (4 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S56255.01	MW-106SR	Groundwater	04/30/2013 13:04
S56255.02	DUP	Groundwater	04/30/2013 00:01
S56255.03	Field Blank	Groundwater	04/30/2013 00:01
S56255.04	Trip Blank	Groundwater	04/30/2013 00:01



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.01
Sample Tag: MW-106SR
Collected Date/Time: 04/30/2013 13:04
Matrix: Groundwater
COC Reference: 82694

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

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

Mercury Digestion	Completed			E245.1	05/01/13 12:30	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	05/07/13 21:45	EMR		

Metals

Arsenic	0.002	mg/L	0.002	E200.8	05/10/13 16:03	PER	0.000052	
Barium	0.113	mg/L	0.005	E200.8	05/10/13 16:03	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 16:03	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 16:03	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 16:03	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	05/01/13 16:11	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 16:03	PER	0.00027	
Silver	0.0005	mg/L	0.0005	E200.8	05/10/13 16:03	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/08/13 12:31	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:31	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/08/13 12:31	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/08/13 12:31	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:31	PL	0.31	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 21:31	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 21:31	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.01 (continued)

Sample Tag: MW-106SR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 21:31	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 21:31	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 21:31	JGH	1.2	
Chloroform	0.51	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.15	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 21:31	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 21:31	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 21:31	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.15	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.01 (continued)

Sample Tag: MW-106SR

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:31	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:31	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.02
Sample Tag: DUP
Collected Date/Time: 04/30/2013 00:01
Matrix: Groundwater
COC Reference: 82694

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR
2	1L Amber	None	Yes	4.2	IR
1	125ml Plastic	HNO3	Yes	4.2	IR

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

Mercury Digestion	Completed			E245.1	05/01/13 12:30	CCM		
Metal Digestion	Completed			3015A	05/10/13 10:00	PER		
pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
PNA Extraction	Completed			3510C	05/07/13 21:45	EMR		

Metals

Arsenic	0.002	mg/L	0.002	E200.8	05/10/13 16:05	PER	0.000052	
Barium	0.112	mg/L	0.005	E200.8	05/10/13 16:05	PER	0.00022	
Cadmium	Not detected	mg/L	0.0005	E200.8	05/10/13 16:05	PER	0.000067	
Chromium	Not detected	mg/L	0.005	E200.8	05/10/13 16:05	PER	0.00013	
Lead	Not detected	mg/L	0.003	E200.8	05/10/13 16:05	PER	0.000043	
Mercury	Not detected	mg/L	0.0002	E245.1	05/01/13 16:07	CCM	0.000030	
Selenium	Not detected	mg/L	0.005	E200.8	05/10/13 16:05	PER	0.00027	
Silver	Not detected	mg/L	0.0005	E200.8	05/10/13 16:05	PER	0.000018	

Organics - Semi-Volatiles

Polynuclear Aromatic Hydrocarbon

Acenaphthene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.32	
Acenaphthylene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.29	
Anthracene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.30	
Benzo(a)anthracene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.28	
Benzo(a)pyrene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.27	
Benzo(b)fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.30	
Benzo(k)fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.30	
Benzo(ghi)perylene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.28	
Chrysene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.30	
Dibenzo(ah)anthracene	Not detected	ug/L	2	SW8270C	05/08/13 12:53	PL	0.32	
Fluoranthene	Not detected	ug/L	1	SW8270C	05/08/13 12:53	PL	0.32	
Fluorene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.31	
Indeno(1,2,3-cd)pyrene	Not detected	ug/L	2	SW8270C	05/08/13 12:53	PL	0.27	
Naphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.27	
Phenanthrene	Not detected	ug/L	2	SW8270C	05/08/13 12:53	PL	0.30	
Pyrene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.29	
2-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.28	
1-Methylnaphthalene	Not detected	ug/L	5	SW8270C	05/08/13 12:53	PL	0.31	

Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 21:51	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 21:51	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.24	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.02 (continued)

Sample Tag: DUP

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 21:51	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 21:51	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 21:51	JGH	1.2	
Chloroform	0.52	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.15	J
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 21:51	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 21:51	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.18	
Bromodichloromethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.19	
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.26	
Dibromochloromethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.20	
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 21:51	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.15	

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.02 (continued)

Sample Tag: DUP

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 21:51	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 21:51	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.03
Sample Tag: Field Blank
Collected Date/Time: 04/30/2013 00:01
Matrix: Groundwater
COC Reference: 82694

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

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

pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 20:10	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 20:10	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 20:10	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 20:10	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 20:10	JGH	1.2	
Chloroform	2	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 20:10	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 20:10	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.18	
Bromodichloromethane	0.95	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.19	J
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.26	
Dibromochloromethane	0.26	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.20	J

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.03 (continued)

Sample Tag: Field Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 20:10	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:10	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:10	JGH	0.21	



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.04
Sample Tag: Trip Blank
Collected Date/Time: 04/30/2013 00:01
Matrix: Groundwater
COC Reference: 82694

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
3	40ml Glass	HCL	Yes	4.2	IR

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

pH check for VOCs	<2	STD Units		N/A	05/07/13 11:20	WAT		
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Organics - Volatiles

Volatile Organics - DEQ List

Diethyl ether	Not detected	ug/L	10	SW8260B	05/06/13 20:30	JGH	0.27	
Acetone	Not detected	ug/L	50	SW8260B	05/06/13 20:30	JGH	4.0	
Methyl iodide	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.24	
Carbon disulfide	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.13	
tert-Methyl butyl ether (MTBE)	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.25	
Acrylonitrile	Not detected	ug/L	2	SW8260B	05/06/13 20:30	JGH	0.38	
2-Butanone (MEK)	Not detected	ug/L	25	SW8260B	05/06/13 20:30	JGH	3.3	
Dichlorodifluoromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.57	
Chloromethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.20	
Vinyl chloride	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.24	
Bromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.18	
Chloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.21	
Trichlorofluoromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.28	
1,1-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.27	
Methylene chloride	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.16	
trans-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.14	
1,1-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.15	
cis-1,2-Dichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.21	
Tetrahydrofuran	Not detected	ug/L	90	SW8260B	05/06/13 20:30	JGH	1.2	
Chloroform	2	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.15	
Bromochloromethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.36	
1,1,1-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.27	
4-Methyl-2-pentanone (MIBK)	Not detected	ug/L	50	SW8260B	05/06/13 20:30	JGH	0.35	
2-Hexanone	Not detected	ug/L	50	SW8260B	05/06/13 20:30	JGH	0.19	
Carbon tetrachloride	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.19	
Benzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.11	
1,2-Dichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.17	
Trichloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.29	
1,2-Dichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.18	
Bromodichloromethane	0.93	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.19	J
Dibromomethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.45	
cis-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.17	
Toluene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.17	
trans-1,3-Dichloropropene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.20	
1,1,2-Trichloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.34	
Tetrachloroethene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.13	
trans-1,4-Dichloro-2-butene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.26	
Dibromochloromethane	0.26	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.20	J

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



Analytical Laboratory Report

Revised Report

Lab Sample ID: S56255.04 (continued)

Sample Tag: Trip Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Analyst	MDL	Flags
Organics - Volatiles (continued)								
Volatile Organics - DEQ List (continued)								
1,2-Dibromoethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.12	
Chlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.16	
1,1,1,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.22	
Ethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.10	
p,m-Xylene	Not detected	ug/L	2	SW8260B	05/06/13 20:30	JGH	0.42	
o-Xylene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.16	
Styrene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.13	
Isopropylbenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.12	
Bromoform	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.35	
1,1,2,2-Tetrachloroethane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.27	
1,2,3-Trichloropropane	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.54	
n-Propylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.12	
Bromobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.15	
1,3,5-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.18	
tert-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.14	
1,2,4-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.16	
sec-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.16	
p-Isopropyltoluene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.19	
1,3-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.20	
1,4-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.18	
1,2-Dichlorobenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.13	
1,2,3-Trimethylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.14	
n-Butylbenzene	Not detected	ug/L	1	SW8260B	05/06/13 20:30	JGH	0.17	
Hexachloroethane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.35	
1,2-Dibromo-3-chloropropane	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.48	
1,2,4-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.24	
1,2,3-Trichlorobenzene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.25	
Naphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.18	
2-Methylnaphthalene	Not detected	ug/L	5	SW8260B	05/06/13 20:30	JGH	0.21	



82694

INVOICE TO

CONTACT NAME		RACER		☐ SAME	
COMPANY		→ 12990-11-01			
ADDRESS					
CITY				STATE	ZIP CODE
PHONE NO.			E-MAIL ADDRESS		

Certifications

☐ OHIO VAP ☐ Drinking Water

☐ DoD ☐ NPDES

Project Locations

☐ Detroit ☐ New York

☐ Other _____

Special Instructions

Containers & Preservatives

VOCs				
PNA ₃				
3 RCRA Metals				

RELINQUISHED BY:			DATE	TIME
SIGNATURE/ORGANIZATION				
RECEIVED BY:			DATE	TIME
SIGNATURE/ORGANIZATION			5/11/13	841
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS	NOTES: TEMP. ON ARRIVAL _____	
SEAL NO.	SEAL INTACT YES ☐ NO ☐	INITIALS		

Rev. 5 18 12