

April 20, 2009
File No. 21.0056192.10



Mr. Richard Eisenman
Delphi Automotive Systems LLC
1000 Lexington Ave
Rochester, New York

Re: Additional Downgradient & Building 6 UST Area Groundwater Sampling
November 2008
Delphi Thermal Systems Facility
Lockport, New York

Dear Mr. Eisenman:

535 Washington Street
11th Floor
Buffalo, New York
14203
716-685-2300
FAX 716-685-3629
www.gza.com

GZA GeoEnvironmental of New York (GZA) prepared this letter report to summarize the results of resampling the four downgradient monitoring wells (MW-6-1, MW-6-2, MW-7-2 and MW-7-4) and the three monitoring wells (MW-6-7, MW-6-8 and MW-6-9) associated with the Building 6 UST Area Focused Environmental Assessment (FEA) at the above referenced Site.

The four downgradient monitoring wells were sampled as per our June 5, 2008 Work Plan which was approved in a July 18, 2008 letter from NYSDEC to Delphi. The three monitoring wells associated with the Building 6 UST Area were sampled voluntarily by Delphi to confirm the results of the previous groundwater sampling in August 2008.

I. DOWNGRADIENT MONITORING

BACKGROUND

In late 2007, Delphi began an assessment of downgradient groundwater conditions on the eastern portion of the Site, north and south of the trichloroethylene (TCE) spill area (NYSDEC Site #932113). The purpose of the downgradient groundwater sampling was to assess if contaminated groundwater was migrating off-site at locations not previously investigated in the eastern portion of the Site.

The following is a summary of the downgradient groundwater work to date which is further described in detail later in this report.

- Fall 2007 – Five monitoring wells, designated MW-6-1, MW-6-2, MW-7-1, MW-7-2 and MW-7-3, were installed in November 2007 and sampled in December 2007.
- February 2008 – The above mentioned monitoring wells were sampled for a second time.



- April 2008 – Monitoring well MW-6-2 was resampled. A split sample was also collected by the New York State Department of Environmental Conservation (NYSDEC).
- Summer 2008 - Monitoring well MW-7-4 was installed in July 2008 at the request of NYSDEC. This well was sampled for the first time and wells MW-6-1, MW-6-2 and MW-7-2 were also resampled in August 2008.
- November 2008 – Monitoring wells MW-6-1, MW-6-2, MW-7-2 and MW-7-4 were resampled in November 2008 in conjunction with the monitored natural attenuation groundwater sampling associated with the trichloroethylene spill area.

GROUNDWATER SAMPLING EVENT

November 2007

On November 29 and 30, 2007, groundwater samples were collected from five downgradient monitoring wells (MW-6-1, MW-6-2, MW-7-1, MW-7-2 and MW-7-3) and submitted to Free-Col Laboratories (Free-Col) for analytical testing for volatile organic compounds (VOCs) via EPA Method 8260 Target Analyte List (TCL). Low-flow sampling methodologies were used to purge and collect the groundwater samples in general accordance with our work plan dated October 11, 2007. The attached table presents a summary of the November 2007 analytical results.

VOCs were detected in two of the five monitoring wells (MW-6-2 and MW-7-1). Trichloroethylene (TCE) was detected above method detection limits in the sample collected from MW-6-2 at a concentration of 25 parts per billion (ppb), which exceeds its respective Class GA¹ groundwater criteria of 5 ppb (see attached table).

Four VOCs; TCE (110 ppb), 1,2-dichloroethenes (total) (8 ppb), benzene (3 ppb) and toluene (7 ppb) were detected at a concentration above their method detection limits and above their respective NYSDEC groundwater criteria in the sample collected from MW-7-1.

No VOCs were detected above method detection limits in the groundwater samples analyzed from MW-6-1, MW-7-2 and MW-7-3.

The laboratory report and information on the monitoring wells (i.e., well logs, hydraulic conductivities, etc.) was provided in a letter report dated February 7, 2008.

¹ Division of Water Technical and Operational Guidance Series (1.1.1) “Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations” prepared by the New York State Department of Environmental Conservations, dated October 1993, revised 1998, ERRATA Sheet dated January 1999; and Addendum dated April 2000.



February 2008

Due to the VOCs detected in monitoring wells MW-6-2 and MW-7-1, GZA resampled the five monitoring wells in February 2008. The results are summarized on the attached table. Low-flow sampling methodologies were used to purge and collect the groundwater samples. Water quality readings were not collected, but a minimum of 1.5 well volumes were purged after a constant head was established (MW-6-1, MW-6-2 and MW-7-3) or the well was purged dry (MW-7-1 and MW-7-2), prior to sample collection. Samples were submitted to Free-Col for VOC TCL analysis.

Trichloroethylene (TCE) was detected above method detection limits at one sampling location, MW-7-1, at a concentration of 56 ppb. No other VOCs were detected above method detection limits at this sampling location and no VOCs were detected above method detection limits in the groundwater samples analyzed from MW-6-1, MW-6-2, MW-7-2 and MW-7-3. However, the 7 day holding time for unpreserved groundwater samples was exceeded. NYSDEC requested that monitoring well MW-6-2 be resampled and a split sample be collected by NYSDEC for analysis by a laboratory of their choice (Test America in Buffalo, New York).

The laboratory report was provided in a letter report dated March 17, 2008.

April 2008

Monitoring well MW-6-2 was resampled on April 15, 2008. In addition to the sample collected by GZA, NYSDEC collected a split sample. GZA's sample was submitted to Free-Col for VOC TCL analysis. NYSDEC submitted their sample to Test America for VOC TCL analysis. The results from both analytical laboratories are summarized on the attached table (Free-Col sample is identified as Delphi and the Test America sample is identified as NYSDEC).

Free-Col Sample Results

TCE was detected above method detection limits at a concentration of 4 ppb in the sample from MW-6-2, which is below its respective Class GA groundwater criteria of 5 ppb. No other VOCs were detected above method detection limits at this sampling location.

Test America Sample Results

TCE was detected above method detection limits at a concentration of 4.2 ppb in the NYSDEC split sample from MW-6-2. No other VOCs were detected above method detection limits at this sampling location.

The laboratory report was provided in a letter report dated May 2, 2008.



Summer 2008

Groundwater monitoring well, MW-7-4 was installed as part of our additional downgradient groundwater condition assessment as requested by NYSDEC in their May 13, 2008 letter to Delphi. This 2-inch diameter bedrock monitoring well is located downgradient of MW-7-1 and south of MW-7-2. It was installed consistent with the methodologies used to install the other five downgradient wells as per our October 11, 2007 Work Plan².

In August 2008, downgradient groundwater samples were collected from MW-6-1, MW-6-2, MW-7-2 and MW-7-4. Low-flow sampling methodologies consistent with those outlined in the Operations, Monitoring & Maintenance Plan in the Site Management Plan dated August 2007 were followed. The four groundwater samples collected were submitted to Free-Col Laboratories for analytical testing for VOCs via EPA Method 8260 TCL. The analytical results are summarized on the attached table.

No VOCs were detected above method detection limits in the four downgradient wells sampled as part of the August 2008 sampling event. It does not appear that impacted groundwater is migrating from the Delphi facility.

Delphi also conducted a review of documents and files to determine a potential source of the TCE contamination that was detected in monitoring well MW-6-2, located downgradient of Building 6. According to Delphi records, TCE was not used within Building 6. Also, there does not appear to be subsurface utilities in the vicinity of MW-6-2 which are coming from Building 6 which could act as a potential preferential pathway.

The laboratory report was provided in a letter report dated October 1, 2008.

DOWNGRADIENT GROUNDWATER SAMPLING – NOVEMBER 2008

As part of NYSDEC's request in their May 13, 2008 letter to Delphi, four monitoring wells (MW-6-1, MW-6-2, MW-7-2 and MW-7-4) were resampled in November 2008 in conjunction with the monitored natural attenuation groundwater sampling associated with the TCE spill area.

Low-flow sampling methodologies consistent with previous sampling rounds were used. The four groundwater samples collected were submitted to Free-Col Laboratories for analytical testing for VOCs via EPA Method 8260 TCL. The attached table is a summary of the analytical results.

No VOCs were detected above method detection limits in the four downgradient wells sampled as part of the November 2008 sample round. This sample round completes the

² "Work Plan for Downgradient Monitoring Installation, Eastern portion of Delphi Lockport Facility, Lockport, New York" letter to Mr. Glenn May, NYSDEC, dated October 11, 2007.

NYSDEC required sampling of the downgradient locations. It does not appear that impacted groundwater is migrating from the Delphi facility and the sampling of the downgradient wells is no longer required.

The laboratory report for the November 2008 downgradient sampling event is included in Appendix B with the analytical data from the monitoring natural attenuation sampling from November 2008.



II. BUILDING 6 UST AREA

BACKGROUND

In 2006, Delphi completed a site-wide Current Conditions Summary and Field Investigation Report (Study) to identify areas of soil and/or groundwater contamination at the Lockport facility. The findings of the study included the identification of petroleum contamination in two wells (MW-6-F-1 and MW-6-F-5) located adjacent to the gasoline and diesel USTs at Building 6.

In 2008 Delphi completed a Focused Environmental Assessment (FEA) for the Building 6 UST Area to determine the extent of petroleum contamination. Three new monitoring wells (MW-6-F-7, MW-6-F-8 and MW-6-F-9) were installed in July 2008 and sampled in August 2008. No VOCs were detected in the new wells. Results of the FEA were reported to NYSDEC in a report dated October 1, 2008, revised January 13, 2009.

BUILDING 6 UST AREA GROUNDWATER SAMPLING – NOVEMBER 2008

The three monitoring wells were resampled in November 2008 in conjunction with the monitored natural attenuation groundwater sampling associated for the TCE spill area. The purpose of this sampling event was to confirm the results of the previous groundwater sampling in August 2008.

Low-flow sampling methodologies were used to collect groundwater samples that were submitted to Free-Col Laboratories for VOCs analysis via EPA Method 8260 TCL.

No VOCs were detected above method detection limits in two of the three monitoring wells (MW-6-F-8 and MW-6-F-9). One compound, cis-1,2-dichloroethylene (2 ppb), was detected at a concentration below its respective NYSDEC groundwater standard of 5 ppb in MW-6-F-7.

Based on the results of the August 2008 and November 2008 sampling events, no additional sampling of these wells is planned.

Please do not hesitate to contact the undersigned if you have any questions or require any additional information.

Sincerely,



GZA GEOENVIRONMENTAL

A handwritten signature in blue ink that reads "Christopher Boron".

Christopher Boron
Senior Project Manager

A handwritten signature in blue ink that reads "Ernest R. Hanna, P.E." followed by "Principal".

Ernest R. Hanna, P.E.
Principal

Attachments

Figure

Building 6 UST Area & Downgradient Monitoring
Well Locations

Table

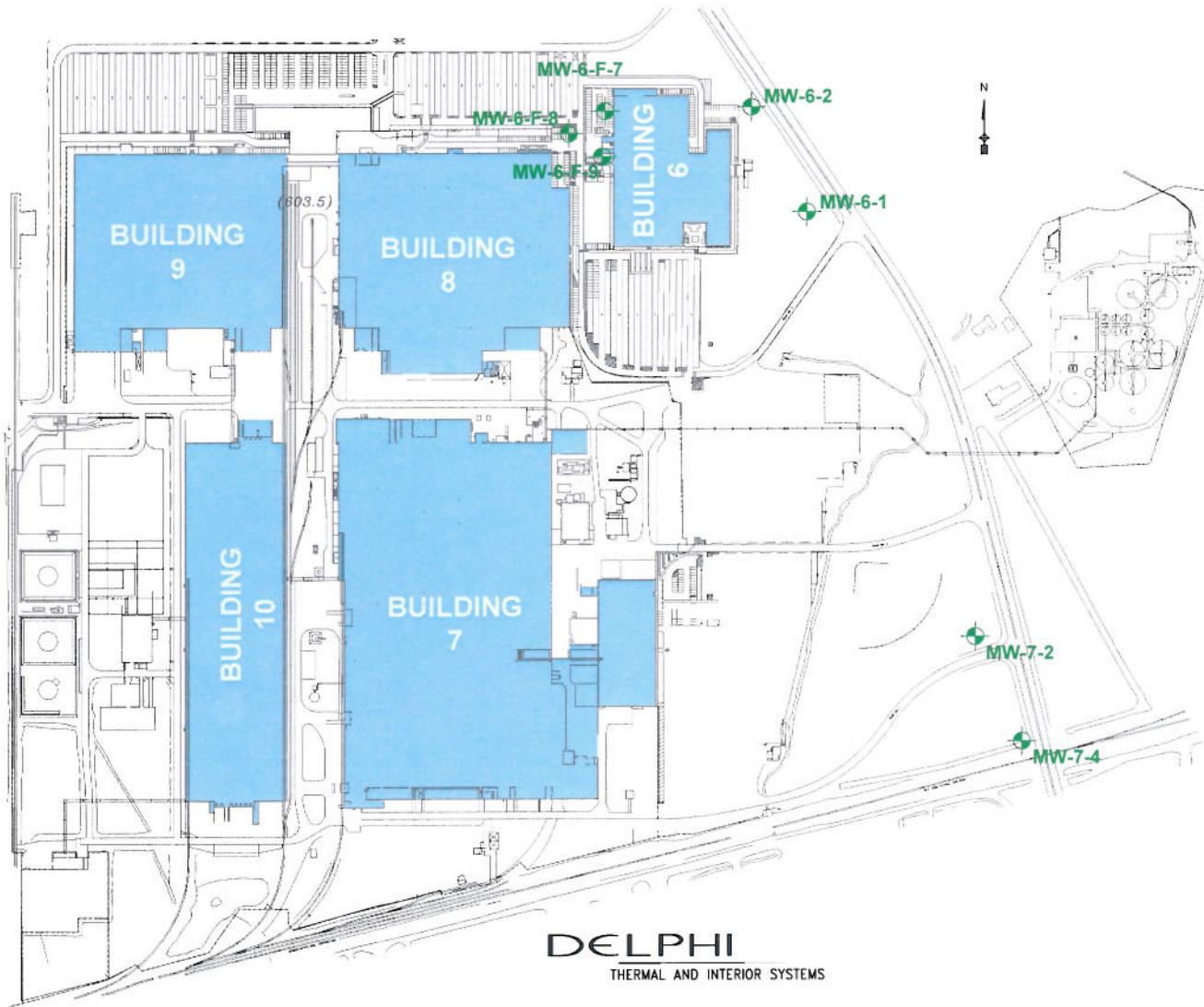
Groundwater Analytical Testing Results Summary
Table

Groundwater Analytical Testing Results Summary Table
 Additional Downgradient Groundwater Monitoring Wells
 Delphi Lockport Complex
 Lockport, New York

Location	Sample Date	Volatile Organic Compounds			
		Benzene	1,2-Dichloroethenes (total)	Trichloroethylene	Toluene
	NYSDEC Class GA Criteria	1	5	5	5
MW-6-1	November 2007				
	February 2008				
	August 2008				
	November 2008				
MW-6-2	November 2007			25	
	February 2008				
	April 2008 - Delphi			4	
	April 2008 - NYSDEC			4.2	
	August 2008				
	November 2008				
MW-7-1	November 2007	3	8	110	7
	February 2008			56	
MW-7-2	November 2007				
	February 2008				
	August 2008				
	November 2008				
MW-7-3	November 2007				
	February 2008				
MW-7-4	August 2008				
	November 2008				

Notes:

1. Compounds detected in one or more samples are presented on this table.
2. Analytical testing completed by Free-Col Laboratory except the NYSDEC April 2008 split sample which was tested by Test America. Samples were analyzed for volatile organic compounds (VOCs) via EPA Method 8260 Target Compound List (TCL), only.
3. NYSDEC Class GA criteria obtained from Division of Water Technical and Operational Guidance Series (TOGS 1.1.1), June 1998.
4. ug/L = part per billion (ppb).
5. Blank indicates compound was not detected.
6. **BOLD** values exceeding guidance criteria.



LEGEND:



APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS

NOTES:

1. BASE MAP ADAPTED FROM A DRAWING PROVIDED BY DELPHI THERMAL AND INTERIOR SYSTEMS SEPT. 2007.
2. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

DRAWN BY: MDK	DATE: APRIL 2009	GZA GeoEnvironmental of New York
DELPHI AUTOMOTIVE SYSTEMS DELPHI LOCKPORT FACILITY 200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK BUILDING 6 UST AREA DOWNGRADIENT WELL MONITORING WELL LOCATION PLAN	APPROXIMATE SCALE IN FEET 0 200 400 800	
PROJECT No. 21.00056192.10		
FIGURE No.		

APPENDIX B

FREE COL LABORATORIES ANALYTICAL REPORTS



FREE-COL LABORATORIES
11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@freecol.com

Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011833

8 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenman

Date Received 11/4/2008
Time Received: 16:15
Delivered By: Field Services

100 Lexington Ave.
Rochester NY 14606-2810

P.O. 460016825

Project Name: 21.0056192.10

Printed on 04/20/2009 at 12:54PM

Sample ID:	2008:0011833-1	Client's Sample ID:	MW-7-2
Date Sampled:	11/3/2008	Time Sampled:	13:00
		Date Received:	11/4/2008

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
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Organics

Chloromethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Bromomethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Vinyl Chloride	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Chloroethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Methylene chloride	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Acetone	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Carbon Disulfide	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Chloroform	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
2-Butanone	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
1,1,1-Trichloroethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Vinyl Acetate	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Bromodichloromethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Trichloroethene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Dibromochloromethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Benzene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Bromoform	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
2-Hexanone	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Tetrachloroethene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B



FREE-COL LABORATORIES
11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@freecol.com

Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011833

8 Sample(s) are included in this Delivery Group.

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Project Name: 21.0056192.10

Printed on 04/20/2009 at 12:54PM

Sample ID:	2008:0011833-1	Client's Sample ID:	MW-7-2				
Date Sampled:	11/3/2008	Time Sampled:	13:00	Date Received:	11/4/2008		
Analyte		Result	Units	Date Analyzed	Start Time	Analyst	Method Source

Organics (Continued)

Toluene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Chlorobenzene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Ethylbenzene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Styrene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
Xylenes (total)	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.0020	mg/L	11/12/08	19:02	Lindquist	SW-846 8260B

Sample ID:	2008:0011833-2	Client's Sample ID:	MW-6-1				
Date Sampled:	11/3/2008	Time Sampled:	15:00	Date Received:	11/4/2008		
Analyte		Result	Units	Date Analyzed	Start Time	Analyst	Method Source

Organics

Chloromethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Bromomethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Vinyl Chloride	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Chloroethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Methylene chloride	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Acetone	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Carbon Disulfide	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Chloroform	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
2-Butanone	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B



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Date Received:	11/4/2008					
Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source

Organics (Continued)

1,1,1-Trichloroethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Vinyl Acetate	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Bromodichloromethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Trichloroethylene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Dibromochloromethane	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
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2-Chloroethylvinylether	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Bromoform	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
2-Hexanone	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Tetrachloroethene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Toluene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Chlorobenzene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Ethylbenzene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Styrene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
Xylenes (total)	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.0020	mg/L	11/12/08	21:02	Lindquist	SW-846 8260B



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Project Name: 21.0056192.10

Printed on 04/20/2009 at 12:54PM

Sample ID:	2008:0011833-3	Client's Sample ID:	MW-6-2				
Date Sampled:	11/3/2008	Time Sampled:	17:00	Date Received:	11/4/2008	Analyst	Method Source
Analyte	Result	Units	Date Analyzed	Start Time			
Organics							

Chloromethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Bromomethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Vinyl Chloride	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Chloroethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Methylene chloride	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Acetone	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Carbon Disulfide	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Chloroform	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
2-Butanone	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
1,1,1-Trichloroethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Vinyl Acetate	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Bromodichloromethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Trichloroethene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Dibromochloromethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Benzene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Bromoform	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
2-Hexanone	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Tetrachloroethene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B



FREE-COL LABORATORIES
11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@freecol.com

Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011833

8 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine

Date Received 11/4/2008

Contact Name: Mr. Rick Eisenman

Time Received: 16:15

100 Lexington Ave.
Rochester NY 14606-2810

Delivered By: Field Services

P.O. 460016825

Project Name: 21.0056192.10

Printed on 04/20/2009 at 12:54PM

Sample ID:	2008:0011833-3	Client's Sample ID:	MW-6-2				
Date Sampled:	11/3/2008	Time Sampled:	17:00	Date Received: 11/4/2008			
Analyte		Result	Units	Date Analyzed	Start Time	Analyst	Method Source

Organics (Continued)

Toluene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Chlorobenzene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Ethylbenzene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Styrene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
Xylenes (total)	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.0020	mg/L	11/12/08	21:42	Lindquist	SW-846 8260B

Sample ID:	2008:0011833-4	Client's Sample ID:	MW-7-4				
Date Sampled:	11/3/2008	Time Sampled:	17:30	Date Received: 11/4/2008			
Analyte		Result	Units	Date Analyzed	Start Time	Analyst	Method Source

Organics

Chloromethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
Bromomethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
Vinyl Chloride	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
Chloroethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
Methylene chloride	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
Acetone	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
Carbon Disulfide	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
Chloroform	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B
2-Butanone	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846 8260B



FREE-COL LABORATORIES
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MEADVILLE, PENNSYLVANIA 16335
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EMAIL: service@freecol.com

Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011833

8 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine

Date Received 11/4/2008

Contact Name: Mr. Rick Eisenman

Time Received: 16:15

100 Lexington Ave.
Rochester NY 14606-2810

Delivered By: Field Services

P.O. 460016825

Project Name: 21.0056192.10

Printed on 04/20/2009 at 12:54PM

Sample ID: 2008:0011833-4

Client's Sample ID: MW-7-4

Date Sampled: 11/3/2008 **Time Sampled:** 17:30

Date Received: 11/4/2008

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method	Source
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Organics (Continued)

1,1,1-Trichloroethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Carbon Tetrachloride	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Vinyl Acetate	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Bromodichloromethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
1,1,2,2-Tetrachloroethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
1,2-Dichloropropane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
trans-1,3-Dichloropropene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Trichloroethylene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Dibromochloromethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
1,1,2-Trichloroethane	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Benzene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
cis-1,3-Dichloropropene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
2-Chloroethylvinylether	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Bromoform	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
2-Hexanone	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
4-Methyl-2-Pentanone (MIBK)	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Tetrachloroethene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Toluene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Chlorobenzene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Ethylbenzene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Styrene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
Xylenes (total)	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
cis-1,2-Dichloroethene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B
trans-1,2-Dichloroethene	<0.0020	mg/L	11/12/08	22:22	Lindquist	SW-846	8260B

**PARADIGM
ENVIRONMENTAL
SERVICES, INC.**

FREE COL LAB

CHAIN OF CUSTODY

REPORT TO:

52A

COMPANY: LAB PROJECT #:

119 Lake Avenue
Rochester, NY 14608
(585) 647-2530 • (800) 724-1997
FAX: (585) 647-3311

COMPANY:

ADDRESS:

CLIENT PROJECT #:

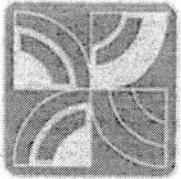
535 Washington St

STATE:

CITY:

ZIP:

ST:



FREE-COL LABORATORIES
11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@freecol.com

Accredited Lab ID#
Free-Col: 20-00073
Modem Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011918

6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenman

Date Received 11/6/2008
Time Received: 09:45
Delivered By: UPS

100 Lexington Ave.
Rochester NY 14606-2810

P.O. 460016825

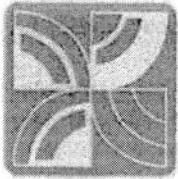
Project Name: Delphi 21.0056196.10

Printed on 11/26/2008 at 10:17AM

Sample ID:	2008:0011918-1	Client's Sample ID:	MW-6-F-9			
Date Sampled:	11/5/2008	Time Sampled:	09:30			
			Date Received:			
			11/6/2008			
Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source

Organics

Chloromethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Bromomethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Vinyl Chloride	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Chloroethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Methylene chloride	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Acetone	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Carbon Disulfide	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.0040	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Chloroform	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
2-Butanone	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
1,1,1-Trichloroethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Vinyl Acetate	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Bromodichloromethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Trichloroethene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Dibromochloromethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Benzene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.0040	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Bromoform	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
2-Hexanone	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Tetrachloroethene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B



FREE-COL LABORATORIES
11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@freecol.com

Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011918

6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenman

Date Received 11/6/2008
Time Received: 09:45
Delivered By: UPS

100 Lexington Ave.
Rochester NY 14606-2810

P.O. 460016825

Project Name: Delphi 21.0056196.10

Printed on 11/26/2008 at 10:17AM

Sample ID: 2008:0011918-1

Client's Sample ID: MW-6-F-9

Date Sampled: 11/5/2008 **Time Sampled:** 09:30

Date Received: 11/6/2008

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
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Organics (Continued)

Toluene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Chlorobenzene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Ethylbenzene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Styrene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
Xylenes (total)	<0.0060	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.0020	mg/L	11/13/08	16:48	Lindquist	SW-846 8260B

Sample ID: 2008:0011918-2

Client's Sample ID: MW-6-F-8

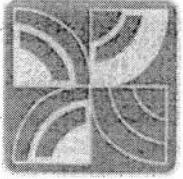
Date Sampled: 11/5/2008 **Time Sampled:** 12:30

Date Received: 11/6/2008

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
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Organics

Chloromethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Bromomethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Vinyl Chloride	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Chloroethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Methylene chloride	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Acetone	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Carbon Disulfide	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.0040	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Chloroform	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
2-Butanone	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B



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Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011918

6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine

Date Received 11/6/2008

Contact Name: Mr. Rick Eisenman

Time Received: 09:45

100 Lexington Ave.
Rochester NY 14606-2810

Delivered By: UPS

P.O. 460016825

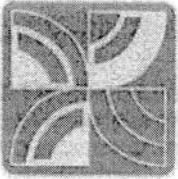
Project Name: Delphi 21.0056196.10

Printed on 11/26/2008 at 10:17AM

Sample ID:	2008:0011918-2	Client's Sample ID:	MW-6-F-8			
Date Sampled:	11/5/2008	Time Sampled:	12:30	Date Received:	11/6/2008	
Analyte		Result	Units	Date Analyzed	Start Time	Analyst

Organics (Continued)

1,1,1-Trichloroethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Vinyl Acetate	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Bromodichloromethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Trichloroethylene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Dibromochloromethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Benzene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.0040	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Bromoform	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
2-Hexanone	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Tetrachloroethylene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Toluene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Chlorobenzene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Ethylbenzene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Styrene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
Xylenes (total)	<0.0060	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.0020	mg/L	11/13/08	17:28	Lindquist	SW-846 8260B



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Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011918

6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine
Contact Name: Mr. Rick Eisenman

Date Received 11/6/2008
Time Received: 09:45
Delivered By: UPS

100 Lexington Ave.
Rochester NY 14606-2810

P.O. 460016825

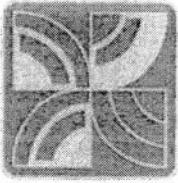
Project Name: Delphi 21.0056196.10

Printed on 11/26/2008 at 10:17AM

Sample ID:	2008:0011918-3	Client's Sample ID:	MW-6-F-7			
Date Sampled:	11/5/2008	Time Sampled:	13:00			
			Date Received:			
			11/6/2008			
Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source

Organics

Chloromethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Bromomethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Vinyl Chloride	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Chloroethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Methylene chloride	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Acetone	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Carbon Disulfide	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	0.0024	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Chloroform	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
2-Butanone	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
1,1,1-Trichloroethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Vinyl Acetate	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Bromodichloromethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Trichloroethene	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Dibromochloromethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Benzene	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.0040	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Bromoform	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
2-Hexanone	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
Tetrachloroethene	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B



FREE-COL LABORATORIES
11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@freecol.com

Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011918

6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine

Date Received 11/ 6/2008

Contact Name: Mr. Rick Eisenman

Time Received: 09:45

100 Lexington Ave.
Rochester NY 14606-2810

Delivered By: UPS

P.O. 460016825

Project Name: Delphi 21.0056196.10

Printed on 11/26/2008 at 10:17AM

Sample ID: 2008:0011918-3

Client's Sample ID: MW-6-F-7

Date Sampled: 11/ 5/2008 **Time Sampled:** 13:00

Date Received: 11/ 6/2008

Analyte

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
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Organics (Continued)

Toluene
Chlorobenzene
Ethylbenzene
Styrene
Xylenes (total)
cis-1,2-Dichloroethene
trans-1,2-Dichloroethene

	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
	<0.0060	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	0.0024	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.0020	mg/L	11/13/08	18:08	Lindquist	SW-846 8260B

Sample ID: 2008:0011918-4

Client's Sample ID: MW-Split

Date Sampled: 11/ 4/2008 **Time Sampled:** 15:00

Date Received: 11/ 6/2008

Analyte

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
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Prep Group

Prep: 3005A Met Total Rec

11/13/08 18:45 Kozakovsky SW-846 3005A

Organics

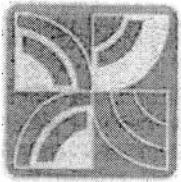
cis-1,2-Dichloroethylene
trans-1,2-Dichloroethylene
Methane
Tetrachloroethylene
Trichloroethylene
Vinyl chloride

	0.0078	mg/L	11/13/08	18:48	Lindquist	SW-846 8260B
	<0.0020	mg/L	11/13/08	18:48	Lindquist	SW-846 8260B
Methane	0.14	mg/L	11/14/08	07:53	Williams	In House
	<0.0020	mg/L	11/13/08	18:48	Lindquist	SW-846 8260B
	<0.0020	mg/L	11/13/08	18:48	Lindquist	SW-846 8260B
Vinyl chloride	0.0033	mg/L	11/13/08	18:48	Lindquist	SW-846 8260B

Metals

Calcium (Ca)
Iron (Fe)
Magnesium (Mg)
Manganese (Mn)

	320	mg/L	11/14/08	20:47	Kozakovsky	SW-846 6010B
	0.39	mg/L	11/14/08	20:47	Kozakovsky	SW-846 6010B
	138	mg/L	11/14/08	20:47	Kozakovsky	SW-846 6010B
Manganese (Mn)	0.28	mg/L	11/14/08	20:47	Kozakovsky	SW-846 6010B



FREE-COL LABORATORIES
11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814) 724-6242
FAX: (814) 333-1466
EMAIL: service@freecol.com

Accredited Lab ID#
Free-Col: 20-00073
Modern Erie: 25-03459

Certificate Of Analysis

Delivery Group ID: 2008:0011918

6 Sample(s) are included in this Delivery Group.

Company Name: Delphi Energy & Engine

Date Received 11/6/2008

Contact Name: Mr. Rick Eisenman

Time Received: 09:45

100 Lexington Ave.
Rochester NY 14606-2810

Delivered By: UPS

P.O. 460016825

Project Name: Delphi 21.0056196.10

Printed on 11/26/2008 at 10:17AM

Sample ID:	2008:0011918-4	Client's Sample ID:	MW-Split
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Date Sampled: 11/4/2008 Time Sampled: 15:00 Date Received: 11/6/2008

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
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Metals (Continued)

Potassium (K)	13.5	mg/L	11/14/08	20:47	Kozakovsky	SW-846 6010B
Sodium (Na)	1010	mg/L	11/14/08	20:47	Kozakovsky	SW-846 6010B

General Chemistry

Alkalinity (as CaCO ₃)	340	mg/L	11/10/08	15:30	Bleicher	SM 2320 B
Total Organic Carbon	2.4	mg/L	11/10/08	21:32	Lindquist	SW-846 9060
Chloride	2100	mg/L	11/11/08	09:00	Parker	EPA 325.3
Nitrogen, Ammonia	0.39	mg/L	11/14/08	06:00	Semroc	EPA 350.2
Nitrogen, Nitrate	<0.05	mg/L	11/10/08	16:30	Bleicher	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	11/06/08	13:40	Macko	EPA 353.2
Sulfate	80	mg/L	11/11/08	11:00	Semroc	SW-846 9038
Sulfide, Direct	<0.1	mg/L	11/07/08	12:15	Bleicher	EPA 376.1

Metal analyses were performed by Modern Industries Inc., Erie, PA.

Sample ID:	2008:0011918-5	Client's Sample ID:	MW-7
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Date Sampled: 11/5/2008 Time Sampled: 08:00 Date Received: 11/6/2008

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
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Prep Group

Prep: 3005A Met Total Rec			11/13/08	18:45	Kozakovsky	SW-846 3005A
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Organics

cis-1,2-Dichloroethylene	70	mg/L	11/18/08	18:46	Lindquist	SW-846 8260B
trans-1,2-Dichloroethylene	<0.20	mg/L	11/18/08	18:46	Lindquist	SW-846 8260B
Methane	0.11	mg/L	11/14/08	07:53	Williams	In House
Tetrachloroethylene	<0.2	mg/L	11/18/08	18:46	Lindquist	SW-846 8260B
Trichloroethylene	1.1	mg/L	11/18/08	18:46	Lindquist	SW-846 8260B
Vinyl chloride	2.6	mg/L	11/18/08	18:46	Lindquist	SW-846 8260B

CHAIN OF CUSTODY RECORD

1 CLIENT INFORMATION		2 SAMPLE IDENTIFICATION FOR FREE-COL USE ONLY		3 REPORTING INFORMATION	
COMPANY <i>2A</i>	CHECK ALL THAT APPLY NORMAL RUSH (SPECIFY) QA/QC	SAMPLE TYPE WASTEWATER: FREQUENCY MONITORING WELLS LOCATION: ENTRY POINT #:	4 DRINKING WATER COMPLIANCE PROVIDE THE FOLLOWING: DRINKING WATER: PWSID #: WEBSITE: www.modermind.com	5 DATE RECEIVED 11/5/08	6 DATE UNQUALISHED 11/5/08
CONTACT <i>Chris Boston</i> ADDRESS <i>535 Washington St</i> CITY <i>Bethel Park</i> STATE <i>PA</i> PHONE <i>(724) 2300-2300</i> E-MAIL <i>christopher.boston@q2.com</i> PURCHASE ORDER NUMBER	7 ZIP CODE <i>14202</i>	8 DUE DATE <i>11/25/08</i>	9 E-MAIL DATA <i>6235-3629</i>	10 OTHER: NON-COMPLIANCE COMPLIANCE FREQUENCY	11 SAMPLER'S NAME / DATE <i>Delphi 21.0056192.08</i>
5 SAMPLE INFORMATION		6 GRAVY		7 ANALYSIS REQUESTED/COMMENTS (IF COMPOSITE, PLEASE USE INCLUSIVE DATES AND TIMES)	
DATE <i>11/4/08</i>	TIME <i>15:00</i>	SAMPLE IDENTIFICATION <i>MW - SPLIT</i>	FREE-COL ID <i>RESULTS</i>	8 ANALYSIS REQUESTED/COMMENTS (IF COMPOSITE, PLEASE USE INCLUSIVE DATES AND TIMES)	
1 <i>11/5/08</i>	2 <i>8:00</i>	3 <i>11/5/08</i>	4 <i>11/18:1</i>	5 <i>see note</i>	6 <i>see note</i>
5 <i>11/5/08</i>	6 <i>12:30</i>	7 <i>11/5/08</i>	8 <i>12:30</i>	9 <i>VOC-TCL</i>	10 <i>VOC-TCL</i>
5 <i>11/5/08</i>	6 <i>13:00</i>	7 <i>11/5/08</i>	8 <i>13:00</i>	9 <i>VOC-TCL</i>	10 <i>see note</i>
6 <i>11/5/08</i>	7 <i>14:00</i>	8 <i>11/5/08</i>	9 <i>14:00</i>	10 <i>MW-SPLIT MW-7 + MW-13</i>	11 <i>Also get analysis of VOCs</i>
7					<i>for following compounds:</i>
8					<i>tetrachloroethylene</i>
9					<i>trichloroethylene</i>
10					<i>cis 1,2-dichloroethylene</i>
11					<i>trans 1,2-dichloroethylene</i>
12					<i>Vinyl chloride</i>
13					<i>Vinyl chloro-ethylene</i>
14					<i>Magnesium</i>
15					<i>Manganese</i>
					<i>Potassium</i>
					<i>Sodium</i>
					<i>Calcium</i>
6 SAMPLE TRACEABILITY					
Date Received <i>11/5/08</i>	Signature <i>John T. Boston</i>	Organization <i>Free Col Laboratories</i>	Date Unqualified <i>11/5/08</i>	Time <i>11:50 AM</i>	Refrigerated upon receipt? <i>NO</i>
1 <i>11/6/08</i>	<i>John T. Boston</i>	<i>Free Col Laboratories</i>	<i>11/5/08</i>	<i>11:45 AM</i>	<i>YES</i>
2 <i>11/6/08</i>	<i>John T. Boston</i>	<i>Free Col Laboratories</i>	<i>11/6/08</i>	<i>11:45 AM</i>	<i>NO</i>
3 <i>11/6/08</i>	<i>John T. Boston</i>	<i>Free Col Laboratories</i>	<i>11/6/08</i>	<i>11:45 AM</i>	<i>Completed</i>
4 <i>11/6/08</i>	<i>John T. Boston</i>	<i>Free Col Laboratories</i>	<i>11/6/08</i>	<i>11:45 AM</i>	<i>Date Run</i>
5					
6					Reviewed by _____ Date _____
7					Worksheet Number _____

2008 11/5/08 11:50 AM



APPENDIX C

MONITORING WELL OBSERVATION &
GROUNDWATER SAMPLING LOGS

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-1
 Date: 11/3/2008 Time In: 13:30
 Sampling Personnel: J. Davide Time Out: 15:15
 Weather Conditions: Cloudy 55F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 5.03
 Length of Water Column: 13.82
 Depth of Well (from Log): 18.85
 Length of Time Pumping: 1 hour 11 min
 Total Volume Removed: 4.5 gallons
 Well Purge Pumping Rate:
 Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

PARAMETER STABILITY		SAMPLING INFORMATION
pH	+/- 0.1	Sample ID: MW-6-1
Conductivity	+/- 3%	Sample Time: 15:00
Tempurature	+/- 10%	# of Sample C 3
Turbidity	+/- 10%	Duplicate Sam No
ORP	+/- 10 mV	Sample Analy: VOC-TCL
DO	+/- 10%	

Reading: 1 2 3 4 5 6
 Time: 13:54 14:02 14:09 14:20 14:36 14:54

Cumulative Volume Purged	NOTES					
	0 gals	.5 gals	1 gals	1.5 gals	2.5 gals	3.5 gals
Depth to Water	5.03	6.35	6.35	6.41	6.53	6.58
pH	6.78	6.77	6.77	6.76	6.75	6.74
Conductance (mS/cm)	4.076	4.107	4.11	4.132	4.176	4.183
Turbidity (NTUs)	51.1	6.9	17	13.2	4.3	1
Tempurature (°C)	14.12	14.27	14.22	14.23	14.12	14.07
DO (mg/L)	-11.76	0.85	0.69	1.35	3.2	3.81
ORP (mV)	-52.9	-61.6	-60.4	-52.3	-25.4	-21.1

Water Quality Meter: YSI 6820 MP Sonde 2.85"

Peristaltic Pump: GeoPump

Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-1
 Date: 11/3/2008 Time In: 13:30
 Sampling Personnel: J. Davide Time Out: 15:15
 Weather Conditions: Cloudy 55F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 5.03
 Length of Water Column: 13.82
 Depth of Well (from Log): 18.85
 Length of Time Pumping: 1 hour 11 min
 Total Volume Removed: 4.5 gallons
 Well Purge Pumping Rate:
 Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

PARAMETER STABILITY		SAMPLING INFORMATION
pH	+/- 0.1	Sample ID: MW-6-1
Conductivity	+/- 3%	Sample Time: 15:00
Tempurature	+/- 10%	# of Sample C 3
Turbidity	+/- 10%	Duplicate Sam No
ORP	+/- 10 mV	Sample Analy: VOC-TCL
DO	+/- 10%	

Reading: 7
 Time: 15:05

Cumulative Volume Purged		4.5 gals	NOTES
Depth to Water	6.62		
pH	6.74		
Conductance (mS/cm)	4.183		
Turbidity (NTUs)	-0.8		
Tempurature (°C)	14.07		
DO (mg/L)	3.94		
ORP (mV)	-23.5		

Water Quality Meter: YSI 6820 MP Sonde 2.85"
 Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-2
 Date: 11/3/2008 Time in: 15:30
 Sampling Personnel: J. Davide Time Out: 17:10
 Weather Conditions: Cloudy 55F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 5.61
 Length of Water Column: 20.06
 Depth of Well (from Log): 26.21
 Length of Time Pumping: 1 hour 23 min
 Total Volume Removed: 4.5 gallons
 Well Purge Pumping Rate:

PARAMETER STABILITY		SAMPLING INFORMATION
pH	+/- 0.1	Sample ID: MW-6-2
Conductivity	+/- 3%	Sample Time: 17:00
Tempurature	+/- 10%	# of Sample C 15
Turbidity	+/- 10%	Duplicate Sam No
ORP	+/- 10 mV	Sample Analy: Natural Attenuation
DO	+/- 10%	

Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

Reading:	1	2	3	4	5	6
Time:	15:37	15:54	16:05	16:06	16:31	16:46

Cumulative Volume Purged	NOTES					
	0 gals	1 gals	1.5 gals	2 gals	3 gals	4 gals
Depth to Water	5.61	6.18	6.2	6.2	6.21	6.21
pH	6.77	6.81	6.83	6.84	6.84	6.85
Conductance (mS/cm)	6.404	6.234	6.096	6.011	5.971	5.943
Turbidity (NTUs)	2.6	-2.8	-3.9	-4.6	-4.4	-4.7
Tempurature (°C)	13.8	13.69	13.61	13.56	13.41	13.4
DO (mg/L)	1.53	0.21	0.02	0.2	1.16	1.08
ORP (mV)	48.9	33.8	32.5	34.6	37.1	41.3

Water Quality Meter: YSI 6820 MP Sonde 2.85"
 Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-2
 Date: 11/3/2008 Time in: 15:30
 Sampling Personnel: J. Davide Time Out: 17:10
 Weather Conditions: Cloudy 55F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 5.61
 Length of Water Column: 20.06
 Depth of Well (from Log): 26.21
 Length of Time Pumping: 1 hour 23 min
 Total Volume Removed: 4.5 gallons
 Well Purge Pumping Rate:
 Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

PARAMETER STABILITY		SAMPLING INFORMATION
pH	+/- 0.1	Sample ID: MW-6-2
Conductivity	+/- 3%	Sample Time: 17:00
Tempurature	+/- 10%	# of Sample C 15
Turbidity	+/- 10%	Duplicate Sam No
ORP	+/- 10 mV	Sample Analy: Natural Attenuation
DO	+/- 10%	

Reading: 7
 Time: 17:00

Cumulative Volume Purged		4.5 gals	NOTES
Depth to Water	6.21		
pH	6.86		
Conductance (mS/cm)	5.93		
Turbidity (NTUs)	-4.9		
Tempurature (°C)	13.38		
DO (mg/L)	0.93		
ORP (mV)	45		

Water Quality Meter: YSI 6820 MP Sonde 2.85"
 Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-7-2
 Date: 11/3/2008 Time in: 10:10
 Sampling Personnel: J. Davide Time Out: 13:50
 Weather Conditions: Cloudy 55F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 7.23
 Length of Water Column: 14.47
 Depth of Well (from Log): 21.7
 Length of Time Pumping: 3 hour 25 min
 Total Volume Removed: 6.5 gallons
 Well Purge Pumping Rate:

PARAMETER STABILITY	
pH	+/- 0.1
Conductivity	+/- 3%
Tempurature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10 mV
DO	+/- 10%

SAMPLING INFORMATION	
Sample ID:	MW-7-2
Sample Time:	13:00
# of Sample C	3
Duplicate Sam	No
Sample Analy:	VOC-TCL

Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

Reading: 1 2 3 4 5 6
 Time: 10:25 10:40 10:49 11:05 11:23 12:05

Cumulative Volume Purged	NOTES					
	0 gals	0.5 gals	1 gals	1.25 gals	2 gals	3 gals
Depth to Water	7.23	11.22	12.12	13	14.3	15.82
pH	7.18	7.14	7.13	7.14	7.22	7.15
Conductance (mS/cm)	2.852	2.751	2.571	2.137	1.759	1.975
Turbidity (NTUs)	-0.9	-2	-3.5	-2.2	-2.3	2.3
Tempurature (°C)	13.72	13.57	13.6	13.48	13.39	13.51
DO (mg/L)	3.41	0.86	0.84	1.02	2.96	2.11
ORP (mV)	2.7	-8.7	-11.1	-1.3	19.1	28.2

Water Quality Meter: YSI 6820 MP Sonde 2.85"
 Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-7-2
 Date: 11/3/2008 Time in: 10:10
 Sampling Personnel: J. Davide Time Out: 13:50
 Weather Conditions: Cloudy 55F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 7.23
 Length of Water Column: 14.47
 Depth of Well (from Log): 21.7
 Length of Time Pumping: 3 hour 25 min
 Total Volume Removed: 6.5 gallons
 Well Purge Pumping Rate:

PARAMETER STABILITY		SAMPLING INFORMATION
pH	+/- 0.1	Sample ID: MW-7-2
Conductivity	+/- 3%	Sample Time: 13:00
Tempurature	+/- 10%	# of Sample C 3
Turbidity	+/- 10%	Duplicate Sam No
ORP	+/- 10 mV	Sample Analy: VOC-TCL
DO	+/- 10%	

Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

Reading: 7 8 9
 Time: 13:00 13:28 13:50

Cumulative Volume Purged	NOTES		
	.5 gals	5.5 gals	6.5 gals
Depth to Water	16.31	17.68	19
pH	7.12	7.13	7.16
Conductance (mS/cm)	2.45	2.347	2.261
Turbidity (NTUs)	7.2	4.7	6.1
Tempurature (°C)	13.66	13.69	13.7
DO (mg/L)	1.16	1.79	2.03
ORP (mV)	5.9	7.9	11.1

Water Quality Meter: YSI 6820 MP Sonde 2.85"
 Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-7-4
 Date: 11/3/2008 Time in: 9:00
 Sampling Personnel: J. Davide Time Out: 9:40
 Weather Conditions: Cloudy 55F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 12.15
 Length of Water Column: 6.85
 Depth of Well (from Log): 19
 Length of Time Pumping: 35 min
 Total Volume Removed: 2 gallons
 Well Purge Pumping Rate:

PARAMETER STABILITY		SAMPLING INFORMATION
pH	+/- 0.1	Sample ID: MW-7-2
Conductivity	+/- 3%	Sample Time: 17:30
Tempurature	+/- 10%	# of Sample C 3
Turbidity	+/- 10%	Duplicate Sam No
ORP	+/- 10 mV	Sample Analy: VOC-TCL
DO	+/- 10%	

Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: Yes

Reading:	1	2	3	4	5	
Time:	9:05	9:16	9:28	9:40	17:25	

Cumulative Volume Purged	NOTES				
	0 gals	1 gals	1.5 gals	2 gals	Recharge
Depth to Water	12.15	17.23	18.83	21.5	17.4
pH	7.02	7.05	7	7.01	
Conductance (mS/cm)	4.072	4.002	3.944	3.997	
Turbidity (NTUs)	206.3	9.9	4.1	-2.2	
Tempurature (°C)	14.1	14.17	14.07	14.01	
DO (mg/L)	38.1	2.5	1.72	1.37	
ORP (mV)	-23.9	47.9	70.6	22.1	

Water Quality Meter: YSI 6820 MP Sonde 2.85"

Peristaltic Pump: GeoPump

Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-F-7
 Date: 11/5/2008 Time in: 10:10
 Sampling Personnel: J. Davide Time Out: 10:55
 Weather Conditions: Sunny 65F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 25 ppm

WELL WATER INFORMATION

Depth of Water: 5.12
 Length of Water Column: 14.47
 Depth of Well (from Log): 11.18
 Length of Time Pumping: 16.3
 Total Volume Removed: 5 gallons
 Well Purge Pumping Rate:
 Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: Yes

PARAMETER STABILITY		SAMPLING INFORMATION	
pH	+/- 0.1	Sample ID:	MW-6-F-7
Conductivity	+/- 3%	Sample Time:	13:00
Tempurature	+/- 10%	# of Sample C	3
Turbidity	+/- 10%	Duplicate Sarr	No
ORP	+/- 10 mV	Sample Analy:	VOC-TCL
DO	+/- 10%		

Reading:	1	2	3	4	5	6
Time:	10:15	10:23	10:30	10:30	10:41	10:46

Cumulative Volume Purged	0 gals	0.5 gals	1 gals	2 gals	3 gals	4 gals	NOTES
	6.5	8.2	9	9.75	10.81	12.63	
Depth to Water	7.11	7.08	7.07	7.05	7.01	7.01	
	7.395	7.277	6.651	6612	7.528	7.861	
Turbidity (NTUs)	16.1	10.2	4.4	8	31.1	120.1	
	17.12	17.25	17.08	17.15	1715	17.22	
DO (mg/L)	-0.8	-0.29	-0.16	-0.13	0.1	0.27	
	-120.9	-110.9	-103.7	-101.2	-97.6	-101.6	
ORP (mV)							

Water Quality Meter: YSI 6820 MP Sonde 2.85"
 Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-F-7
 Date: 11/5/2008 Time in: 10:10
 Sampling Personnel: J. Davide Time Out: 10:55
 Weather Conditions: Sunny 65F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 25 ppm

WELL WATER INFORMATION

Depth of Water: 5.12
 Length of Water Column: 14.47
 Depth of Well (from Log): 11.18
 Length of Time Pumping: 16.3
 Total Volume Removed: 5 gallons
 Well Purge Pumping Rate:
 Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: Yes

PARAMETER STABILITY		SAMPLING INFORMATION
pH	+/- 0.1	Sample ID: MW-6-F-7
Conductivity	+/- 3%	Sample Time: 13:00
Tempurature	+/- 10%	# of Sample C 3
Turbidity	+/- 10%	Duplicate Sam No
ORP	+/- 10 mV	Sample Analy: VOC-TCL
DO	+/- 10%	

Reading: 7 8
 Time: 10:51 12:25

Cumulative Volume Purged	5 gals	Recharge	NOTES
Depth to Water	14.67	5.28	
pH	6.99		
Conductance (mS/cm)	7.748		
Turbidity (NTUs)	473.8		
Tempurature (°C)	17.22		
DO (mg/L)	-0.83		
ORP (mV)	-102.3		

Water Quality Meter: YSI 6820 MP Sonde 2.85"

Peristaltic Pump: GeoPump

Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-F-8
 Date: 11/5/2008 Time in: 11:10
 Sampling Personnel: J. Davide Time Out: 12:40
 Weather Conditions: Sunny 65F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 4 ppm

WELL WATER INFORMATION

Depth of Water: 3.31
 Length of Water Column: 12.1
 Depth of Well (from Log): 15.4
 Length of Time Pumping: 1 hour
 Total Volume Removed: 3 gallons
 Well Purge Pumping Rate:

PARAMETER STABILITY	
pH	+/- 0.1
Conductivity	+/- 3%
Tempurature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10 mV
DO	+/- 10%

SAMPLING INFORMATION	
Sample ID:	MW-6-F-8
Sample Time:	12:30
# of Sample C	3
Duplicate Sam	No
Sample Analy:	VOC-TCL

Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

Reading: 1 2 3 4 5 6
 Time: 11:18 11:28 11:37 11:56 12:07 12:19

Cumulative Volume Purged	0 gals	.5 gals	1 gals	2 gals	2.5 gals	3 gals	NOTES
Depth to Water	3.63	3.64	3.62	3.61	3.64	3.63	
pH	6.48	6.47	6.43	6.4	6.43	6.45	
Conductance (mS/cm)	11.81	10.45	9.505	10.22	10.43	10.48	
Turbidity (NTUs)	37.5	48	19.1	7.2	2.5	2.4	
Tempurature (°C)	17.13	17.33	17.05	16.74	16.72	16.77	
DO (mg/L)	-3.79	-1.26	-0.48	-0.27	-0.14	-0.07	
ORP (mV)	6.9	14.5	25.6	38.9	36.7	33.3	

Water Quality Meter: YSI 6820 MP Sonde 2.85"

Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-F-9
 Date: 11/5/2008 Time in: 8:40
 Sampling Personnel: J. Davide Time Out: 10:00
 Weather Conditions: Sunny 65F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 4.52
 Length of Water Column: 9.98
 Depth of Well (from Log): 14.5
 Length of Time Pumping: 1 hour 5min
 Total Volume Removed: 3 gallons
 Well Purge Pumping Rate:
 Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

PARAMETER STABILITY

pH	+/- 0.1
Conductivity	+/- 3%
Tempurature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10 mV
DO	+/- 10%

SAMPLING INFORMATION

Sample ID: MW-6-F-9
 Sample Time: 9:30
 # of Sample C 3
 Duplicate Sam No
 Sample Analy: VOC-TCL

Reading: 1 2 3 4 5 6
 Time: 8:55 0:04 9:15 9:26 9:39 9:50

Cumulative Volume Purged 0 gals .5 gals 1 gals 1.5 gals 2 gals 2.5 gals NOTES

Depth to Water	5.9	5.72	5.75	5.8	5.79	5.8
pH	6.93	6.93	6.9	6.91	6.9	6.89
Conductance (mS/cm)	9.688	9.71	9.749	9.972	10.23	10.55
Turbidity (NTUs)	70.3	54.8	47.2	31.4	13.9	9.8
Tempurature (°C)	16.95	16.6	16.84	17.19	17.37	17.45
DO (mg/L)	-1.44	-1.04	-1.11	-0.69	-0.72	-0.54
ORP (mV)	-162.9	-185	-196.9	-227	-231.3	-211.7

Water Quality Meter: YSI 6820 MP Sonde 2.85"

Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems

MONITORING WELL OBSERVATIONS & GROUNDWATER SAMPLING LOG

Site: Delphi Thermal Systems Well ID: MW-6-F-9
 Date: 11/5/2008 Time in: 8:40
 Sampling Personnel: J. Davide Time Out: 10:00
 Weather Conditions: Sunny 65F

WELL CONDITION

Well Locked: Yes
 J-Plug Intacked: Yes
 Does well appear to be functioning properly: Yes
 Condition of Surface Seal: Good
 Condition of Riser Pipe: Good
 PID Rerading at Top of Well: 0 ppm

WELL WATER INFORMATION

Depth of Water: 4.52
 Length of Water Column: 9.98
 Depth of Well (from Log): 14.5
 Length of Time Pumping: 1 hour 5min
 Total Volume Removed: 3 gallons
 Well Purge Pumping Rate:
 Sheen Observed: No
 DNAPL Observed: No
 Did Well Go Dry: No

PARAMETER STABILITY

pH	+/- 0.1
Conductivity	+/- 3%
Tempurature	+/- 10%
Turbidity	+/- 10%
ORP	+/- 10 mV
DO	+/- 10%

SAMPLING INFORMATION

Sample ID: MW-6-F-9
 Sample Time: 9:30
 # of Sample C 3
 Duplicate Sam No
 Sample Analy: VOC-TCL

Reading: 7
 Time: 10:00

Cumulative Volume Purged		3 gals	NOTES			
Depth to Water	5.81					
pH	6.88					
Conductance (mS/cm)	10.61					
Turbidity (NTUs)	7.5					
Tempurature (°C)	17.59					
DO (mg/L)	-0.48					
ORP (mV)	-221.3					

Water Quality Meter: YSI 6820 MP Sonde 2.85"

Peristaltic Pump: GeoPump
 Tubing Type: Polyethylene tubing

Miscellaneous Observations/Notes/Problems