

October 1, 2008
File No. 21.0056340.0

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



Re: Additional Downgradient Well Installation &
August 2008 Groundwater Sampling
Delphi Thermal Systems Facility
Lockport, New York

Dear Mr. Eisenman:

GZA GeoEnvironmental of New York (GZA) prepared this letter report to summarize the work completed as part of the additional downgradient groundwater condition assessment at the above referenced Site. This work involved the installation of an additional monitoring well (MW-7-4) and collecting groundwater samples from downgradient wells MW-6-1, MW-6-2, MW-7-2 and MW-7-4.

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 five newly installed 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. 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.

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 at locations not previously investigated in the eastern portion of the Site. In November 2007, the five downgradient bedrock monitoring wells identified above were installed as shown on Figure 1. These wells were sampled in December 2007. At the request of NYSDEC, select downgradient wells were sampled again in February and April 2008.

Due to TCE detected in monitoring well MW-7-1, NYSDEC requested in a letter to Delphi dated May 13, 2008 that an additional bedrock monitoring well (designated as MW-7-4 on Figure 1) be installed along the eastern property line south of MW-7-2.

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11th Floor
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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. Table 1 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 Table 1).

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

February 2008

Due to the VOCs detected in two of the monitoring wells, GZA resampled the five monitoring wells in February 2008. The results are summarized on Table 1. 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 analytical data was provided in a letter report dated March 17, 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 Conservation, dated October 1993, revised 1998, ERRATA Sheet dated January 1999; and Addendum dated April 2000.



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 Table 1 (Free-Col sample is identified as Delphi and the Test America sample is identified as NYSDEC).



Low-flow sampling methodologies were used to purge and collect the groundwater samples, consistent with previous sample rounds. Water quality readings were collected and approximately 1.5 well volumes were purged after a constant head was established. A total volume of approximately 8 gallons was purged prior to sample collection.

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 analytical data was provided in a letter report dated May 2, 2008.

ADDITIONAL WELL INSTALLATION & AUGUST 2008 SAMPLING EVENT

One groundwater monitoring well (MW-7-4, see Figure 1) was installed as part of our additional downgradient groundwater condition assessment. Earth Dimensions, Inc. installed the monitoring well between July 21 and 23, 2008. The 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. The boring/well installation log is included as Attachment 2.

HEADSPACE SCREENING PROCEDURE

The headspace present above the soil samples collected in sample baggies from test boring MW-7-4 were screened for total organic vapors using an organic vapor meter (OVM). The OVM, a HNu PI-101, was calibrated in accordance with manufacturer's recommendations using a gas standard of isobutylene at a concentration of 100 ppm. GZA screened a clean, unused plastic bag prior to the start of the headspace screening to establish background concentrations, which were non-detect.

The air in the top of the baggie was screened by placing the tip of the OVM probe into 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.

baggie. OVM readings from the headspace screening of the boring samples were non-detect. Headspace results were recorded on the boring/well log included as Attachment 2.

MONITORING WELL DEVELOPMENT, MEASUREMENT & HYDRAULIC CONDUCTIVITY TESTING



On August 6, 2008, a disposable polyethylene bailer was used to develop monitoring well MW-7-4, which went “dry” after removal of approximately 2 gallons (1.5 well volumes). The groundwater generated during the development was drummed for disposal by Delphi.

GZA perform hydraulic conductivity testing using the rising head method³ and calculated the effective hydraulic conductivities for the new well. The recovery in monitoring well, MW-7-4, was slow and is reflected in its effective hydraulic conductivity which is 9.7×10^{-7} centimeters per second (cm/s). See calculation spreadsheet in Attachment 3.

The monitoring point (top of riser) of MW-7-4 was measured relative to the existing monitoring well elevations established during the previous investigations. The monitoring point elevation for MW-7-4 is 593.53 feet.

MONITORING WELL GROUNDWATER SAMPLING

As part of the August 2008 downgradient groundwater sampling, 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 used to collect the groundwater samples on August 13 and 14, 2008. The four groundwater samples collected were submitted to Free-Col Laboratories for analytical testing for VOCs via EPA Method 8260 TCL. Table 1 is a summary of the analytical results. The laboratory report is included in Attachment 4.

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.

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

EVALUATION OF POTENTIAL CAUSES OF CONTAMINATION IN MW-6-2

Delphi 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. This review consisted of the following.

- Review of historic use of TCE within Building 6; and
- Review of subsurface utility drawings for Building 6.

³ Bouwer, H. 1989. “The Bouwer and Rice Slug Test – An Update”. Groundwater Journal, Vol. 27., No. 3. May-June 1989.

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 analytical results from the previous two samples rounds collected from MW-6-2 (April 2008 and August 2008), which included a NYSDEC split sample, were either below the NYSDEC Class GA standard for TCE or were below method detection limits. Therefore, the contamination detected does not appear to be a significant concern. As mentioned above, MW-6-2 will also be resampled in October/November 2008 in conjunction with the monitored natural attenuation groundwater sampling scheduled.



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 'Chris Boron'.

Christopher Boron
Project Manager

A handwritten signature in blue ink that reads 'Ernest R. Hanna for'.

Ernest R. Hanna, P.E.
Principal

Attachment 1: Figure 1 – Downgradient Monitoring Well Locations
Table 1 – Summary of Groundwater Sample Result

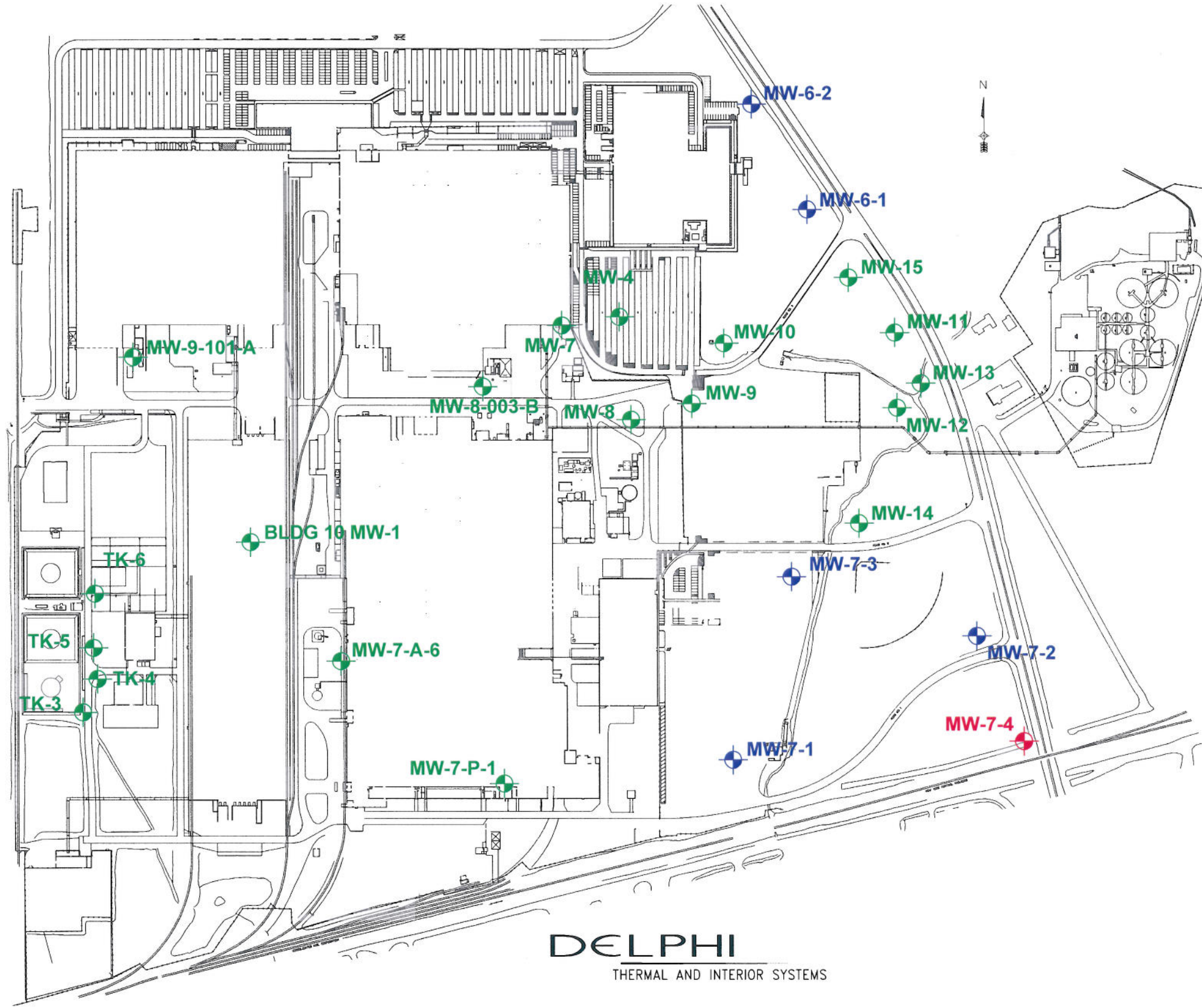
Attachment 2: MW-7-4 Boring/Monitoring Well Log

Attachment 3: Hydraulic Conductivity Calculations Spreadsheet

Attachment 4: Free Col Laboratories Analytical Report




ATTACHMENT 1

**FIGURE 1
&
TABLE 1**



DELPHI
THERMAL AND INTERIOR SYSTEMS

LEGEND:

- MW-7-4**  APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELLS INSTALLED JULY 2008
- MW-7-2**  APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELL INSTALLED NOVEMBER 2007.
- MW-11**  APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELL INSTALLED PREVIOUSLY.

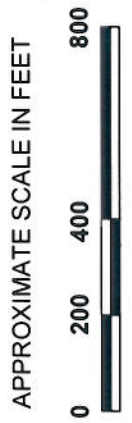
NOTES:

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: DEW

DATE: SEPTEMBER 2008

GZA GeoEnvironmental of
New York



DELPHI AUTOMOTIVE SYSTEMS
DELPHI LOCKPORT FACILITY
200 UPPER MOUNTAIN ROAD, LOCKPORT, NEW YORK
DOWNGRADIENT INVESTIGATION
DOWNGRADIENT MONITORING WELL
LOCATION PLAN

PROJECT No.
21.0056340.00

FIGURE No.
1

Table 1
 Groundwater Analytical Testing Results Summary
 Additional Downgradient Groundwater Monitoring Wells
 Delphi Lockport Complex
 Lockport, New York

Parameter	NYSDEC Class GA Criteria	MW-6-1			MW-6-2					MW-7-1		MW-7-2			MW-7-3		MW-7-4
		Aug-08	Feb-08	Nov-07	Aug-08	Apr-08	Apr-08	Feb-08	Nov-07	Feb-08	Nov-07	Aug-08	Feb-08	Nov-07	Feb-08	Nov-07	Aug-08
VOC - EPA Method 8260 TCL (ug/L)		Delphi NYSDEC															
Benzene	1										3						
1,2-Dichloroethenes (total)	5										8						
Trichloroethylene	5					4	4.2		25	56	110						
Toluene	5										7						

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.

ATTACHMENT 2

MW-7-4 BORING/MONITORING WELL LOG

Delphi Automotive
Additional Well Installation
Lockport Complex
Lockport, NY

CONTRACTOR		Earth Dimensions, Inc.		BORING LOCATION		See Location Plan	
DRILLER		Andy Morris		GROUND SURFACE ELEVATION		NA DATUM NGVD	
START DATE		7/21/2008		END DATE		7/23/2008	
GZA GEOENVIRONMENTAL REPRESENTATIVE		J. Davide					

WATER LEVEL DATA						TYPE OF DRILL RIG	
DATE	TIME	WATER	CASING	NOTES		Diedrich D-120	
8/13/2008	800	12.31	2"			6-5/8" HSA	
						2" diameter x 24" long splitspoon	
						5 7/8 Roller Bit and HQ Size Rock Core	

DEPTH	SAMPLE					SAMPLE DESCRIPTION	WELL INSTALLATION DIAGRAM	WELL INSTALLATION DESCRIPTION	O V M (ppm)
	BLOWS (/6")	NO.	DEPTH (FT)	N-VALUE /RQD %	RECOVERY (%)				
1	5	S-1	0 - 2	16	100	TOPSOIL	<p>Top of Riser Elev. = 593.53 feet Bentonite Pellets & Stickup Casing Cement/bentonite Grout from 1 to 6.6 ft. 10" Nominal diameter borehole to 5.8 feet. 4" Steel Casing to 6.6 feet. 2-inch PVC flush coupled riser pipe to 9 feet. Bentonite Chips from 6.6 to 8 ft. 2-inch PVC Screen SCH. 40, 10 slot, from 9 to 19 feet. Sand pack from 8 to 19 feet. Nominal 3" diameter rock hole 6.6 to 19 feet.</p>	ND	
	5					FILL - Light Brown Clayey SILT, trace Sand, little Gravel, moist.		ND	
2	11					Reddish Brown fine grained SAND and Silt, trace Clay, trace Gravel, moist (NATIVE). Splitspoon Refusal at 4.7 feet Auger Refusal at 5.3 feet Rollerbit to 6.6 feet		ND	
	15								
3	21	S-2	2 - 4	63	100	BEDROCK Lockport Dolomite Formation Gray, hard, very slight to slight weathering, fine grained, horizontal and low angle fractures.		ND	
	28								
	35								
4	26	S-3	4 - 4.7		50				
5	100/0.1								
6									
7		C-1	6.6 - 9.4	57	86				
8									
9									
10		C-2	9.4 - 14.4	90	98				
11									
12									
13									
14									
15		C-3	14.4 - 19.0	88	100				
16									
17									
18									
19									
20						End of boring at 19 feet bgs.			

S - Split Spoon Sample	NOTES: 1) HNu PI - 101 organic vapor meter (OVM) used to screen soil samples. Meter was calibrated to the equivalent of 100 ppm isobutylene in air. 2) OVM reading from headspace screening of soil samples.
C - Rock Core Sample	

General	1) Stratification lines represent approximate boundary between soil types; transitions may be gradual.
Notes:	2) Water level readings have been made at times and under conditions stated; fluctuations of groundwater may occur due to other factors than those present at the time measurements were made.

ATTACHMENT 3

HYDRAULIC CONDUCTIVITY CALCULATION SPREADSHEET

**Bouer & Rice Slug Test Method
Hydraulic Conductivity Calculation Worksheet**

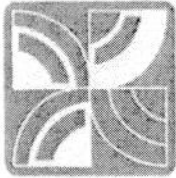
Project 21.0056340.0
Site Downgradient assessment

Date 9/10/2008
Well No MW-7-4

H =	<u>50.0</u>	feet	(aquifer thickness =>assumed)		
Le =	<u>9.0</u>	feet	(wetted screen length)		
Lw =	<u>9.0</u>	feet	(length from bottom of well to static water table)		
rw =	<u>0.250</u>	feet	(borehole radius)		
rc =	<u>0.083</u>	feet	(well radius)	if d = 2 inch, m = 0.163	
n =	<u>0.30</u>		(porosity of gravel pack)	if d = 4 inch, m = 0.653	
yo =	<u>20.62</u>	feet	(start water level)	if d = 6 inch, m = 1.469	
yt =	<u>20.40</u>	feet	(end water level)	m = <u>0.653</u>	(multiplier)
t =	<u>6.93</u>	min	(change in time)	Q = <u>0.021</u>	gpm (flowrate)
Le/rw =	<u>36.0</u>		(calculated ratio)	Q = <u>2.77E-03</u>	ft ³ /min (flowrate)
A =	<u>2.25</u>		(from plot)		
B =	<u>0.75</u>		(from plot)		
C =	<u>2.60</u>		(from plot)		
rc' =	<u>0.154</u>		(effective radius)	K = <u>1.91E-06</u>	ft/min (hydraulic conductivity)
In Re =	<u>1.832</u>		(for Lw<H)	K = <u>9.69E-07</u>	cm/sec (hydraulic conductivity)
Re =	<u>6.246</u>	feet	(for Lw<H)	T = <u>1.59E-06</u>	ft ² /sec (transmissivity)
In Re =	<u>1.251</u>		(for Lw=H)	T = <u>1.03</u>	gpd/ft (transmissivity)
Re =	<u>3.494</u>	feet	(for Lw=H)		

ATTACHMENT 4

FREE COL LABORATORIES ANALYTICAL REPORT



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

09/09/2008

Delivery Group ID: 2008:0008518

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

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

Date Received 8/15/2008
Time Received: 09:00
Delivered By: UPS

100 Lexington Ave.
Rochester, NY 14606-2810

Sample ID: 2008:0008518-1

Client's Sample ID:

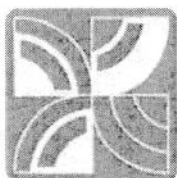
MW-7-2

Date Sampled: 8/13/2008

Time Sampled: 10:00

Date Received: 8/15/2008

Analyte	Result	Units	Date Analyzed	Time Analyzed	Analyst	Method Source
Chloromethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Bromomethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Vinyl Chloride	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Chloroethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Methylene chloride	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Acetone	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Carbon Disulfide	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Chloroform	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
2-Butanone	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
1,1,1-Trichloroethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Vinyl Acetate	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Bromodichloromethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Trichloroethene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Dibromochloromethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Benzene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B



FREE-COL LABORATORIES

11618 COTTON ROAD
MEADVILLE, PENNSYLVANIA 16335
PHONE: (814 724-6242)
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09/09/2008

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

Date Received 8/15/2008
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100 Lexington Ave.
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Sample ID: 2008:0008518-1

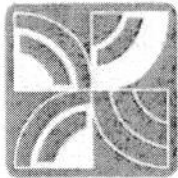
Client's Sample ID: MW-7-2

Date Sampled: 8/13/2008

Time Sampled: 10:00

Date Received: 8/15/2008

Analyte	Result	Units	Date Analyzed	Time Analyzed	Analyst	Method Source
Bromoform	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
2-Hexanone	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Tetrachloroethene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Toluene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Chlorobenzene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Ethylbenzene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Styrene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
Xylenes (total)	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.002	mg/L	08/27/08	09:39	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.002	mg/L	08/27/08	09:39	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

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Free-Col: 20-00073
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100 Lexington Ave.
Rochester, NY 14606-2810

Sample ID: 2008:0008518-5

Client's Sample ID:

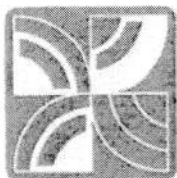
MW-7-4

Date Sampled: 8/14/2008

Time Sampled: 09:30

Date Received: 8/15/2008

Analyte	Result	Units	Date Analyzed	Time Analyzed	Analyst	Method Source
Chloromethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Bromomethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Vinyl Chloride	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Chloroethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Methylene chloride	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Acetone	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Carbon Disulfide	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Chloroform	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
2-Butanone	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
1,1,1-Trichloroethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Vinyl Acetate	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Bromodichloromethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Trichloroethene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Dibromochloromethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Benzene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.002	mg/L	08/27/08	14:12	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

09/09/2008

Delivery Group ID: 2008:0008518

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

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

Date Received: 8/15/2008
Time Received: 09:00
Delivered By: UPS

100 Lexington Ave.
Rochester, NY 14606-2810

Sample ID: 2008:0008518-5

Client's Sample ID:

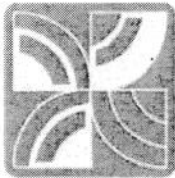
MW-7-4

Date Sampled: 8/14/2008

Time Sampled: 09:30

Date Received: 8/15/2008

Analyte	Result	Units	Date Analyzed	Time Analyzed	Analyst	Method Source
Bromoform	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
2-Hexanone	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Tetrachloroethene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Toluene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Chlorobenzene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Ethylbenzene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Styrene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
Xylenes (total)	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.002	mg/L	08/27/08	14:12	Lindquist	SW-846 8260B



FREE-COL LABORATORIES

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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

09/09/2008

Delivery Group ID: 2008:0008518

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

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

Date Received: 8/15/2008
Time Received: 09:00
Delivered By: UPS

100 Lexington Ave.
Rochester, NY 14606-2810

Sample ID: 2008:0008518-6

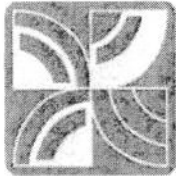
Client's Sample ID: MW-6-1

Date Sampled: 8/14/2008

Time Sampled: 11:15

Date Received: 8/15/2008

Analyte	Result	Units	Date Analyzed	Time Analyzed	Analyst	Method Source
Chloromethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Bromomethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Vinyl Chloride	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Chloroethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Methylene chloride	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Acetone	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Carbon Disulfide	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Chloroform	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
2-Butanone	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
1,1,1-Trichloroethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Vinyl Acetate	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Bromodichloromethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
1,1,2,2-Tetrachloroethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Trichloroethene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Dibromochloromethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Benzene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B



FREE-COL LABORATORIES

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FAX: (814) 333-1466
EMAIL: service@freecol.com

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

Certificate Of Analysis

09/09/2008

Delivery Group ID: 2008:0008518

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

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

Date Received: 8/15/2008
Time Received: 09:00
Delivered By: UPS

100 Lexington Ave.
Rochester, NY 14606-2810

Sample ID: 2008:0008518-6

Client's Sample ID:

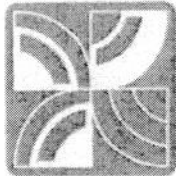
MW-6-1

Date Sampled: 8/14/2008

Time Sampled: 11:15

Date Received: 8/15/2008

Analyte	Result	Units	Date Analyzed	Time Analyzed	Analyst	Method Source
Bromoform	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
2-Hexanone	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Tetrachloroethene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Toluene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Chlorobenzene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Ethylbenzene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Styrene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
Xylenes (total)	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.002	mg/L	08/27/08	12:15	Lindquist	SW-846 8260B



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

Certificate Of Analysis

09/09/2008

Delivery Group ID: **2008:0008518**

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

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

Date Received 8/15/2008
Time Received: 09:00
Delivered By: UPS

100 Lexington Ave.
Rochester, NY 14606-2810

Sample ID:	2008:0008518-7	Client's Sample ID:	MW-6-2			
Date Sampled:	8/14/2008	Time Sampled:	12:00	Date Received:	8/15/2008	
Analyte	Result	Units	Date Analyzed	Time Analyzed	Analyst	Method Source
Chloromethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Bromomethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Vinyl Chloride	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Chloroethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Methylene chloride	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Acetone	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Carbon Disulfide	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
1,1-Dichloroethene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
1,1-Dichloroethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
1,2-Dichloroethenes (Total)	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Chloroform	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
1,2-Dichloroethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
2-Butanone	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
1,1,1-Trichloroethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Carbon Tetrachloride	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Vinyl Acetate	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Bromodichloromethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
1,1,1,2-Tetrachloroethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
1,2-Dichloropropane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
trans-1,3-Dichloropropene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Trichloroethene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Dibromochloromethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
1,1,2-Trichloroethane	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Benzene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
cis-1,3-Dichloropropene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
2-Chloroethylvinylether	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B



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

Certificate Of Analysis

09/09/2008

Delivery Group ID: 2008:0008518

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

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

Date Received: 8/15/2008
Time Received: 09:00
Delivered By: UPS

100 Lexington Ave.
Rochester, NY 14606-2810

Sample ID: 2008:0008518-7

Client's Sample ID: MW-6-2

Date Sampled: 8/14/2008

Time Sampled: 12:00

Date Received: 8/15/2008

Analyte	Result	Units	Date Analyzed	Time Analyzed	Analyst	Method Source
Bromoform	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
2-Hexanone	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
4-Methyl-2-Pentanone (MIBK)	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Tetrachloroethene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Toluene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Chlorobenzene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Ethylbenzene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Styrene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
Xylenes (total)	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
cis-1,2-Dichloroethene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B
trans-1,2-Dichloroethene	<0.002	mg/L	08/27/08	12:49	Lindquist	SW-846 8260B