

January 14, 2008  
File No. 21.0056192.10

Mr. Glenn May  
NYSDEC Region 9  
270 Michigan  
Buffalo, New York



Re: Results of November 2007  
Natural Attenuation Groundwater Sampling  
Delphi Thermal Systems Facility  
Lockport, New York  
Registry Site #932113

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Dear Mr. May:

As requested by Delphi Automotive Systems LLC (Delphi), GZA GeoEnvironmental of New York (GZA) prepared this letter report to summarize the results of our November 2007 groundwater sampling and natural attenuation parameter monitoring event at the referenced Registry Site. This work was completed in accordance with the New York State Department of Environmental Conservation (NYSDEC) approved Site Management Plan<sup>1</sup> (which includes Operation, Maintenance & Monitoring). The referenced Site Management Plan will be incorporated in a future Order on Consent to implement the NYSDEC March 2005 Record of Decision at the Registry Site.

## GROUNDWATER MONITORING & SAMPLING

Six monitoring wells (MW-7, MW-11, MW-12, MW-13, MW-14 and MW-15) were monitored and sampled (see Figure 1 for locations) on November 28-29, 2007. The natural attenuation monitoring and groundwater sampling was done using low flow sampling techniques. A peristaltic pump, disposable polyethylene tubing and a water quality meter, with flow through cell, were used to collect water quality readings and groundwater samples. The sampling technique and analytical parameters were consistent with previous sample rounds as identified in the Operational, Maintenance and Monitoring Plan (OM&M Plan), Attachment 1 of the Site Management Plan.

**Field Measured Parameters:** temperature, specific conductance, pH, turbidity, dissolved oxygen (DO) and oxidation reduction potential (ORP).

**Compounds of Concerns:** tetrachloroethylene, trichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene and vinyl chloride.

<sup>1</sup> "Site Management Plan, Delphi Thermal Systems Site, Lockport, New York, Site Number 932113" dated August 2007. Prepared for the New York State Department of Environmental Conservation, prepared by GZA GeoEnvironmental of New York. GZA File No. 21.0056192.10

**Natural Attenuation Parameters:** methane, iron, magnesium, manganese, potassium, sodium, alkalinity, total organic carbon, chloride, ammonia, nitrate, nitrite, sulfate and sulfide.



Groundwater pumping rates used during the monitoring/sampling varied at the monitoring locations in order to establish a relatively constant head during the pumping/monitoring. Once a constant head was established within the monitoring well, the flow rates were maintained throughout the monitoring/sampling period. Samples were collected for analysis when water quality readings stabilized, with a minimum of one well volume purged prior to sampling. The following table shows the volume of water and well volumes purged after a constant head was established. It should be noted that a constant head could not be established at MW-7; therefore, the monitoring well was purged dry and allowed to recharge for approximately 1.5 hours prior to sample collection.

Monitoring Well ID	Volume Purged (gallons)	Well Volumes (#)
MW-7 *	9	2.6
MW-11	3.5	1.2
MW-12	4	2.4
MW-13	4	2.5
MW-14	3	1.4
MW-15	4	2.5

Note: 1) \* = constant head could not be established during purging.

Static groundwater level measurements were made from the six monitoring wells sampled prior to purging. The groundwater elevations indicate that the groundwater flow direction was to the east, which is consistent with the flow direction from previous sampling events.

## ANALYTICAL RESULTS

Groundwater samples were collected and analyzed for compounds of concern (chlorinated compounds) and natural attenuation parameters consistent with previous sample rounds and those identified in the August 2007 Site Management Plan. Results for the compounds of concern are shown on Figure 1 along with the data from previous sample rounds. Results of the natural attenuation parameter monitoring are shown on Table 1 along with the data from previous sample rounds. The laboratory report is also attached to this letter report.

The analytical results shown on Figure 1 and Table 1 are generally consistent with previous sample rounds and indicate that natural attenuation is continuing at the Site and the groundwater plume is still in a steady state.



It should be noted that two compounds, cis-1,2-dichloroethylene (0.002 mg/L) and vinyl chloride (0.003 mg/L), were detected in the sample collected from monitoring well MW-11. The analytical results from the two previous sample rounds (2005 and 2006) were both below method detection limits. The detected concentration of cis-1,2-dichloroethylene is below its respective NYSDEC Class GA<sup>2</sup> criteria of 0.005 mg/L and the detected concentration of vinyl chloride is slightly above its respective Class GA criteria of 0.002 mg/L. GZA does not consider these detections to be significant or warrant additional work at this time.

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

Sincerely,

GZA GEOENVIRONMENTAL OF NEW YORK

Handwritten signature of Christopher Boron in blue ink.

Christopher Boron  
Project Manager

Handwritten signature of Ernest R. Hanna in blue ink.

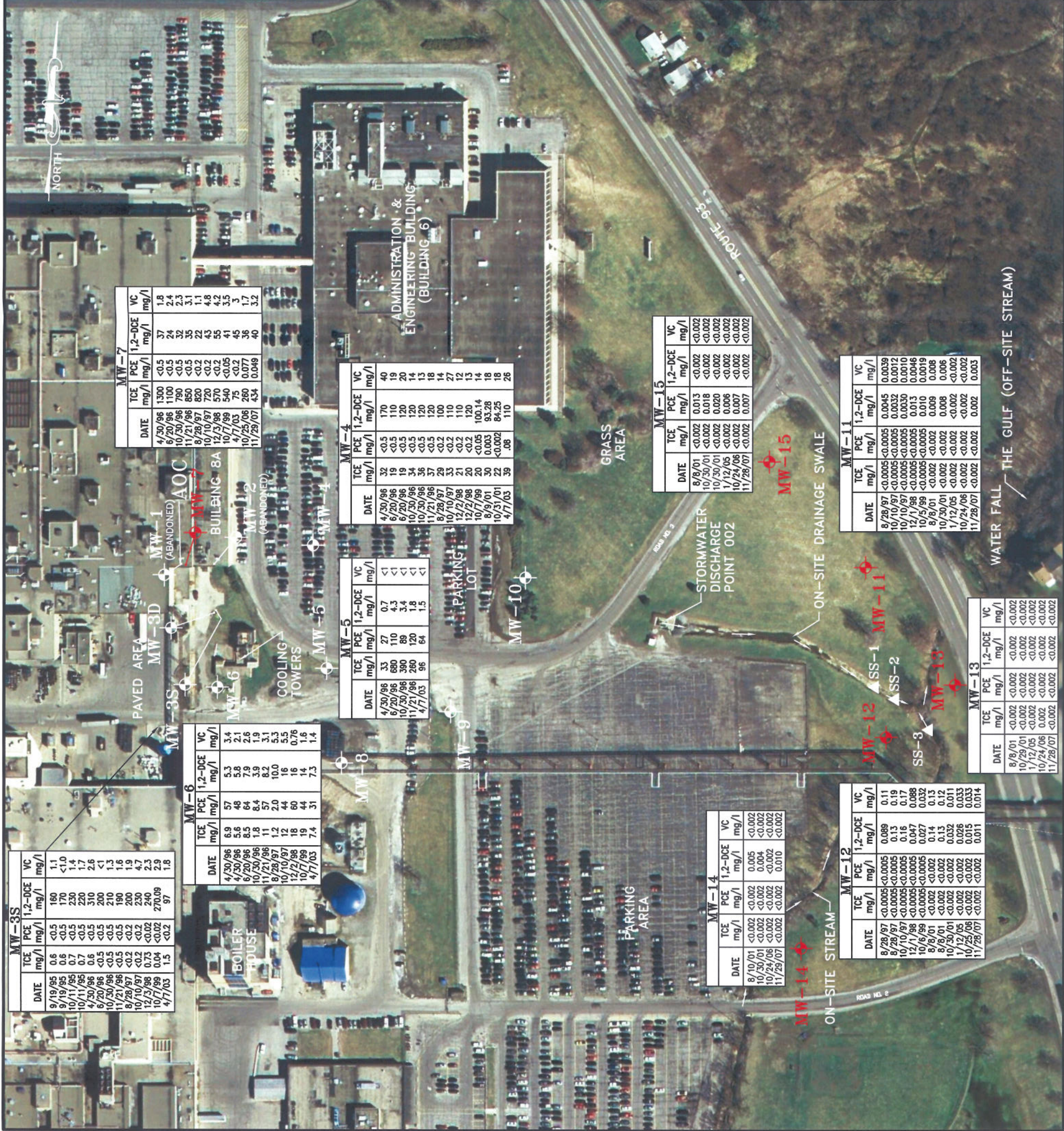
Ernest R. Hanna, P.E.  
Principal

Attachments: Figure 1 – Site Plan & Compound of Concern Analytical Data  
Table 1 – Natural Attenuation Parameter Results  
Free Col Laboratories Analytical Report

CC: Mr. Richard Eisenman (Delphi, Rochester)

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<sup>2</sup>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.



**NOTES:**

1. BASE MAP ADAPTED FROM A 2005 AERIAL PHOTOGRAPH DOWNLOADED FROM [http://www.nysgis.state.ny.us/gateway/mg/interactive\\_main.html](http://www.nysgis.state.ny.us/gateway/mg/interactive_main.html) AND SITE OBSERVATIONS.
2. ANALYTICAL TESTING WAS COMPLETED BY FREE-COL LABORATORIES, INC.
3. UNITS ARE LISTED IN MILLIGRAMS PER LITER (mg/l). (< - INDICATES COMPOUND NOT DETECTED ABOVE THE SPECIFIED DETECTION LIMIT)
4. THE SIZE AND LOCATION OF EXISTING SITE FEATURES SHOULD BE CONSIDERED APPROXIMATE.

**LEGEND:**

- MW-8 APPROXIMATE LOCATION AND DESIGNATION OF MONITORING WELL INSTALLED BY GZA
- SS-1 APPROXIMATE LOCATION AND DESIGNATION OF STREAM WATER SAMPLE
- AOC** DENOTES AREA OF CONCERN
- TCE = TRICHLOROETHENE
- PCE = TETRACHLOROETHENE
- 1,2-DCE = TRANS & CIS 1,2-DICHLOROETHENE
- VC = VINYL CHLORIDE

MW-3S			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
9/19/95	0.6	<0.5	160
9/19/95	0.6	<0.5	170
10/11/95	0.7	<0.5	230
4/30/96	0.6	<0.5	220
6/20/96	<0.5	<0.5	310
10/30/96	<0.5	<0.5	200
11/21/96	<0.5	<0.5	210
8/28/97	<0.2	<0.2	180
10/10/97	0.73	<0.02	200
12/3/98	0.04	<0.02	240
10/7/99	<0.02	<0.02	270.09
4/7/03	1.3	<0.2	97

MW-6			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
4/30/96	6.9	5.7	5.3
4/30/96	5.6	4.8	5.8
6/20/96	8.5	6.4	7.9
10/30/96	1.8	8.4	3.9
11/21/96	11	5.7	8.2
8/28/97	1.2	2.0	10.0
10/10/97	12	4.4	16
12/2/98	18	6.0	16
10/7/99	19	7.4	14
4/7/03	7.4	5.1	7.3

MW-5			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
4/30/96	33	27	0.7
6/20/96	660	110	4.3
10/30/96	390	89	3.4
11/21/96	260	120	1.8
4/7/03	96	64	1.5

MW-4			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
4/30/96	32	<0.5	170
6/20/96	19	<0.5	110
10/30/96	34	<0.5	120
10/30/96	36	<0.5	120
11/21/96	37	<0.5	120
8/28/97	29	<0.2	100
10/10/97	33	<0.2	110
12/2/98	21	<0.2	110
12/2/98	20	<0.2	120
10/7/99	20	<0.05	100.14
8/9/01	30	0.003	93.28
10/31/01	22	<0.002	84.25
4/7/03	39	.08	110

MW-7			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
4/30/96	1300	<0.5	37
6/20/96	1100	<0.5	24
10/30/96	790	<0.5	32
11/21/96	850	<0.5	35
8/28/97	820	<0.2	22
10/10/97	720	<0.2	43
12/3/98	570	<0.2	55
10/7/99	540	<0.05	41
4/7/03	75	<0.2	45
10/25/06	260	0.077	36
11/29/07	434	0.049	40

MW-15			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
8/8/01	<0.002	0.013	<0.002
10/30/01	<0.002	0.018	<0.002
1/12/05	<0.002	0.006	<0.002
10/24/06	<0.002	0.007	<0.002
11/28/07	<0.002	0.007	<0.002

MW-11			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
8/28/97	<0.0005	<0.0005	0.0045
10/10/97	<0.0005	<0.0005	0.0032
10/10/97	<0.0005	<0.0005	0.0030
12/1/98	<0.0005	<0.0005	0.0046
10/5/99	<0.0005	<0.0005	0.010
8/8/01	<0.002	<0.002	0.009
10/30/01	<0.002	<0.002	0.008
1/12/05	<0.002	<0.002	0.006
10/24/06	<0.002	<0.002	<0.002
11/28/07	<0.002	<0.002	0.002

MW-13			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
8/8/01	<0.002	<0.002	<0.002
10/29/01	<0.002	<0.002	<0.002
1/12/05	<0.002	<0.002	<0.002
10/24/06	0.002	<0.002	<0.002
11/28/07	<0.002	<0.002	<0.002

MW-14			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
8/10/01	<0.002	<0.002	0.005
10/30/01	<0.002	<0.002	0.004
10/24/06	<0.002	<0.002	<0.002
11/29/07	<0.002	<0.002	0.010

MW-12			
DATE	TCE mg/l	PCE mg/l	1,2-DCE mg/l
8/28/97	<0.0005	<0.0005	0.089
10/10/97	<0.0005	<0.0005	0.13
12/1/98	<0.0005	<0.0005	0.16
10/6/99	<0.0005	<0.0005	0.047
8/8/01	<0.002	<0.002	0.027
10/30/01	<0.002	<0.002	0.14
8/8/01	<0.002	<0.002	0.13
10/30/01	<0.002	<0.002	0.12
1/12/05	<0.002	<0.002	0.032
10/25/06	<0.002	<0.002	0.026
11/28/07	<0.002	<0.002	0.011

Table 1  
 Summary of Groundwater Field Measurements and Analytical Test Results for Natural Attenuation Parameters  
 November 2007 Groundwater Sampling  
 Delphi Thermal Systems  
 West Lockport Complex  
 Lockport, New York

Location	Sample Date	Temp. (Deg. C)	Field Parameters					Analytical Test Results - Inorganic and Miscellaneous Water Quality Parameters																			
			Specific Cond. (mS/cm)	DO (mg/l)	ORP (mv)	pH (Std Units)	Methane (mg/l)	Organic Carbon (mg/l)	Alkalinity (mg/l)	Ammonia (mg/l)	Chloride (mg/l)	Nitrate (mg/l)	Nitrite (mg/l)	Nitrate Nitrite (mg/l)	Sulfate (mg/l)	Sulfide (mg/l)	Calcium (mg/l)	Dissolved Calcium (mg/l)	Iron (mg/l)	Dissolved Iron (mg/l)	Magnesium (mg/l)	Dissolved Magnesium (mg/l)	Manganese (mg/l)	Dissolved Manganese (mg/l)	Sodium (mg/l)	Dissolved Sodium (mg/l)	Potassium (mg/l)
MW-3S	12/3/1998	15.8	1,300	1.27	-49	7.2	0.1	28	487	0.26	173	0.41	<0.05	2	0.3	238	223	7.31	6.84	35.6	31.8	1.31	1.17	67.1	66.5	5.46	4.71
MW-3S <sup>2</sup>	10/7/1999 (during purging)	16.1	1,422	0.67	-133	7.2		51	480	0.16	233			14	0.3	190	184	1.01	0.10	35.8	36.4	1.00	0.98	55.4	64.3	4.1	4.4
MW-3S <sup>2</sup>	10/7/1999 (prior to sampling)	15.8	1,254	7.8	24.3	7.0	0.007	19	354	1.23	966	0.30	<0.05	120	0.2	503	443	0.58	0.51	105	106	0.40	0.32	282	293	13.3	12.8
MW-4	12/2/1998	NA	NA	NA	NA	NA	NA	8	368	1.57	971	0.05	<0.05	120	0.2	431	335	0.59	0.52	107	100	0.39	0.34	282	306	13.2	13.5
MW-4	10/7/1999	13.8	3,412	0.08	-92.8	6.7	4.2	47	360	1.03	1010	0.11	<0.05	110	0.3	269	318	0.42	0.45	98	116	0.23	0.34	240	305	10.4	13.1
MW-4	8/9/2001	12.6	3,420	0.12	-5.1	6.5	0.12	20.2	366	1.20	1300	0.11	<0.05	190	0.2	371	107	1.01	0.77	107	116	0.54	0.34	384	305	12.7	12.7
MW-4	10/31/2001	13.8	3,444	0.10	-128.0	6.6	3.3	10.8	366	1.17	1100	<0.05	<0.05	160	1.2		102	0.46		102		0.46		358		12.3	
MW-6	12/2/1998	19.5	3,740	0.30	-67	6.8	0.84	9	319	0.45	897	0.22	<0.05	160	0.4	161	156	7.98	1.13	35.6	28.8	0.29	0.29	619	638	9.64	9.51
MW-6	10/7/1999	21.9	3,283	0.12	-145.8	7.1	0.34	30	260	0.32	476	0.09	<0.05	140	0.4	86.4	108	3.62	0.55	24	30.2	0.24	0.19	300	311	7.4	8.8
MW-7	12/3/1998	17.3	3,130	0.33	-35	7.0	0.06	36	376	1.43	944	0.29	<0.05	200	0.4	382	375	0.14	0.02	118	136	<0.01	<0.01	288	351	20.5	23.0
MW-7 <sup>3</sup>	10/7/1999	19.4	3,049	0.69	-52	7.1	0.02	58	420	1.10	1,180	0.11	<0.05	180	0.4	286	255	0.86	0.05	138	145	0.05	0.02	292	306	21.4	24.0
MW-7	10/25/2006	17.4	2,620	1.08	-92	7.1	0.06	28	376	1.33	600	<0.05	<0.05	470	<0.01			0.23		112		0.02		237		19.4	
MW-7	11/29/2007	15.5	2,162	0.83	-195	7.2	0.13	14	322	1.14	430	<0.05	<0.05	519	0.8			0.58		98.5		0.05		278		20.7	
MW-8	12/2/1998	16.7	3,210	0.90	-68	6.9	0.09	12	300	0.40	138	<0.05	<0.05	550	0.2	215	227	0.33	0.17	76	78	0.31	0.32	102	114	6.31	6.67
MW-8	10/7/1999	19.7	1,640	0.08	-116.1	7.1	0.04	19	280	0.33	144	0.10	<0.05	570	0.3	174	188	0.22	0.15	82.4	97.5	0.30	0.31	112	110	7.6	8.1
MW-9	12/2/1998	16.2	7,150	1.6	120	6.9	0.04	3	309	0.23	640	0.25	<0.05	680	<0.1	330	300	0.33	<0.01	89	84.5	1.74	0.93	444	445	5.52	5.91
MW-9	10/5/1999	18.7	4,042	0.08	103.5	6.9	0.02	24	330	0.20	963	0.46	<0.05	520	<0.1	250	283	0.20	0.02	63.8	89	1.36	0.99	476	535	4.6	26.5
MW-9 DUP	10/5/1999	NA	NA	NA	NA	NA	NA	27	340	0.14	833	0.63	<0.05	490	<0.1	252	284	0.20	0.02	72	86	1.46	0.94	478	560	5.0	5.6
MW-10	12/1/1998	14.5	4,100	0.40	-13.7	6.7	0.23	11	320	0.32	1220	0.19	<0.05	270	0.2	310	305	1.95	0.76	54.6	85.5	2.30	2.07	584	645	13.4	13.2
MW-10	10/5/1999	14.2	4,775	0.07	-2.0	6.8	0.14	24	280	0.29	1010	0.15	<0.05	240	<0.1	39.8	254	0.73	0.04	9.94	102	0.99	1.12	33.2	635	18.8	10.1
MW-10	8/9/2001	12.2	5,033	0.17	249.1	6.6	0.18	10.0	334	0.16	1700	0.08	<0.05	330	0.1	330		0.14		98.9	99.6	1.66		857	845	9.2	
MW-10	10/31/2001	14.4	3,990	0.15	90.9	6.7	0.20	3.6	336	0.12	2800	0.17	<0.05	280	1.6			0.05		92.1		0.91		720		7.6	
MW-11	12/1/1998	11.9	4,360	0.22	-271	7.6	0.01	17	275	0.58	188	0.17	<0.05	110	0.2	122	97.3	1.00	0.26	39.0	36.4	0.11	0.08	116	129	8.88	10.1
MW-11	10/5/1999	11.9	5,228	2.34	-231	7.7	0.05	20	270	0.76	192	0.05	<0.05	210	0.5	93.4	150	0.34	0.30	46.4	103	0.08	0.08	180	695	10.9	27
MW-11	8/8/2001	10.4	3,576	0.12	-73.6	7.4	<0.002	12.0	285	0.46	250	<0.05	<0.05	140	0.1	111		0.14		43.2		0.12		130		8.0	
MW-11	10/30/2001	12.0	4,126	0.04	-248.8	7.5	<0.002	3.1	265	0.46	230	<0.05	<0.05	110	2.8			0.02		38.7		0.41		120		9.1	
MW-11	10/24/2006	13.1	800	1.61	-106	7.3	0.008	1.9	341	0.12	108	0.16	<0.05	66	<0.1			0.80		30.7		0.08		85		7.6	
MW-11	11/28/2007	10.7	1,390	0.38	-309	7.2	0.008	3.0	233	0.38	410	0.18	<0.05	144	1.0			0.74		42.1		0.08		235		12.3	
MW-12	12/1/1998	13.4	2,006	0.39	-41	6.9	0.5	7	284	0.94	294	0.48	<0.05	73	0.2	119	104	7.48	4.01	26.8	25.3	4.41	4.40	183	197	4.1	3.81
MW-12	10/5/1999	15.8	1,849	0.10	-105.2	7.0	0.36	30	300	0.90	342	0.27	<0.05	66	0.2	104	126	<0.01	3.66	27.8	31.6	<0.01	4.90	166	226	4.9	5.3
MW-12	8/8/2001	13.5	3,300	0.24	-38.5	6.6	0.50	13.9	336	1.77	920	<0.05	<0.05	160	<0.1	217		16.9		57.5		8.41		427		6.3	
MW-12 DUP	8/8/2001	NA	NA	NA	NA	NA	NA	14.9	338	1.85	930	<0.05	<0.05	160	<0.1	217		14.8		56.2		8.14		433		6.0	
MW-12	10/30/2001	14.2	2,850	0.14	-127.1	6.8	0.57	5.7	309	1.35	590	0.18	<0.05	110	3.5			4.73		37.0		4.69		342		5.0	
MW-12	10/25/2006	13.7	3,500	1.26	-127.1	6.9	0.024	6.5	333	1.55	1,300	<0.05	<0.05	110	<0.1			7.50		44.8		6.02		684		4.5	
MW-12	11/28/2007	11.2	3,307	0.18	-302	7.0	0.012	4.0	274	1.47	1,300	<0.05	<0.05	79	<0.04			6.68		46.0		4.44		666		3.9	
MW-13	8/8/2001	15.4	5,742	0.23	-118.5	7.8	0.08	15.2	255	1.45	1,900	0.05	<0.05	160	<0.1	209		2.59		49.6		2.67		1,200		12.1	
MW-13	10/29/2001	15.5	6,625	0.20	-136	7.4	0.07	9.9	426	1.29	1,700	0.61	0.08	120	2.2			3.75		40.9		2.96		1,160		8.2	
MW-13	10/24/2006	15.2	6,090	2.67	-146	7.3	0.16	8.4	431	1.35	2,200	<0.05	<0.05	98	<0.1			9.21		53.7		6.03		1,210		9.1	
MW-13	11/28/2007	12.7	5,696	0.08	-274	7.3	0.003	7.0	420	1.74	2,200	<0.05	<0.05	95	0.4			7.83		50.8		4.95		1,250		9.6	
MW-14	8/8/2001	11.5	2,084	3.66	330.7	7.2	<0.002	14.1	328	0.19	680	0.08	<0.05	130	<0.1	144		0.18		64.1		0.04		394		6.4	
MW-14	10/30/2001	13.2	2,478	0.80	-39.1	7.2	0.013	4.3	334	0.31	770	<0.05	<0.05	120	2.5			0.06		64.8		0.06		466		7.3	
MW-14	10/24/2006	12.9	4,310	3.11	-60.6	7.2	0.31	3.3	336	0.25	1,700	<0.05	<0.05	88	<0.1			0.15		94.9		0.20		831		8.0	
MW-14	11/29/2007	10.3	4,402	1.27	-110	7.1	0.16	4.0	371	0.53	1,800	<0.05	<0.05	87	0.12			0.44		111		0.25		777		10.5	
MW-15	8/8/2001	13.0	2,011	0.20	289.1	6.7	<0.002	11.7	410	0.08	600	1.34	<0.05	160	0.1	281		2.33		70.4		0.46		204		4.9	
MW-15	10/30/2001	14.6	1,656																								

**FREE-COL LABORATORIES**

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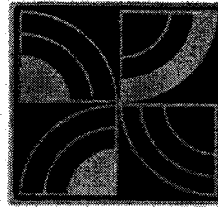
11618 Cotton Road

Meadville, PA 16335

Phone: (814) 724-6242

FAX: (814) 333-1466

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**Delphi Energy & Engine**

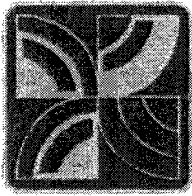
**Delphi Thermal Systems**

**SAMPLE DATE(S)**

11/28/07

**P.O. 460016825**

Report Reviewed and approved by:



# FREE-COL LABORATORIES

11618 COTTON ROAD  
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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

Delivery Group ID: 2007:0013213

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

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

Date Received 11/29/2007  
Time Received: 09:15  
Delivered By: UPS

P.O. Box 92700  
Rochester NY 14692

P.O. 460016825

Project Name: Delphi Thermal Systems

Printed on 12/26/2007 at 10:55AM

Sample ID: 2007:0013213-1 Client's Sample ID: MW-11  
Date Sampled: 11/28/2007 Time Sampled: 11:00 Date Received: 11/29/2007

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
<b>Prep Group</b>						
Prep: 3005A Met Total Rec			12/07/07	07:30	Swift	SW-846 3005A
<b>Organics</b>						
cis-1,2-Dichloroethylene	0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Methane	0.008	mg/L	12/11/07	10:52	Williams	In House
Tetrachloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Vinyl chloride	0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
<b>Metals</b>						
Iron ( Fe )	0.74	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Magnesium ( Mg )	42.1	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Manganese ( Mn )	0.08	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Potassium ( K )	12.3	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Sodium ( Na )	235	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
<b>General Chemistry</b>						
Alkalinity (as CaCO3)	230	mg/L	11/30/07	18:00	Bleicher	SM 2320 B
Total Organic Carbon	3.0	mg/L	12/06/07			SW-846 9060
Chloride	410	mg/L	12/05/07	12:00	Oddo	EPA 325.3
Nitrogen, Ammonia	0.37	mg/L	12/05/07	12:00	Cooley	EPA 350.2
Nitrogen, Nitrate	0.16	mg/L	12/07/07	08:00	Oddo	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	11/29/07	19:30	Bleicher	EPA 353.2
Sulfate	144	mg/L	12/03/07	12:00	Oddo	SW-846 9038
Sulfide, Direct	1.0	mg/L	12/04/07	08:00	Buttray	EPA 376.1

Metal analyses were performed by Modern Industries Inc., Erie, PA.  
Total Organic Carbon analysis was performed by Analytical Services, Inc.



# FREE-COL LABORATORIES

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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: 2007:0013213

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

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

Date Received 11/29/2007

Time Received: 09:15

Delivered By: UPS

P.O. Box 92700  
Rochester NY 14692

P.O. 460016825

Project Name: Delphi Thermal Systems

Printed on 12/26/2007 at 10:55AM

Sample ID: 2007:0013213-2

Client's Sample ID: MW-15

Date Sampled: 11/28/2007 Time Sampled: 12:40

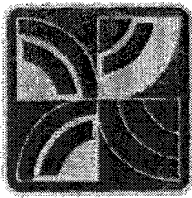
Date Received: 11/29/2007

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
<b>Prep Group</b>						
Prep: 3005A Met Total Rec			12/07/07	07:30	Swift	SW-846 3005A
<b>Organics</b>						
cis-1,2-Dichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Methane	<0.002	mg/L	12/11/07	10:52	Williams	In House
Tetrachloroethylene	0.007	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Vinyl chloride	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
<b>Metals</b>						
Iron ( Fe )	0.14	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Magnesium ( Mg )	71.7	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Manganese ( Mn )	0.39	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Potassium ( K )	4.9	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Sodium ( Na )	455	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
<b>General Chemistry</b>						
Alkalinity (as CaCO3)	346	mg/L	11/30/07	18:00	Bleicher	SM 2320 B
Total Organic Carbon	2.0	mg/L	12/06/07			SW-846 9060
Chloride	1100	mg/L	12/05/07	12:00	Oddo	EPA 325.3
Nitrogen, Ammonia	1.03	mg/L	12/05/07	12:00	Cooley	EPA 350.2
Nitrogen, Nitrate	<0.05	mg/L	12/07/07	08:00	Oddo	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	11/29/07	19:30	Bleicher	EPA 353.2
Sulfate	74	mg/L	12/03/07	12:00	Oddo	SW-846 9038
Sulfide, Direct	<0.04	mg/L	12/04/07	08:00	Buttray	EPA 376.1

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

Total Organic Carbon analysis was performed by Analytical Services, Inc.





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

## Certificate Of Analysis

Delivery Group ID: 2007:0013213

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

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

Date Received 11/29/2007  
Time Received: 09:15  
Delivered By: UPS

P.O. Box 92700  
Rochester NY 14692

P.O. 460016825

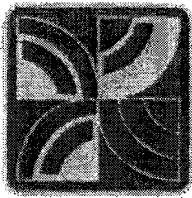
Project Name: Delphi Thermal Systems

Printed on 12/26/2007 at 10:55AM

Sample ID: 2007:0013213-3 Client's Sample ID: MW-12  
Date Sampled: 11/28/2007 Time Sampled: 14:00 Date Received: 11/29/2007

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
<b>Prep Group</b>						
Prep: 3005A Met Total Rec			12/07/07	07:30	Swift	SW-846 3005A
<b>Organics</b>						
cis-1,2-Dichloroethylene	0.011	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Methane	0.012	mg/L	12/11/07	10:52	Williams	In House
Tetrachloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Vinyl chloride	0.014	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
<b>Metals</b>						
Iron ( Fe )	6.68	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Magnesium ( Mg )	46.0	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Manganese ( Mn )	4.44	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Potassium ( K )	3.9	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Sodium ( Na )	666.	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
<b>General Chemistry</b>						
Alkalinity (as CaCO3)	274	mg/L	11/30/07	18:00	Bleicher	SM 2320 B
Total Organic Carbon	4.0	mg/L	12/06/07			SW-846 9060
Chloride	1300	mg/L	12/05/07	12:00	Oddo	EPA 325.3
Nitrogen, Ammonia	1.47	mg/L	12/05/07	12:00	Cooley	EPA 350.2
Nitrogen, Nitrate	<0.05	mg/L	12/07/07	08:00	Oddo	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	11/29/07	19:30	Bleicher	EPA 353.2
Sulfate	79	mg/L	12/03/07	12:00	Oddo	SW-846 9038
Sulfide, Direct	<0.04	mg/L	12/04/07	08:00	Buttray	EPA 376.1

Metal analyses were performed by Modern Industries Inc., Erie, PA.  
Total Organic Carbon analysis was performed by Analytical Services, Inc.



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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: 2007:0013213

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

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

Date Received 11/29/2007  
Time Received: 09:15  
Delivered By: UPS

P.O. Box 92700  
Rochester NY 14692

P.O. 460016825

Project Name: Delphi Thermal Systems

Printed on 12/26/2007 at 10:55AM

Sample ID: 2007:0013213-4 Client's Sample ID: MW-13  
Date Sampled: 11/28/2007 Time Sampled: 15:15 Date Received: 11/29/2007

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
<b>Prep Group</b>						
Prep: 3005A Met Total Rec			12/07/07	07:30	Swift	SW-846 3005A
<b>Organics</b>						
cis-1,2-Dichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Methane	0.003	mg/L	12/11/07	10:52	Williams	In House
Tetrachloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Vinyl chloride	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
<b>Metals</b>						
Iron ( Fe )	7.83	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Magnesium ( Mg )	50.8	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Manganese ( Mn )	4.95	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Potassium ( K )	9.6	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Sodium ( Na )	1250	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
<b>General Chemistry</b>						
Alkalinity (as CaCO3)	420	mg/L	11/30/07	18:00	Bleicher	SM 2320 B
Total Organic Carbon	7.0	mg/L	12/06/07			SW-846 9060
Chloride	2200	mg/L	12/05/07	12:00	Oddo	EPA 325.3
Nitrogen, Ammonia	1.74	mg/L	12/05/07	12:00	Cooley	EPA 350.2
Nitrogen, Nitrate	0.05	mg/L	12/07/07	08:00	Oddo	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	11/29/07	19:30	Bleicher	EPA 353.2
Sulfate	95	mg/L	12/03/07	12:00	Oddo	SW-846 9038
Sulfide, Direct	0.4	mg/L	12/04/07	08:00	Buttray	EPA 376.1

Metal analyses were performed by Modern Industries Inc., Erie, PA.  
Total Organic Carbon analysis was performed by Analytical Services, Inc.



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

## Certificate Of Analysis

Delivery Group ID: 2007:0013213

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

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

Date Received 11/29/2007  
Time Received: 09:15  
Delivered By: UPS

P.O. Box 92700  
Rochester NY 14692

P.O. 460016825

Project Name: Delphi Thermal Systems

Printed on 12/26/2007 at 10:55AM

Sample ID: 2007:0013213-5 Client's Sample ID: Dup-1  
Date Sampled: 11/28/2007 Time Sampled: Date Received: 11/29/2007

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
<b>Prep Group</b>						
Prep: 3005A Met Total Rec			12/07/07	07:30	Swift	SW-846 3005A
<b>Organics</b>						
cis-1,2-Dichloroethylene	0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Methane	0.007	mg/L	12/11/07	10:52	Williams	In House
Tetrachloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Trichloroethylene	<0.002	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
Vinyl chloride	0.003	mg/L	11/29/07	22:10	Perrine	SW-846 8260B
<b>Metals</b>						
Iron ( Fe )	0.73	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Magnesium ( Mg )	39.4	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Manganese ( Mn )	0.08	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Potassium ( K )	11.0	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Sodium ( Na )	211	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
<b>General Chemistry</b>						
Alkalinity (as CaCO3)	233	mg/L	11/30/07	18:00	Bleicher	SM 2320 B
Total Organic Carbon	3.0	mg/L	12/06/07			SW-846 9060
Chloride	410	mg/L	12/05/07	12:00	Oddo	EPA 325.3
Nitrogen, Ammonia	0.38	mg/L	12/05/07	12:00	Cooley	EPA 350.2
Nitrogen, Nitrate	0.18	mg/L	12/07/07	08:00	Oddo	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	11/29/07	19:30	Bleicher	EPA 353.2
Sulfate	102	mg/L	12/03/07	12:00	Oddo	SW-846 9038
Sulfide, Direct	0.6	mg/L	12/04/07	08:00	Buttray	EPA 376.1

Metal analyses were performed by Modern Industries Inc., Erie, PA.  
Total Organic Carbon analysis was performed by Analytical Services, Inc.  
CC: GZA



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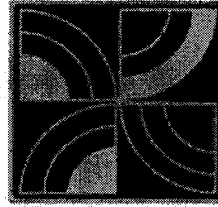
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FAX: (814) 333-1466

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MATERIALS RESEARCH  
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STATE CERTIFIED  
AIHA CERTIFIED

Delphi Energy & Engine

Delphi Thermal Systems

SAMPLE DATE(S)

11/20/07

P.O. 460016825

Report Reviewed and approved by:

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**FREE-COL LABORATORIES**  
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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: 2007:0013303**

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

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

Date Received 12/1/2007  
 Time Received: 09:00  
 Delivered By: UPS

P.O. Box 92700  
 Rochester NY 14692

P.O. 460016825

Project Name: Delphi Thermal Systems

Printed on 12/26/2007 at 11:02AM

Sample ID: 2007:0013303-1 Client's Sample ID: MW-14  
 Date Sampled: 11/29/2007 Time Sampled: 12:00 Date Received: 12/1/2007

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
<b><u>Prep Group</u></b>						
Prep: 3005A Met Total Rec			12/07/07	07:30	Swift	SW-846 3005A
<b><u>Organics</u></b>						
cis-1,2-Dichloroethylene	0.010	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
trans-1,2-Dichloroethylene	<0.002	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
Methane	0.16	mg/L	12/11/07	10:52	Williams	In House
Tetrachloroethylene	<0.002	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
Trichloroethylene	<0.002	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
Vinyl chloride	<0.002	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
<b><u>Metals</u></b>						
Iron ( Fe )	0.44	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Magnesium ( Mg )	111	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Manganese ( Mn )	0.25	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Potassium ( K )	10.5	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Sodium ( Na )	777	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
<b><u>General Chemistry</u></b>						
Alkalinity (as CaCO3)	371	mg/L	12/09/07	12:00	Bleicher	SM 2320 B
Total Organic Carbon	4.0	mg/L	12/11/07			SW-846 9060
Chloride	1800	mg/L	12/05/07	12:00	Oddo	EPA 325.3
Nitrogen, Ammonia	0.53	mg/L	12/11/07	12:00	Oddo	EPA 350.2
Nitrogen, Nitrate	<0.05	mg/L	12/07/07	08:00	Oddo	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	12/01/07	10:00	Davis	EPA 353.2
Sulfate	87	mg/L	12/12/07	11:30	Cooley	SW-846 9038
Sulfide, Direct	0.12	mg/L	12/04/07	08:00	Buttray	EPA 376.1

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

Total Organic Carbon analysis was performed by Summit Environmental Technologies, Inc.



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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: 2007:0013303

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

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

Date Received 12/1/2007  
Time Received: 09:00  
Delivered By: UPS

P.O. Box 92700  
Rochester NY 14692

P.O. 460016825

Project Name: Delphi Thermal Systems

Printed on 12/26/2007 at 11:02AM

Sample ID: 2007:0013303-2 Client's Sample ID: MW-7  
Date Sampled: 11/29/2007 Time Sampled: 16:45 Date Received: 12/1/2007

Analyte	Result	Units	Date Analyzed	Start Time	Analyst	Method Source
<b><u>Prep Group</u></b>						
Prep: 3005A Met Total Rec			12/07/07	07:30	Swift	SW-846 3005A
<b><u>Organics</u></b>						
cis-1,2-Dichloroethylene	39.5	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
trans-1,2-Dichloroethylene	0.39	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
Methane	0.13	mg/L	12/11/07	10:52	Williams	In House
Tetrachloroethylene	0.049	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
Trichloroethylene	434	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
Vinyl chloride	3.2	mg/L	12/04/07	14:57	Perrine	SW-846 8260B
<b><u>Metals</u></b>						
Iron ( Fe )	0.58	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Magnesium ( Mg )	98.5	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Manganese ( Mn )	0.05	mg/L	12/12/07	17:00	Kozakovsky	SW-846 6010B
Potassium ( K )	20.7	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
Sodium ( Na )	278	mg/L	12/07/07	19:00	Kozakovsky	SW-846 6010B
<b><u>General Chemistry</u></b>						
Alkalinity (as CaCO3)	322	mg/L	12/09/07	12:00	Bleicher	SM 2320 B
Total Organic Carbon	14.0	mg/L	12/11/07			SW-846 9060
Chloride	430	mg/L	12/05/07	12:00	Oddo	EPA 325.3
Nitrogen, Ammonia	1.14	mg/L	12/11/07	12:00	Oddo	EPA 350.2
Nitrogen, Nitrate	<0.05	mg/L	12/07/07	08:00	Oddo	EPA 353.2
Nitrogen, Nitrite	<0.05	mg/L	12/01/07	10:00	Davis	EPA 353.2
Sulfate	519	mg/L	12/12/07	11:30	Cooley	SW-846 9038
Sulfide, Direct	0.8	mg/L	12/04/07	08:00	Buttray	EPA 376.1

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

Total Organic Carbon analysis was performed by Summit Environmental Technologies, Inc.

# CHAIN OF CUSTODY RECORD

Page 1 of 1

FREE-COL LABORATORIES, Division of Modern Ind.



11618 COTTON ROAD  
MEADVILLE, PA 16335

814 724 - 6242

814 333 - 1466 Fax

Website: www.free-col.com

1 CLIENT INFORMATION		2 SAMPLE REPORTING INFORMATION	
COMPANY	DELPHI THERMAL / COZA	Check all that apply	Sample Type
CONTACT	CHRIS GORDON (COZA)	NORMAL	Wastewater:
ADDRESS	535 WASHINGTON ST 11th Floor	Rush (Specify)	DRINKING WATER:
CITY	BUFFALO	QA/QC	PWSID #:
STATE	NY	Due Date	Location:
PHONE	716-685-2800	Fax Data	Entry Point #:
PURCHASE ORDER NUMBER		Non-Compliance	Sampling Frequency (Circle One):
CLIENT #		Compliance	Quarterly/Monthly/Annual
			Check Sample: Yes / No

DATE	TIME	SAMPLE IDENTIFICATION	FOR FREE-COL USE ONLY FREE-COL ID	RESULTS	ANALYSIS REQUESTED/COMMENTS (If composite, please use inclusive dates and times.)	
					GRAB/COMP	
11/29/07	1200	MW-14	13003-1			CO <sub>2</sub> , Fe, Pb, Mn, Ni, NO <sub>2</sub> , NO <sub>3</sub> , NH <sub>3</sub> , N <sub>2</sub> , Sulfate, Sulfide, + Vol's (P/E), TCE, Cr <sub>6</sub> - 1, 2 - D. EGANSENTHYME, TRANS-1,2-DICHLOROBENZENE, V. CHLORIDE.
"	1645	MW-7	2			"
"	840	MW-7-2	3			TEL VOL'S
"	1000	MW-7-3	4			"
"	1625	MW-6-2	5			"
12/20		TRIP BANK	6			"

6 SAMPLE TRACEABILITY		USE BY LABORATORY ONLY	
Date Received	SIGNATURE	Date	Time
11/29/07	[Signature]	12/19/07	12:19:00
12/28	[Signature]		
		Samples received at lab	YES NO
		Means of delivery to lab	YES NO
		Sample cooler temp. upon receipt	(deg. C) 12.1
		Sample check in started	Completed 12.1.07
		Analyst	Date Run
		Reviewed by	Date
		Worksheet Number	

not to be used for compliance purposes